Base Load Power Hub (BLPH)

WELDING REGISTER & PT REPORTS - PIPING

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Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
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1 INTRODUCTION AND INSTRUCTIONS FOR USE

This dossier compiles the Dye Penetrant Testing (PT) reports and related certificates for the piping components supplied within the BLPH project. It has been organized to support both structured navigation and efficient, targeted retrieval of information.

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

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3 WELDING REGISTER – PT

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

1. SCOPE/SCOPO

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

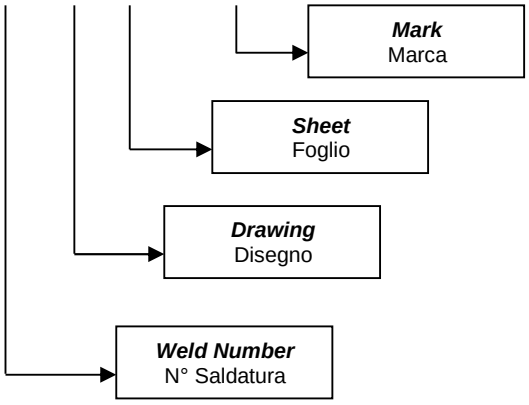
La seguente istruzione fornisce chiarimenti utili per la lettura della stampa del registro saldature relativamente ad identificazione delle saldature, punzoni saldatori, controlli, ecc.
Inoltre, fornisce una chiave di lettura relativamente ad alcuni codici indicati sui report dei Controlli Non Distruttivi.

2. ROSETTI WELDS/SALDATURE ROSETTI

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

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

7 / 178 / 1 / DJA006



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

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

3. ATTACHMENTS/ALLEGATI

1A *Structural drawing* / Disegno Strutturale

1B *Piping drawing* / Disegno Piping

2 *Welding register* / Registro saldature

3 *Code description* / Descrizione codici

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

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

Dye penetrent / Liquidi penetranti

Magnetic particle / Particelle magnetiche

Ultrasonic / Ultrasuoni

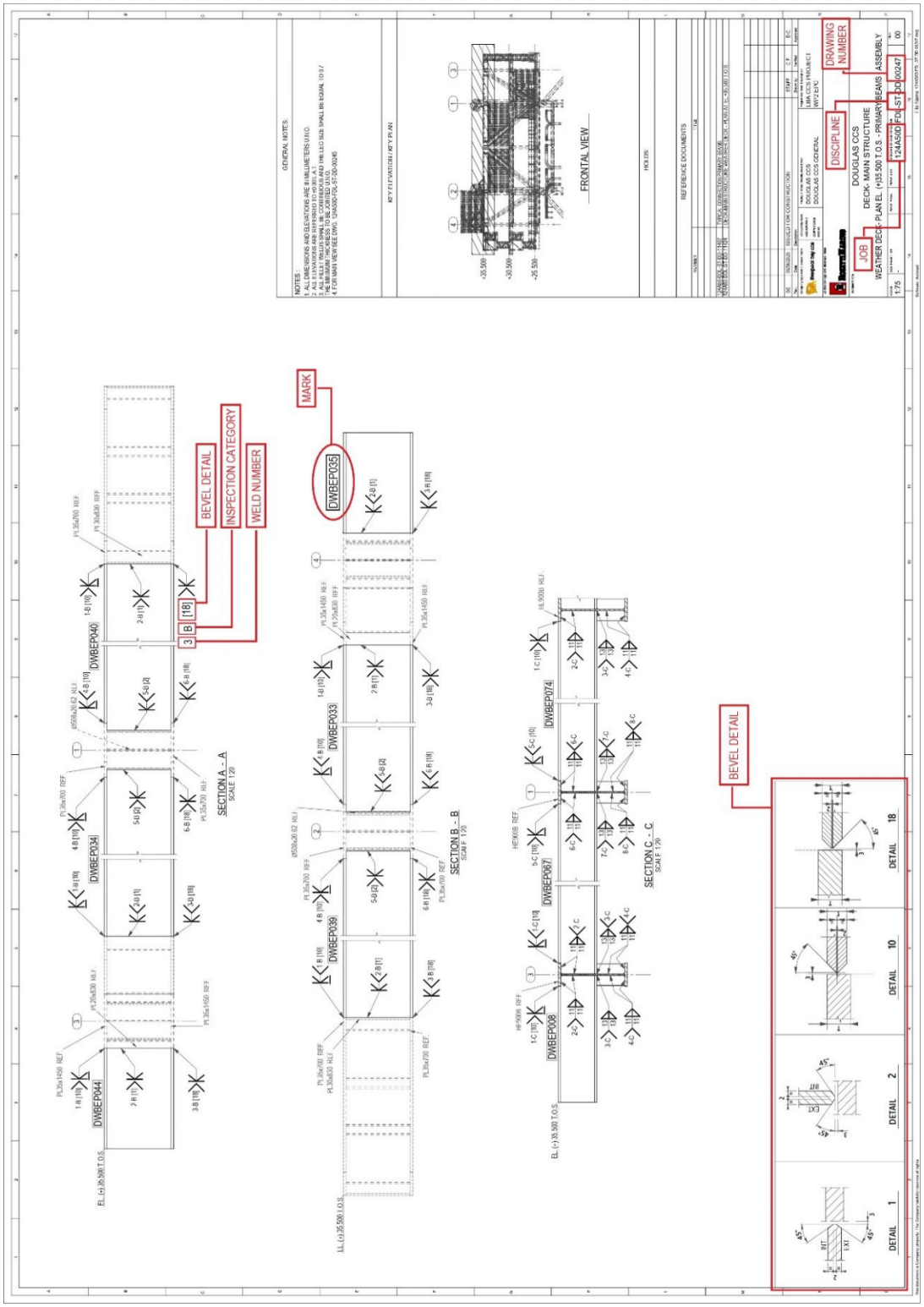
Radiographic / Radiografico

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

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

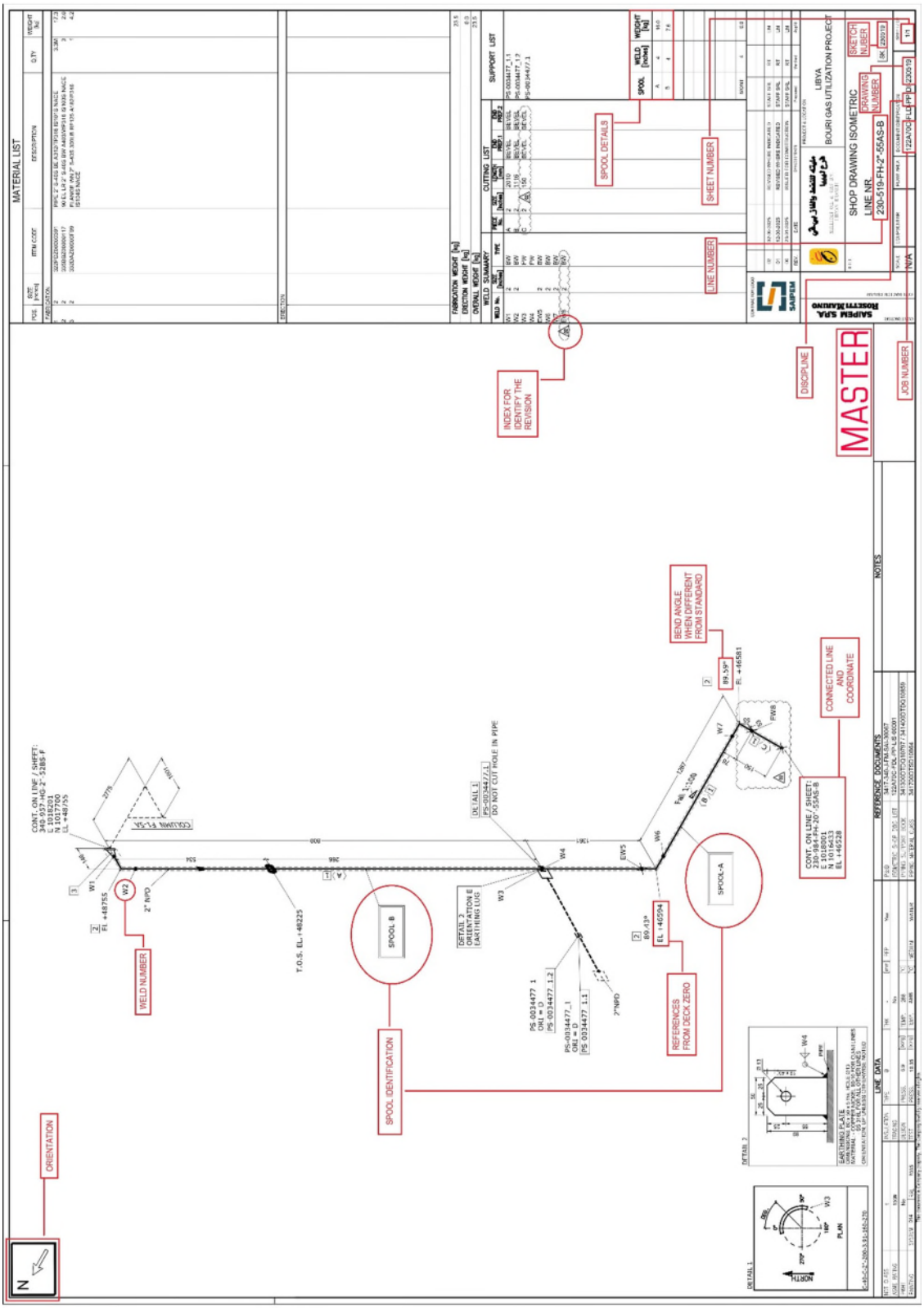
ATTACHMENT 1A

Structural Drawing



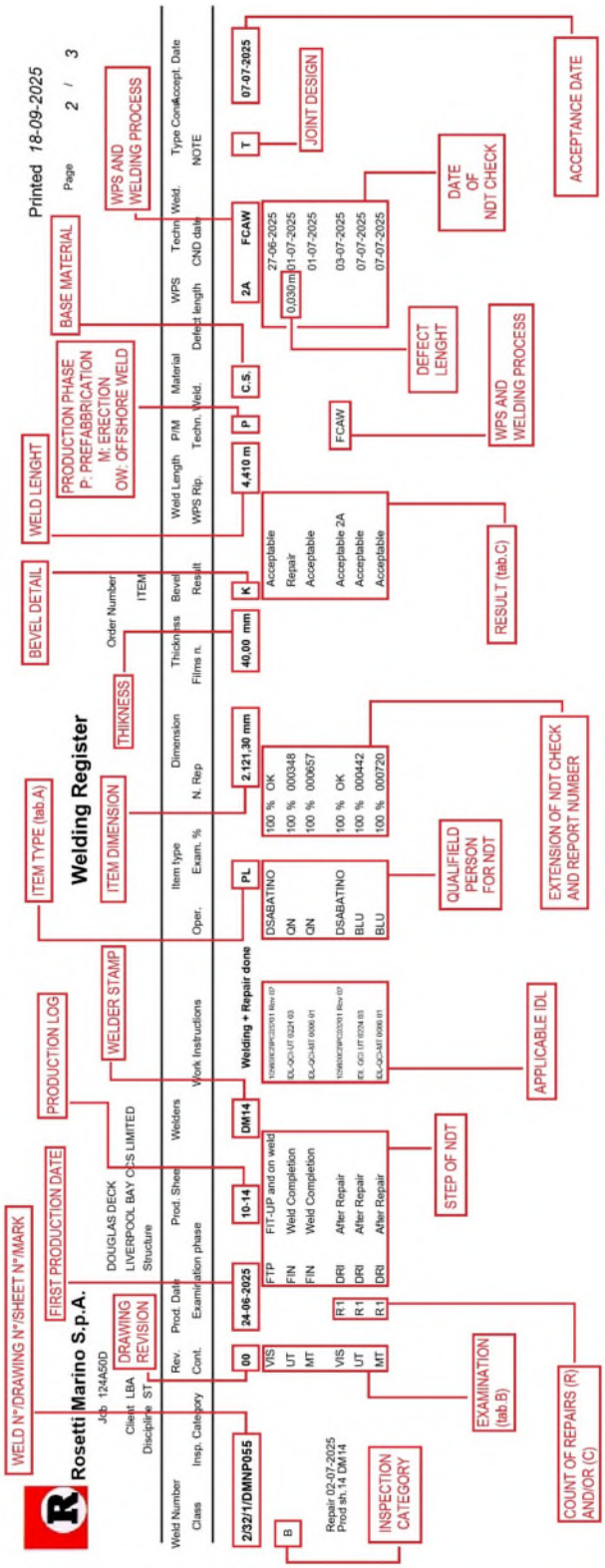
ATTACHMENT 1B

Piping Drawing



ATTACHMENT 2

Welding Register



ATTACHMENT 3

Code Description

Tab. A Item type

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

Tab. B Non Destructive Test type

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

Tab C. NDT Result

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

Tab. D Indication type

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

ATTACHMENT 4

Report Dye Penetrant Test

ROSETTI MARINO Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

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

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

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

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

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

CONDIZIONI DI VISIONE / Viewing conditions

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

STATO DELLA SUPERFICIE / Surface condition

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

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

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

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

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

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

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

REPORTS NUMBER & WELD TRACEABILITY

NOTE / Remarks

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

OD-QCI-37 Rev. 2020-00

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Report Magnetic Test

ROSETTI MARINO Group of Companies

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

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

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

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

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

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

CONDIZIONI DI VISIONE / Viewing conditions

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

STATO DELLA SUPERFICIE / Surface condition

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

TECNICA DI MAGNETIZZAZIONE / Magnetization technique

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

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

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

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

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

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

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

OGGETTO CONTROLLATO / Object tested

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

REPORTS NUMBER & WELD TRACEABILITY

NOTE / Remarks

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

MOD-QCI-36 2020-00

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Report Ultrasonic Test

ROSETTI MARINO Group of Companies

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

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

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

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

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

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

STATO SUPERFICIALE / Surface condition

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

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

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

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

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

OGGETTO CONTROLLATO / Tested object

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

REPORTS NUMBER & WELD TRACEABILITY

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

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

MOD-QCI-34 Rev. 2020-00

Report Radiographic Test

ROSETTI MARINO Group of Companies

NDT ACTIVITIES - TEST REPORT

RAPPORTO DI ESAME RADIOGRAFICO
RADIOGRAPHIC TEST REPORT

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

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

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

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

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

RADIOGRAPHIC TECHNIQUE DETAILS

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

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

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

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

OGGETTO CONTROLLATO / Tested object

COMPONENTE / Item: ITEM

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

REPORT NUMBER & WELD TRACEABILITY

NOTE / Remarks

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

Riccardo Partisani
II Level VT-MT-PT-RT
ISO 9712/SNT-TC-1A
Operator: Partisani Riccardo

14 AGO. 2025

MOD-QCI-33 2019-00

ATTACHMENT 5

Report Ultrasonic Test with indication

ROSETTI MARINO Group of Companies

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

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

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

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

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

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

STATO SUPERFICIALE / Surface condition

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

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

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

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

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

OGGETTO CONTROLLATO / Tested object

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

REPORTS NUMBER & WELD TRACEABILITY

RESULT REPAIR

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

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

MOD-QCI-34 Rev. 2020-00

Continued on the second page with the detail of the indication

Indication report

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

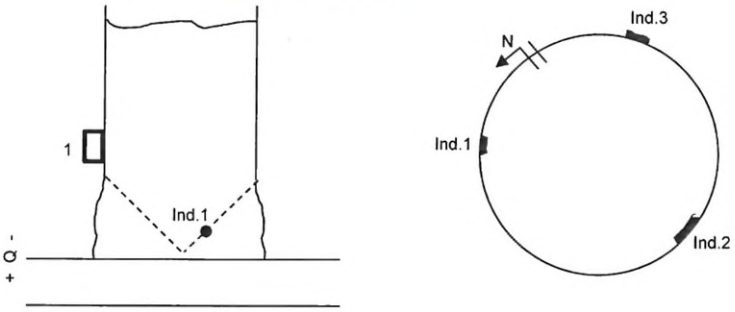
SCHIZZO - Sketch

Scanning Position

1 ☒ 60°
2 ☐
3 ☐
4 ☐
5 ☐
6 ☐
7 ☐

2/DCNP020/ W1 — WELD REFERENCE

CERTIFICATE REFERENCE



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

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

Note:

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

MOD-QCI-34 2020-00

4 PT REPORTS

Welding Register

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

Rosetti Marino S.p.A.

Welding Register

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

Weld Number	Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.	Defect length	CND date	NOTE		
3/1/1/FLOWCELL		**01**	**04-11-2024**	**66**	**AZ39**		**FWN**	**2,00 in**	**9,27 mm**	**1/2V**	**0,189 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**06-11-2024**
1	LP	FIN	Weld Completion		IDL-QCI-LP 0002 01	BV	100 %	000039		Acceptable				06-11-2024			
4/1/1/FLOWCELL		**01**	**04-11-2024**	**66**	**AZ39**		**FWN**	**2,00 in**	**9,27 mm**	**1/2V**	**0,189 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**06-11-2024**
1	LP	FIN	Weld Completion		IDL-QCI-LP 0002 01	BV	100 %	000040		Acceptable				06-11-2024			
5/1/1/FLOWCELL		**01**	**04-11-2024**	**66**	**AZ39**		**PL**	**142,00 mm**	**3,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**06-11-2024**
1	LP	FIN	Weld Completion		IDL-QCI-LP 0002 01	BV	100 %	000041		Acceptable				06-11-2024			

Totals per DWG	**1**	**Prefabrication**	**0,43 m**	**3 Nr. Welds**	**4,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,43 m**	**3 Nr. Welds**	**4,00 inch**
		Accepted	**0,43 m**	**3 Nr. Welds**	**4,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
1/2/1/_		**01**	**08-01-2025**	**124-156**	**AX 453**		**PIPE**	**2,00 in**	**2,77 mm**	**V**	**0,189 m**	**M**	**S.S.**	**C1A**	**GTAW**	**BW**	**10-02-2025**	
					AX410	**After Cutting**												
01HSS	1	LP	C1	DTA After Cutting	IDL-QCI-LP 0002 01	ROM	100 %	000047		Acceptable					10-02-2025			
13/2/2/_		**01**	**19-12-2024**	**98-122-156**	**AX84**		**ELB**	**2,00 in**	**2,77 mm**	**V**	**0,189 m**	**M**	**S.S.**	**C1A**	**GTAW**	**BW**	**10-02-2025**	
					AX 453	**After Cutting**												
					AX410	**After Cutting**												
01HSS	1	LP	C2	DTA After Cutting	IDL-QCI-LP 0002 01	ROM	100 %	000050		Acceptable					10-02-2025			

Totals per DWG	**2**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Erection	**0,38 m**	**2 Nr. Welds**	**4,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,38 m**	**2 Nr. Welds**	**4,00 inch**
		Accepted	**0,38 m**	**2 Nr. Welds**	**4,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
5/3/1/_		**02**	**08-10-2024**	**25**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**3**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
3/4/1/_		**00**	**08-10-2024**	**25-32**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-01-2025**	**A**
					AX84	**After Cutting**												
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								
		LP	C 1 DTA	After Cutting			10 %											

Totals per DWG	**4**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
1/5/1/_		**01**	**16-01-2025**	**143-156**	**AX 453**	**Welding + Repair done**	**PIPE**	**1,00 in**	**3,38 mm**	**V**	**0,104 m**	**M**	**S.S.**	**C1A**	**GTAW**	**BW**	**10-02-2025**	
03HSS	1	LP	C1 DTA	After Cutting	IDL-QCI-LP 0002 01	ROM	100 %	000048		Acceptable					10-02-2025			
8/5/1/_		**01**	**03-10-2024**	**27-111-156**	**AZ53**		**FWN**	**1,00 in**	**3,38 mm**	**V**	**0,104 m**	**M**	**S.S.**	**C1A**	**GTAW**	**BW**	**10-02-2025**	
					AX416	**After Cutting**												
					AX 453	**After Cutting**												
03HSS	1	LP	C2 DTA	After Cutting	IDL-QCI-LP 0002 01	ROM	100 %	000049		Acceptable					10-02-2025			

Totals per DWG	**5**	**Prefabrication**	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Erection	**0,20 m**	**2 Nr. Welds**	**2,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,20 m**	**2 Nr. Welds**	**2,00 inch**
		Accepted	**0,20 m**	**2 Nr. Welds**	**2,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/6/1/_		**01**	**01-10-2024**	**25**	**AZ39**		**PAD**	**168,00 mm**	**3,40 mm**	**FILL**	**0,528 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**C**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000006		Acceptable					09-10-2024			

Totals per DWG	**6**	**Prefabrication**	**0,53 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,53 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,53 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/7/1/_		**00**	**08-10-2024**	**25**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**7**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
12/9/1/_		**02**	**31-10-2024**	**60**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000034		Acceptable					05-11-2024			

Totals per DWG	**9**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
12/10/1/_		**02**	**31-10-2024**	**60**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000035		Acceptable					05-11-2024			

Totals per DWG	**10**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
12/11/1/_		**02**	**04-11-2024**	**62**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**06-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000037		Acceptable					06-11-2024			

Totals per DWG	**11**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
13/12/1/_		**02**	**29-10-2024**	**58**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000032		Acceptable					05-11-2024			

Totals per DWG	**12**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
13/13/1/_		**02**	**29-10-2024**	**58**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000033		Acceptable					05-11-2024			

Totals per DWG	**13**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
13/14/1/_		**02**	**04-11-2024**	**62**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**06-11-2024**	**C**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000038		Acceptable					06-11-2024			

Totals per DWG	**14**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/18/1/_		**01**	**01-10-2024**	**22**	**AZ52**		**PAD**	**114,30 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000003		Acceptable					09-10-2024			

Totals per DWG	**18**	**Prefabrication**	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/19/1/_		**01**	**31-10-2024**	**60**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000036		Acceptable					05-11-2024			

Totals per DWG	**19**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
27/26/2/_		**00**	**23-09-2024**	**17-76**	**AZ39**		**PIPE**	**1,50 in**	**3,68 mm**	**1/2V**	**0,151 m**	**P**	**S.D.**	**B1A**	**GTAW**	**LET**	**12-11-2024**	**D**
					AZ36	**After Cutting**												
01SD	2	LP	FIN	Weld Completion			10 %			Acceptable								
		LP	C 1 DTA	After Cutting			10 %			Acceptable								

Totals per DWG	**26**	**Prefabrication**	**0,15 m**	**1 Nr. Welds**	**1,50 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,15 m**	**1 Nr. Welds**	**1,50 inch**
		Accepted	**0,15 m**	**1 Nr. Welds**	**1,50 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
37/31/1/_		**00**	**09-10-2024**	**27**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**E1A**	**GTAW**	**F**	**11-10-2024**	**B**
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**31**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
4/32/1/_		**00**	**25-09-2024**	**18**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**28-09-2024**	**A**
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**32**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/35/1/_		**00**	**25-09-2024**	**18-24**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**31-12-2024**	**C**
					AX416	**After Cutting**												
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								
		LP	C 1 DTA	After Cutting			10 %			Acceptable								

Totals per DWG	**35**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/37/1/_		**01**	**01-10-2024**	**22**	**AZ52**		**PAD**	**114,00 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000004		Acceptable					09-10-2024			

Totals per DWG	**37**	**Prefabrication**	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/38/1/_		**01**	**01-10-2024**	**22**	**AZ52**		**PAD**	**114,30 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000005		Acceptable					09-10-2024			

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

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/39/1/_		**01**	**30-09-2024**	**21**	**AZ52**		**PAD**	**114,30 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000001		Acceptable					09-10-2024			

Totals per DWG	**39**	**Prefabrication**	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/40/1/_		**01**	**08-10-2024**	**34**	**AZ35**		**PAD**	**114,00 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1B**	**GTAW+SMAW**	**F**	**21-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000019		Acceptable					21-10-2024			

Totals per DWG	**40**	**Prefabrication**	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
10/41/1/_		**01**	**30-09-2024**	**21**	**AZ53**		**PAD**	**114,30 mm**	**3,05 mm**	**FILL**	**0,359 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000002		Acceptable					09-10-2024			

Totals per DWG	**41**	**Prefabrication**	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,36 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number / Class	Insp. Category	Rev. / Cont.	Prod. Date / Examination phase	Prod. Sheet	Welders / Work Instructions	Oper.	Item type / Exam. %	Dimension / N. Rep	Thickness / Films n.	Bevel / Result	Weld Length / WPS Rip.	P/M / Techn. Weld.	Material / Defect length	WPS / CND date	Techn. Weld. / NOTE	Type Cont.	Accept. Date	Spool
7/42/1/_		**01**	**02-09-2024**	**1**	**AZ39**		**PAD**	**273,00 mm**	**4,19 mm**	**FILL**	**0,857 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**12-09-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	ROM	100 %	000042		Acceptable				12-09-2024				
8/42/1/_		**01**	**04-09-2024**	**2**	**AZ39**		**PIPE**	**2,00 in**	**2,77 mm**	**1/2V**	**0,189 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**12-09-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	ROM	100 %	000046		Acceptable				12-09-2024				
14/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**WOL**	**1,00 in**	**3,38 mm**	**1/2V**	**0,104 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**21-10-2024**	**B**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000011		Acceptable				21-10-2024				
26/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**WOL**	**1,00 in**	**3,38 mm**	**1/2V**	**0,104 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**21-10-2024**	**C**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000012		Acceptable				21-10-2024				
28/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**WOL**	**2,00 in**	**2,77 mm**	**1/2V**	**0,189 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**21-10-2024**	**C**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000013		Acceptable				21-10-2024				
30/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**WOL**	**1,00 in**	**3,38 mm**	**1/2V**	**0,104 m**	**P**	**S.S.**	**C1A**	**GTAW**	**LET**	**21-10-2024**	**C**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000014		Acceptable				21-10-2024				
33/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-10-2024**	**C**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000015		Acceptable				21-10-2024				
34/42/2/_		**02**	**09-10-2024**	**39**	**AZ39**		**PAD**	**273,00 mm**	**4,19 mm**	**FILL**	**0,857 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-10-2024**	**B**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000016		Acceptable				21-10-2024				

Totals per DWG	**42**	**Prefabrication**	**2,45 m**	**8 Nr. Welds**	**7,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**2,45 m**	**8 Nr. Welds**	**7,00 inch**
		Accepted	**2,45 m**	**8 Nr. Welds**	**7,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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Client CRWIND CROSSWIND
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Order Number CW-I-WP4-2023-05
ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/43/1/_		**03**	**02-09-2024**	**1-27**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1B**	**GTAW+SMAW**	**F**	**10-01-2025**	**B**
					AX 453	**After Cutting**												
01HSS	1	LP		FIN	Weld Completion	IDL-QCI-LP 0002 01	ROM	100 %	000043		Acceptable				12-09-2024			
		LP	C 1	DTA	After Cutting	IDL-QCI-LP 0002 01	ROM	100 %	000044		Acceptable				10-01-2025			

Totals per DWG	**43**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
7/44/1/_		**01**	**08-10-2024**	**32**	**AZ39**		**PAD**	**273,00 mm**	**4,19 mm**	**FILL**	**0,857 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**10-10-2024**	**A**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000009		Acceptable					10-10-2024			
13/44/1/_		**01**	**02-09-2024**	**1**	**AZ39**		**PAD**	**273,00 mm**	**4,19 mm**	**FILL**	**0,857 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**12-09-2024**	**B**
01HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	ROM	100 %	000045		Acceptable					12-09-2024			

Totals per DWG	**44**	**Prefabrication**	**1,72 m**	**2 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**1,72 m**	**2 Nr. Welds**	**0,00 inch**
		Accepted	**1,72 m**	**2 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/50/1/_		**01**	**21-10-2024**	**49**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000020		Acceptable					05-11-2024			

Totals per DWG	**50**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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Welding Register

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/51/1/_		**01**	**21-10-2024**	**49**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000021		Acceptable					05-11-2024			

Totals per DWG	**51**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/52/1/_		**01**	**22-10-2024**	**50**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000023		Acceptable					05-11-2024			

Totals per DWG	**52**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/53/1/_		**01**	**22-10-2024**	**50**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000024		Acceptable					05-11-2024			

Totals per DWG	**53**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
2/54/1/_		**01**	**22-10-2024**	**50**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**A**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000025		Acceptable					05-11-2024			

Totals per DWG	**54**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/55/1/_		**02**	**21-10-2024**	**49**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000022		Acceptable					05-11-2024			

Totals per DWG	**55**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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ITEM

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
24/62/2/_		**02**	**03-09-2024**	**4**	**AZ52**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**04-09-2024**	**F**
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**62**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/64/1/_		**02**	**23-10-2024**	**52**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000027		Acceptable					05-11-2024			

Totals per DWG	**64**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
14/65/1/_		**00**	**10-09-2024**	**6**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**11-09-2024**	**A**
01HSS	2	LP	FIN	Weld Completion			10 %			Acceptable								

Totals per DWG	**65**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
4/67/1/_		**00**	**09-10-2024**	**26-10**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**E1A**	**GTAW**	**F**	**05-12-2024**	**A**
					AX416	**After Cutting**												
01CS	2	LP	FIN	Weld Completion			10 %			Acceptable								
		LP	C 1 DTA	After Cutting			10 %			Acceptable								

Totals per DWG	**67**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/72/1/_		**02**	**14-10-2024**	**41**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-10-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000018		Acceptable					21-10-2024			

Totals per DWG	**72**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/76/1/_		**02**	**11-10-2024**	**40**	**AZ35**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-10-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000017		Acceptable					21-10-2024			

Totals per DWG	**76**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/80/1/_		**01**	**07-10-2024**	**31**	**AZ35**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000007		Acceptable					09-10-2024			

Totals per DWG	**80**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/84/1/_		**02**	**15-10-2024**	**42**	**AZ39**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**21-10-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000010		Acceptable					21-10-2024			

Totals per DWG	**84**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cons	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
8/88/1/_		**02**	**07-10-2024**	**31**	**AZ35**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**09-10-2024**	**B**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000008		Acceptable					09-10-2024			

Totals per DWG	**88**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/90/1/_		**02**	**22-10-2024**	**50**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000026		Acceptable					05-11-2024			

Totals per DWG	**90**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/91/1/_		**02**	**23-10-2024**	**52**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000028		Acceptable					05-11-2024			

Totals per DWG	**91**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/92/1/_		**02**	**23-10-2024**	**52**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000029		Acceptable					05-11-2024			

Totals per DWG	**92**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/93/1/_		**02**	**24-10-2024**	**53**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000030		Acceptable					05-11-2024			

Totals per DWG	**93**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

Job 123A90 BASE LOAD POWER HUB (BLPH)
Client CRWIND CROSSWIND
Discipline PP Piping

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Cont.	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
18/94/1/_		**02**	**24-10-2024**	**53**	**AZ36**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**05-11-2024**	**F**
03HSS	1	LP	FIN	Weld Completion	IDL-QCI-LP 0002 01	BV	100 %	000031		Acceptable					05-11-2024			

Totals per DWG	**94**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

Rosetti Marino S.p.A.

Welding Register

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

Weld Number		Rev.	Prod. Date	Prod. Sheet	Welders		Item type	Dimension	Thickness	Bevel	Weld Length	P/M	Material	WPS	Techn. Weld.	Type Conn	Accept. Date	Spool
Class	Insp. Category	Cont.	Examination phase		Work Instructions	Oper.	Exam. %	N. Rep	Films n.	Result	WPS Rip.	Techn. Weld.		Defect length	CND date	NOTE		
6/97/1/_		**00**	**25-09-2024**	**18-24**	**AZ53**		**PL**	**50,00 mm**	**5,00 mm**	**FILL**	**0,050 m**	**P**	**S.S.**	**C1A**	**GTAW**	**F**	**31-12-2024**	**B**
					AX416	**After Cutting**												
01CS	2	LP		FIN	Weld Completion		10 %			Acceptable								
		LP	C 1	DTA	After Cutting		10 %			Acceptable								

Totals per DWG	**97**	**Prefabrication**	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Erection	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Accepted	**0,05 m**	**1 Nr. Welds**	**0,00 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Discipline		**Prefabrication**	**9,19 m**	**56 Nr. Welds**	**12,50 inch**
		Erection	**0,58 m**	**4 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**9,77 m**	**60 Nr. Welds**	**18,50 inch**
		Accepted	**9,77 m**	**60 Nr. Welds**	**18,50 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
Totals by Project		**Prefabrication**	**9,19 m**	**56 Nr. Welds**	**12,50 inch**
		Erection	**0,58 m**	**4 Nr. Welds**	**6,00 inch**
		Offshore	**0,00 m**	**0 Nr. Welds**	**0,00 inch**
		Performed	**9,77 m**	**60 Nr. Welds**	**18,50 inch**
		Accepted	**9,77 m**	**60 Nr. Welds**	**18,50 inch**
		Repaired	**0,00 m**	**0 Nr. Welds**	**0,00 inch**

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

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	DTA - After Cutting	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A403 Gr.WP316/316L ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calenderel [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000050	13	123A90-FDL-PP-DI 2/ 2	_	2,00 in	2,77 mm	BW	0.189 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

Company: CONTROL
Operator: Rosetti Mirko

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	DTA - After Cutting	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A182 Gr.F316/316L ASTM A403 Gr.WP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO As welded [X] SPAZZOLATO As brushed [ ] LAV. DI MACCHINA As machined [ ] COME CALANDRATO As calendered [ ] ALTRO Other

[ ] MOLATO As ground [ ] COME LAMINATO As rolled [ ] GREZZO As forged [ ] VERNICIATO As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000049	8	123A90-FDL-PP-DI 5/ 1	-	1,00 in	3,38 mm	BW	0.104 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 MT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	.

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	DTA - After Cutting	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000048	1	123A90-FDL-PP-DI 5/ 1	_	1,00 in	3,38 mm	BW	0.104 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
MIRKO ROSETTI Company: ROSETTI Level 2 ISO 9712 SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

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NDE ACTIVITIES – TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-02-2025

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	DTA - After Cutting	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A182 Gr.F316/316L ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000047	1	123A90-FDL-PP-DI 2/ 1	-	2,00 in	2,77 mm	BW	0.189 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L ASTM A182 Gr.F316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO As welded [X] SPAZZOLATO As brushed [ ] LAV. DI MACCHINA As machined [ ] COME CALANDRATO As calendered [ ] ALTRO Other

[ ] MOLATO As ground [ ] COME LAMINATO As rolled [ ] GREZZO As forged [ ] VERNICIATO As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000046	8	123A90-FDL-PP-DI 42 / 1	_	2,00 in	2,77 mm	LET	0.189 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Company: Rosetti Marino Operator: Rosetti Mirko Level 2 ISO 9712 - SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000045	13	123A90-FDL-PP-DI 44 / 1	_	273,00 in	4,19 mm	F	0.857 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
MIRKO ROSETTI Company: CONTROL Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-01-2025

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	.

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	DTA - After Cutting	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000044	8	123A90-FDL-PP-DI 43 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
MIRKO ROSETTI Company: CONTROL Operator: Rosetti Mirko Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW+SMAW	C1B	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO As welded [X] SPAZZOLATO As brushed [ ] LAV. DI MACCHINA As machined [ ] COME CALANDRATO As calendered [ ] ALTRO Other

[ ] MOLATO As ground [ ] COME LAMINATO As rolled [ ] GREZZO As forged [ ] VERNICIATO As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000043	8	123A90-FDL-PP-DI 43 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Company: Rosetti Marino Operator: Rosetti Mirko	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

MIRKO ROSETTI
Level 2 ISQ 9712 / SNT-TC1A
VT-MT-PT-UT-PAUT/TOFD

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 12-09-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000042	7	123A90-FDL-PP-DI 42/ 1	-	273,00 in	4,19 mm	F	0.857 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
MIRKO ROSETTI Company: CONTROL Operator: Rosetti Mirko Level 2 ISO 9712 / SNT-TC1A VT-MT-PT-UT-PAUT/TOFD	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM SA240 Gr.TP316L ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000041	5	123A90-FDL-PP-DI 1/ 1	FLOWCELL	142,00 in	3,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
CONTROL Operator: [illegible]	CONTROL snc Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A182 Gr.F316/316L ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000039	3	123A90-FDL-PP-DI 1/ 1	FLOWCELL	2,00 in	9,27 mm	LET	0.189 Mt	A
000040	4	123A90-FDL-PP-DI 1/ 1	FLOWCELL	2,00 in	9,27 mm	LET	0.189 Mt	A

NOTE / Remarks

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

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 06-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000037	12	123A90-FDL-PP-DI 11 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A
000038	13	123A90-FDL-PP-DI 14 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
CONTROL snc Company: CONTROL Operator: Burniche Viorel	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000032	13	123A90-FDL-PP-DI 12 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A
000033	13	123A90-FDL-PP-DI 13 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A
000034	12	123A90-FDL-PP-DI 9 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A
000035	12	123A90-FDL-PP-DI 10 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A
000036	2	123A90-FDL-PP-DI 19 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
CONTROL Operator Barrone Mirel	CONTROL snc Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	.

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE /Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO As welded [X] SPAZZOLATO As brushed [ ] LAV. DI MACCHINA As machined [ ] COME CALANDRATO As calendered [ ] ALTRO Other

[ ] MOLATO As ground [ ] COME LAMINATO As rolled [ ] GREZZO As forged [ ] VERNICIATO As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000021	2	123A90-FDL-PP-DI 51 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000022	8	123A90-FDL-PP-DI 55 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000023	2	123A90-FDL-PP-DI 52 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000024	2	123A90-FDL-PP-DI 53 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000025	2	123A90-FDL-PP-DI 54 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000026	18	123A90-FDL-PP-DI 90 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000027	18	123A90-FDL-PP-DI 64 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000028	18	123A90-FDL-PP-DI 91 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000029	18	123A90-FDL-PP-DI 92 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000030	18	123A90-FDL-PP-DI 93 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000031	18	123A90-FDL-PP-DI 94 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
CONTROL Operator: Salvatore Viola	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

CONTROL snc

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NDE ACTIVITIES + TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 05-11-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 01	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 1	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000020	2	123A90-FDL-PP-DI 50 / 1	-	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

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

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW+SMAW	C1B	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000019	10	123A90-FDL-PP-DI 40 / 1	_	114,00 in	3,05 mm	F	0.359 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Burnichon Viorel	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000015	33	123A90-FDL-PP-DI 42/ 2	_	50,00 in	5,00 mm	F	0.050 Mt	A
000016	34	123A90-FDL-PP-DI 42/ 2	_	273,00 in	4,19 mm	F	0.857 Mt	A
000017	8	123A90-FDL-PP-DI 76/ 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000018	8	123A90-FDL-PP-DI 72/ 1	_	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
Company: CONTROL Operator: Buffarini Viviel	CONTROL snc Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	.

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L ASTM A182 Gr.F316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000011	14	123A90-FDL-PP-DI 42 / 2	_	1,00 in	3,38 mm	LET	0.104 Mt	A
000012	26	123A90-FDL-PP-DI 42 / 2	_	1,00 in	3,38 mm	LET	0.104 Mt	A
000013	28	123A90-FDL-PP-DI 42 / 2	_	2,00 in	2,77 mm	LET	0.189 Mt	A
000014	30	123A90-FDL-PP-DI 42 / 2	_	1,00 in	3,38 mm	LET	0.104 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Bonfiglio Vitaliano	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

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NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 21-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000010	8	123A90-FDL-PP-DI 84 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL Operator: Raffaele Vitale	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

CONTROL snc

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NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 10-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	-

TECNICA DI SALDATURA Welding process	PROCEDIMENTO DI SALDATURA WPS	FASE DEL CONTROLLO Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO Object	MATERIALE / Material	TEMPERATURA PEZZO Piece temperature	ISTRUZIONE DI LAVORO PT PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000009	7	123A90-FDL-PP-DI 44 / 1	-	273,00 in	4,19 mm	F	0.857 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 NDT Technician Level 2	CONTROLLO QUALITA' Q.C. Supervisor	ISPETTORE CONTRATTISTA Contractor Repr.	ISPETTORE CLIENTE Company Repr.	ISPETTORE TERZA PARTE Third Party Inspector
Company: CONTROL snc Operator: Buttone Morel	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

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NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 09-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	.

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000004	10	123A90-FDL-PP-DI 37 / 1	_	114,00 in	3,05 mm	F	0.359 Mt	A
000005	10	123A90-FDL-PP-DI 38 / 1	_	114,30 in	3,05 mm	F	0.359 Mt	A
000006	10	123A90-FDL-PP-DI 6 / 1	_	168,00 in	3,40 mm	F	0.528 Mt	A
000007	8	123A90-FDL-PP-DI 80 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A
000008	8	123A90-FDL-PP-DI 88 / 1	_	50,00 in	5,00 mm	F	0.050 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
Company: CONTROL SNC Operator: Burniche Viorel	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 09-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	.

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000003	10	123A90-FDL-PP-DI 18 / 1	_	114,30 in	3,05 mm	F	0.359 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
Company: CONTROL snc Operator: Emanuele Morel	Quality Control Dept. Alberto Cavazzi Rosetti Marino S.p.A.			

ROSETTI MARINO *Group of Companies*

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 09-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	-

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE / Parent Material [X] SALDATURA / Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA / Water [X] STRACCI / Rags [ ] SOLVENTE / Solvent [ ] ALTRO / Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO / Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO / DWG / sheet	MARCA / Mark	DIMENSIONI / Dimension	SPESSORE / Thickness	TIPO DI GIUNTO / Type of joint	LUNGHEZZA CONTROLLATA / Inspected length	ESITO / Result
000002	10	123A90-FDL-PP-DI 41 / 1	-	114,30 in	3,05 mm	F	0.359 Mt	A

NOTE / Remarks

TECNICO CND Livello 2 / NDT Technician Level 2	CONTROLLO QUALITA' / Q.C. Supervisor	ISPETTORE CONTRATTISTA / Contractor Repr.	ISPETTORE CLIENTE / Company Repr.	ISPETTORE TERZA PARTE / Third Party Inspector
Company: CONTROL Operators: Burnichev Viktor	Quality Control Dept. Alberto Cavazzi Rosetti Marino SpA			

CONTROL snc

ROSETTI MARINO
Group of Companies

NDE ACTIVITIES - TEST SHEET

RAPPORTO ESAME CON LIQUIDI PENETRANTI
DYE PENETRANT TEST REPORT

DATA DELL'ESAME / Examination Date: 09-10-2024

FOGLIO N° / sheet n°: 1 DI / of 1

COMMESSA N°/Job No	DISCIPLINA / Discipline	CLIENTE / Client	ORDINE N°/Order N°	PROGETTO/Project
123A90	PP Piping	CROSSWIND	CW-I-WP4-2023-05	BASE LOAD POWER HUB (BLPH)

PROCEDURA / Procedure	SPECIFICA / Specification	ACCETTABILITA'/Acceptance levels	INSPECTION TEST PAN / ITP No.	FASE ITP / Phase
123A90-PML-QHSE-PRO-00101 Rev. 00	123A90-DDL-PP-SP-70029_2	ASME VIII Div.1 Appendix 8	123A90-PML-QHSE-ITP-00076 Rev. 0	.

TECNICA DI SALDATURA / Welding process	PROCEDIMENTO DI SALDATURA / WPS	FASE DEL CONTROLLO / Examination phase	TRATTAMENTO TERMICO / PWHT
GTAW	C1A	FIN - Weld Completion	[ ] PRIMA DEL TT / Before PWHT [ ] DOPO IL TT / After PWHT [X] NON APPLICABILE / Not Applicable

OGGETTO / Object	MATERIALE / Material	TEMPERATURA PEZZO / Piece temperature	ISTRUZIONE DI LAVORO PT / PT Work Instruction
[ ] MAT. BASE Parent Material [X] SALDATURA Weld Metal	ASTM A312 Gr.TP316/316L	Between 10°C and 52° C	IDL-QCI-LP - 0002 Rev. 01

CONDIZIONI DI VISIONE / Viewing conditions

[X] NATURALE / Naturall light [X] ARTIFICIALE / Artificial light — TIPO ILLUMINATORE / Lighting equipment: NONE

[ ] LAMPADA DI WOOD / Wood Lamp [ ] ALTRO / Other — ILLUMINAZIONE / Lighting intensity: >=1076

STATO DELLA SUPERFICIE / Surface condition

[X] COME SALDATO / As welded [X] SPAZZOLATO / As brushed [ ] LAV. DI MACCHINA / As machined [ ] COME CALANDRATO / As calendered [ ] ALTRO / Other

[ ] MOLATO / As ground [ ] COME LAMINATO / As rolled [ ] GREZZO / As forged [ ] VERNICIATO / As painted

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

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

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

RIVELATORE (Marca e tipo) / Developer (trade and type)	Batch N.	ESSICAZIONE / Drying process
D112A (ELITE) SPRAY	230524W150s	natural at ambient temperature

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

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

PULITORE POST-CONTROLLO / Cleaner after examination

[X] ACQUA Water [X] STRACCI Rags [ ] SOLVENTE Solvent [ ] ALTRO Other

OGGETTO CONTROLLATO / Object tested

Nr. RAPPORTO Report Nr.	SALDATURA / Weld Number	DISEGNO / FOGLIO DWG / sheet	MARCA / Mark	DIMENSIONI Dimension	SPESSORE Thickness	TIPO DI GIUNTO Type of joint	LUNGHEZZA CONTROLLATA Inspected length	ESITO / Result
000001	10	123A90-FDL-PP-DI 39/ 1	_	114,30 in	3,05 mm	F	0.359 Mt	A

NOTE / Remarks

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