# Base Load Power Hub (BLPH)

## WELDING REGISTER & MT REPORTS - PIPING

Document Number: 123A90-PML-QC-DB-00008

Document Class: 3

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| 00 | 08/04/2026 | Issue for Information (IFI) | B.Pastorelli | F.Zanellati | R.Degli Esposti |
| Rev. | Date | Description | Prepared | Reviewed | Approved |
| | | | | | |

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## Revision / Change Log

| Rev. | Description |
|---|---|
| 0 | Issue for Information (IFI) |
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# 1 INTRODUCTION AND INSTRUCTIONS FOR USE

This dossier compiles the Magnetic Testing (MT) 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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# 2 IDL-PRQ-02 WELDING REGISTER & NDT REPORT INTERPRETATION

| *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.*

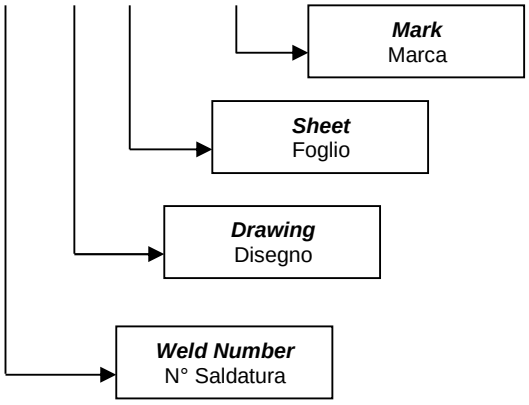
La seguente istruzione fornisce chiarimenti utili per la lettura della stampa del registro saldature relativamente ad identificazione delle saldature, punzoni saldatori, controlli, ecc.
Inoltre, fornisce una chiave di lettura relativamente ad alcuni codici indicati sui report dei Controlli Non Distruttivi.

## 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

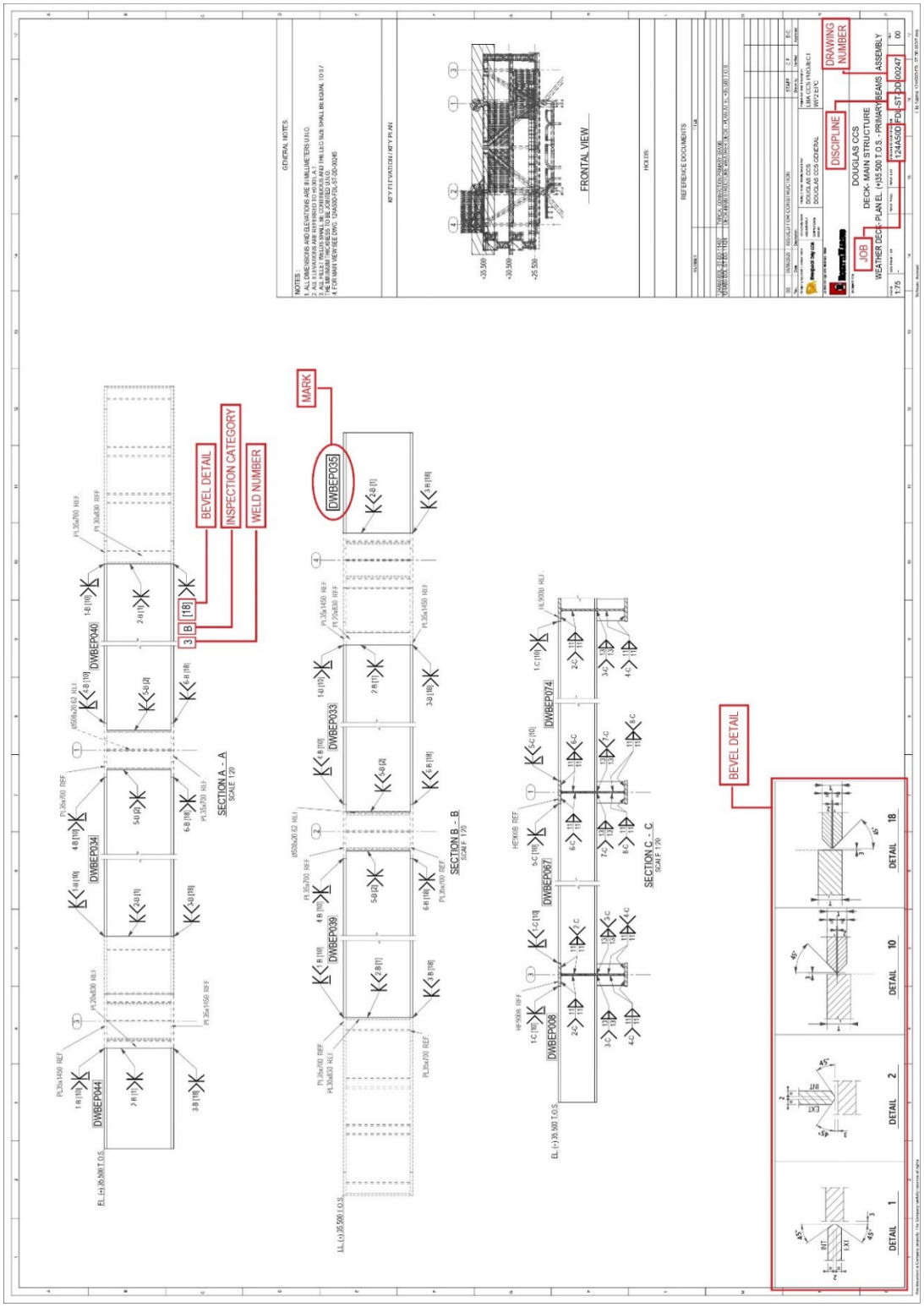
*Indication report (second sheet)* / Rapporto di indicazione (seconda pagina)



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### ATTACHMENT 1A

### Structural Drawing

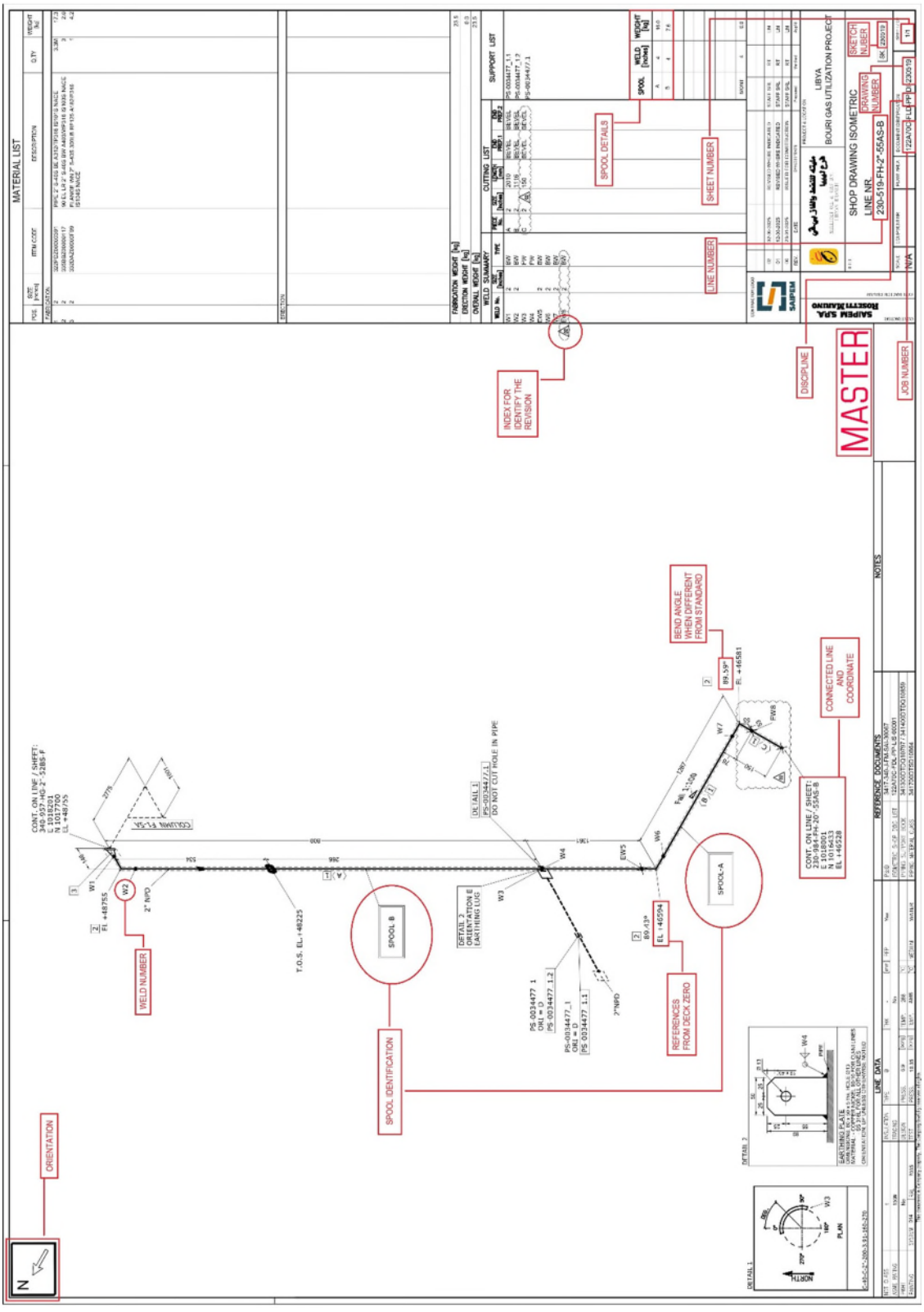





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## ATTACHMENT 1B

## Piping Drawing

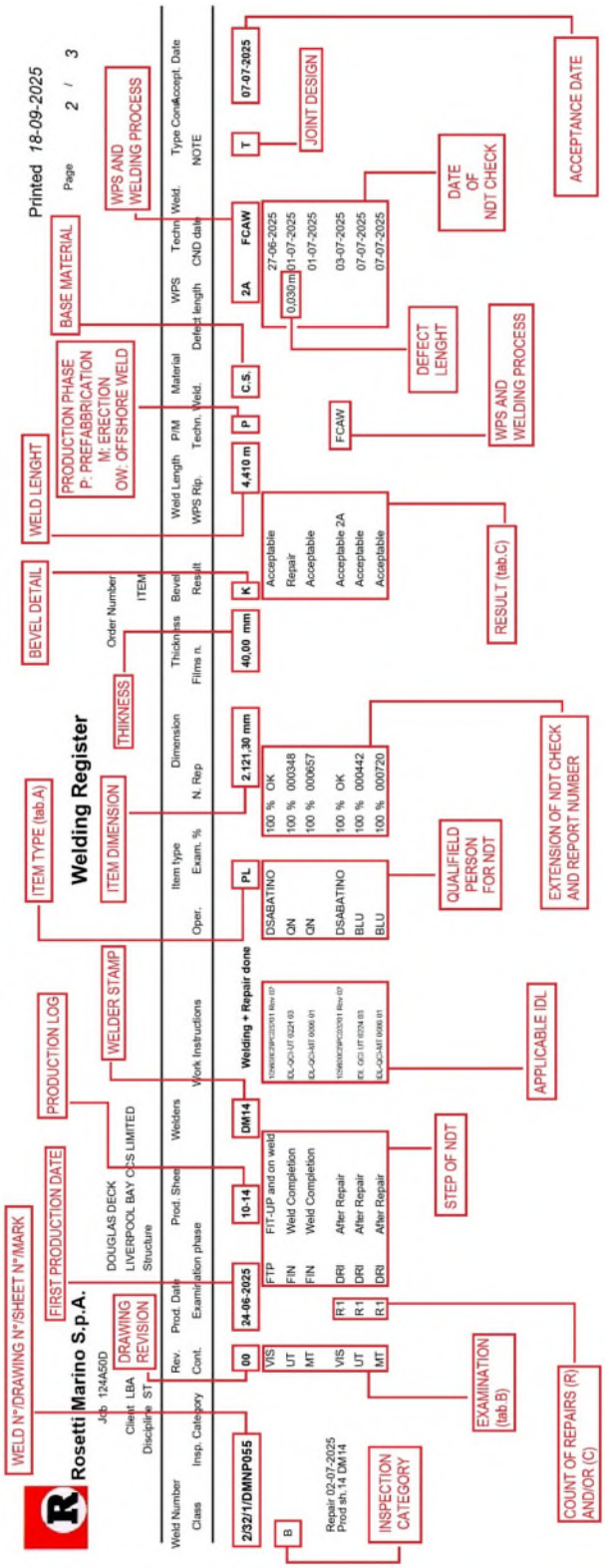





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## ATTACHMENT 2

## 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 |



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## 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 |



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## 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 |



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## 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<br>☐ DOPO IL TT / After PWHT<br>☒ NON APPLICABILE / Not Applicable |

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

**CONDIZIONI DI VISIONE / Viewing conditions**

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

**STATO DELLA SUPERFICIE / Surface condition**

☒ COME SALDATO / As welded ☒ 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. |
|---|---|---|
| ☐ ACQUA / Water ☐ 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) |
|---|---|
| ☒ 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**

☒ ACQUA / Water ☒ 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 Lolli | | | |

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<br>[ ] DOPO IL TT / After PWHT<br>[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 MTPT-VT-UTTOFD PA Operatore Tecnico/B UNI EN ISO 9712 | PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD | | | |

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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. ☒ SALDATURA Weld metal | EN 10025 S355 J2<br>EN 10025 S355 K2 | ☐ 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 |
|---|---|---|---|---|---|
| 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<br>Operator: Barchi Luca | ROSETTI MARINO SPA<br>Comandini Massimo<br>Level II NDT<br>EN ISO9712 | | | |

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

Operatore: Artisani Riccardo

14 AGO. 2025

MOD-QCI-33 2019-00



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## 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<br>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-TKY-TC-1A CSWIP Welding Inspector | PISTOCCHI ANDREA LEVEL III ISO 9712 VT-PT-MT-RT-UT PAUT TOFD | | | |

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**Continued on the second page with the detail of the indication**



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## 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 |

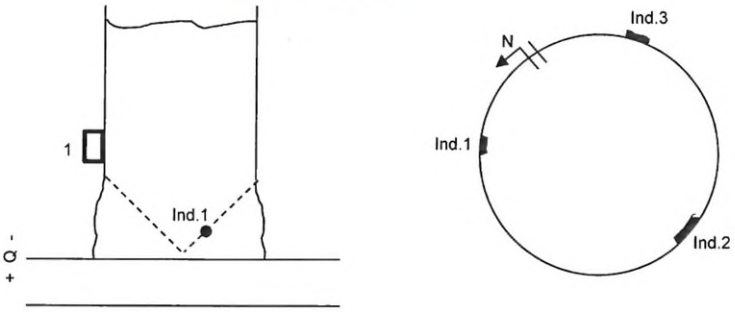
SCHIZZO - Sketch

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

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# 3 WELDING REGISTER – MT

Rosetti Marino S.p.A.

# 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 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 | | |
| **25/31/2/_** | | **03** | **28-11-2024** | **32** | **AZ 32** | | **PIPE** | **1,50 in** | **5,08 mm** | **1/2V** | **0,151 m** | **P** | **C.S.** | **A1A** | **GTAW** | **LET** | **03-12-2024** | **D** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Totals per DWG** | **31** | **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 | | |
| **2/128/1/_** | | **03** | **11-06-2024** | **4** | **AZ35** | | **TRU** | **10,00 mm** | **6,35 mm** | **FILL** | **0,857 m** | **P** | **C.S.** | **A1B** | **GTAW+FCAW** | **F** | **20-06-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |
| **3/128/1/_** | | **03** | **11-06-2024** | **4** | **AZ35** | | **TRU** | **10,00 mm** | **6,35 mm** | **FILL** | **0,857 m** | **P** | **C.S.** | **A1B** | **GTAW+FCAW** | **F** | **20-06-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Totals per DWG** | **128** | **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** |

**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 / 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **6/129/1/_** | | **02** | **27-06-2024** | **11** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **28-06-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | | | 10 % | | | Acceptable | | | | | | | | |
| **8/129/1/_** | | **02** | **27-06-2024** | **11** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **28-06-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | | | 10 % | | | Acceptable | | | | | | | | |
| **10/129/1/_** | | **02** | **27-06-2024** | **11** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **03-07-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | IDL-QCI-MT 0006 00 | BV | 10 % | 000002 | | Acceptable | | | | 03-07-2024 | | | | |
| **12/129/1/_** | | **02** | **28-06-2024** | **12** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **03-07-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | IDL-QCI-MT 0006 00 | BV | 10 % | 000001 | | Acceptable | | | | 03-07-2024 | | | | |
| **14/129/1/_** | | **02** | **27-06-2024** | **11** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **03-07-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | IDL-QCI-MT 0006 00 | BV | 10 % | 000003 | | Acceptable | | | | 03-07-2024 | | | | |
| **16/129/1/_** | | **02** | **27-06-2024** | **11** | **AZ 32** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **03-07-2024** | **B** |
| 01CS | 2 | MT | FIN | Weld Completion | | IDL-QCI-MT 0006 00 | BV | 10 % | 000004 | | Acceptable | | | | 03-07-2024 | | | | |
| **19/129/1/_** | | **02** | **26-06-2024** | **10** | **AZ35** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1A** | **GTAW** | **LET** | **27-06-2024** | **C** |
| 01CS | 2 | MT | FIN | Weld Completion | | | | 10 % | | | Acceptable | | | | | | | | |
| **23/129/2/_** | | **01** | **26-06-2024** | **10** | **AZ35** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1A** | **GTAW** | **LET** | **27-06-2024** | **D** |
| 01CS | 2 | MT | FIN | Weld Completion | | | | 10 % | | | Acceptable | | | | | | | | |
| **27/129/2/_** | | **01** | **26-06-2024** | **10** | **AZ35** | | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1A** | **GTAW** | **LET** | **27-06-2024** | **D** |
| 01CS | 2 | MT | FIN | Weld Completion | | | | 10 % | | | Acceptable | | | | | | | | |

| **Totals per DWG** | **129** | | | | |
|---|---|---|---|---|---|
| | | **Prefabrication** | **2,52 m** | **9 Nr. Welds** | **27,00 inch** |
| | | **Erection** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Offshore** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Performed** | **2,52 m** | **9 Nr. Welds** | **27,00 inch** |
| | | **Accepted** | **2,52 m** | **9 Nr. Welds** | **27,00 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 / Class | Insp. Category | Rev. / Cont. | Prod. Date / Examination phase | Prod. Sheet / Work Instructions | Welders | 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 Conn. | Accept. Date | Spool |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **7/130/1/_** | | **01** | **28-06-2024** | **12** | **AZ 32** | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **01-07-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |
| **9/130/1/_** | | **01** | **28-06-2024** | **12** | **AZ 32** | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **01-07-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |
| **11/130/1/_** | | **01** | **28-06-2024** | **12** | **AZ 32** | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **01-07-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |
| **13/130/1/_** | | **01** | **28-06-2024** | **12** | **AZ 32** | | **WOL** | **3,00 in** | **6,35 mm** | **1/2V** | **0,279 m** | **P** | **C.S.** | **A1C** | **GTAW+SMAW** | **LET** | **01-07-2024** | **A** |
| 01CS | 2 | MT | FIN | Weld Completion | | | 10 % | | | Acceptable | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **Totals per DWG** | **130** | **Prefabrication** | **1,12 m** | **4 Nr. Welds** | **12,00 inch** |
| | | **Erection** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Offshore** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Performed** | **1,12 m** | **4 Nr. Welds** | **12,00 inch** |
| | | **Accepted** | **1,12 m** | **4 Nr. Welds** | **12,00 inch** |
| | | **Repaired** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| **Totals by Discipline** | | **Prefabrication** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Erection** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Offshore** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Performed** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Accepted** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Repaired** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| **Totals by Project** | | **Prefabrication** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Erection** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Offshore** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |
| | | **Performed** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Accepted** | **5,51 m** | **16 Nr. Welds** | **40,50 inch** |
| | | **Repaired** | **0,00 m** | **0 Nr. Welds** | **0,00 inch** |

# 4 MT REPORTS

ROSETTI MARINO
Group of Companies

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

**DATA DELL'ESAME / Examination Date:** 03-07-2024
**FOGLIO / Sheet n°:** 1 of 1

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

| CODICE - PROCEDURA Code - Procedure | SPECIFICA Specification | ACCETTABILITA' Acceptance levels | INSPECTION TEST PLAN ITP No | FASE ITP Phase ITP |
|---|---|---|---|---|
| 123A90-PML-QHSE-PRO-00099 Rev. 00 | 123A90-DDL-PP-SP-70029_2 | ASME VIII Div.1 Appendix 6 | 123A90-PML-QHSE-ITP-00076 Rev.0 | 8.0 |

| TECNICA DI SALDATURA Welding process | PROC. di SALDATURA WPS | FASE DEL CONTROLLO Examination phase | TRATTAMENTO TERMICO / PWHT |
|---|---|---|---|
| GTAW+SMAW | A1C | FIN Weld Completion | [ ] PRIMA DEL TT / Before PWHT<br>[ ] DOPO IL TT / After PWHT<br>[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 | ASTM A350 Gr.LF2<br>ASTM A333 Gr.6 | Between 5 and 50° C | IDL-QCI-MT - 0006 Rev. 00 |

**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 | 2,46÷3,53 kA/m S.N.S180423347 |

| DISTANZA PUNTALI / Pole Spacing (mm) | TIPO APPARECCHIO/ Magnetic Equipment | NUMERO DI SERIE / Serial number |
|---|---|---|
| 200 | CGM mod. NEW 230V | 20426 |

**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 | 7259s |

| VERNICE DI CONTRASTO / Surface contrast paint | MARCA / Trade | TIPO / Type | Batch N. |
|---|---|---|---|
| White | ELITE | WBL5 | U231018S |

**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 |
|---|---|---|---|---|---|---|---|---|
| 000003 | 14 | 123A90-FDL-PP-DI 129 / 1 | - | 3,000 in | 6,35 mm | LET | 0.028 Mt | A |
| 000004 | 16 | 123A90-FDL-PP-DI 129 / 1 | - | 3,000 in | 6,35 mm | LET | 0.028 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<br>Operator: Burnichi Viorel | Enzo Sortino<br>Quality Control Department<br>ROSETTI MARINO SpA | | | |

ROSETTI MARINO
Group of Companies

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

DATA DELL'ESAME / Examination Date: 03-07-2024
FOGLIO / Sheet n° 1 of 1

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

| CODICE - PROCEDURA Code - Procedure | SPECIFICA Specification | ACCETTABILITA' Acceptance levels | INSPECTION TEST PLAN ITP No | FASE ITP Phase ITP |
|---|---|---|---|---|
| 123A90-PML-QHSE-PRO-00099 Rev. 00 | 123A90-DDL-PP-SP-70029_2 | ASME VIII Div.1 Appendix 6 | 123A90-PML-QHSE-ITP-00076 Rev.0 | 8.0 |

| TECNICA DI SALDATURA Welding process | PROC. di SALDATURA WPS | FASE DEL CONTROLLO Examination phase | TRATTAMENTO TERMICO / PWHT |
|---|---|---|---|
| GTAW+SMAW | A1C | FIN Weld Completion | [ ] PRIMA DEL TT / Before PWHT<br>[ ] DOPO IL TT / After PWHT<br>[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 | ASTM A350 Gr.LF2 | Between 5 and 50° C | IDL-QCI-MT - 0006 Rev. 00 |

**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 | 2,46+3,53 kA/m S.N.S180423347 |

| DISTANZA PUNTALI / Pole Spacing (mm) | TIPO APPARECCHIO/ Magnetic Equipment | NUMERO DI SERIE / Serial number |
|---|---|---|
| 200 | CGM mod. NEW 230V | 20426 |

**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 | 7259s |

| VERNICE DI CONTRASTO / Surface contrast paint | MARCA / Trade | TIPO / Type | Batch N. |
|---|---|---|---|
| White | ELITE | WBL5 | U231018S |

**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 |
|---|---|---|---|---|---|---|---|---|
| 000002 | 10 | 123A90-FDL-PP-DI 129 / 1 | _ | 3,000 in | 6,35 mm | LET | 0.028 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<br>Operator: Burniche Viorel | Enzo Sortino<br>Quality Control Department<br>ROSETTI MARINO SpA | | | |

ROSETTI MARINO
Group of Companies

**NDT ACTIVITIES - TEST REPORT**

# RAPPORTO DI ESAME MAGNETOSCOPICO
# MAGNETIC PARTICLE TEST REPORT

**DATA DELL'ESAME / Examination Date:** 03-07-2024

**FOGLIO / Sheet n°** 1 of 1

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

| CODICE - PROCEDURA Code - Procedure | SPECIFICA Specification | ACCETTABILITA' Acceptance levels | INSPECTION TEST PLAN ITP No | FASE ITP Phase ITP |
|---|---|---|---|---|
| 123A90-PML-QHSE-PRO-00099 Rev. 00 | 123A90-DDL-PP-SP-70029_2 | ASME VIII Div.1 Appendix 6 | 123A90-PML-QHSE-ITP-00076 Rev.0 | 8.0 |

| TECNICA DI SALDATURA Welding process | PROC. di SALDATURA WPS | FASE DEL CONTROLLO Examination phase | TRATTAMENTO TERMICO / PWHT |
|---|---|---|---|
| GTAW+SMAW | A1C | FIN Weld Completion | [ ] PRIMA DEL TT / Before PWHT<br>[ ] DOPO IL TT / After PWHT<br>[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 | ASTM A350 Gr.LF2 | 22°C | IDL-QCI-MT - 0006 Rev. 00 |

**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 | 2,46+3,53 kA/m S.N.S180423347 |

| DISTANZA PUNTALI / Pole Spacing (mm) | TIPO APPARECCHIO/ Magnetic Equipment | NUMERO DI SERIE / Serial number |
|---|---|---|
| 200 | CGM mod. NEW 230V | 20426 |

**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 | 7259s |

| VERNICE DI CONTRASTO / Surface contrast paint | MARCA / Trade | TIPO / Type | Batch N. |
|---|---|---|---|
| White | ELITE | WBL5 | U231018S |

**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 |
|---|---|---|---|---|---|---|---|---|
| 000001 | 12 | 123A90-FDL-PP-DI 129 / 1 | _ | 3,000 in | 6,35 mm | LET | 0.028 Mt | A |
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**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<br>Operator: Burniche Viorel<br>CONTROL snc | Enzo Sortino<br>Quality Control Department<br>ROSETTI MARINO SpA | | | |