




| | | | |
|---|--|---|---|
|  Tecnimont S.p.A. |  REPSOL POLIMEROS SA | 4274_CONST 4274-ALBA PROJECT-PP AND PEL PLANTS |  |
| MOD-ITP-XL_220 Rev.1 | | RELEASE OF SPOOLS FROM WORKSHOP | Report n° IP-WSR-P-310-000135_RFI2320_MOD-ITP-XL_220 |
| | | RFI Nr.: | Date : |
| Unit - | | | |
| Plant Area - | | | |
| Isometric Number | | | |
| Inspection Package Number IP-WSR-P-310-000135_RFI2320 - IP Spool Release From Workshop | | | |

Sheet 01/01

The Present Inspection Package contains the following Elements:

1121-JWS64027-1-SP06;1121-JWS64027-1-SP05;1121-JWS64027-1-SP02;1211-FW68E28-3-SP05;1211-FW68E28-3-SP04;1211-FW68E28-3-SP03;1121-N67079-1-SP03;1121-N67079-1-SP02;1121-N67079-1-SP01;1211-FL40F01-3-SP05;1211-FL40F01-3-SP04;1211-FL40F01-2-SP03;1211-FL40F01-2-SP02-ZZ;1211-FL40F01-1-SP01;1121-JWS64049-3-SP03;1122-CHWS14014-1-SP05;1122-CHWS14014-1-SP04;1122-CHWS14014-1-SP03-ZZ;1121-HN67011-1-SP07;1121-HN67011-1-SP06;1211-FL40F01-3-SP06;1211-FW68B40-2-SP09;1211-FW68B40-2-SP08;1211-FW68B40-2-SP07;1211-FW68B40-2-SP06;1122-CHWS14014-2-SP02;1122-CHWS14014-2-SP01;1211-VA88002-1-SP01;1211-CWR89009-1-SP03;1211-CWR89009-1-SP02;1211-CWR89009-1-SP01;1211-WW70B01-1-SP08;1211-FW68B40-2-SP10;1211-VA88002-1-SP05;1211-VA88002-1-SP04;1211-VA88002-1-SP03;1211-VA88002-1-SP02

NOTES (*) : 4274-XH-PQ-00000001

1) Painting cycle to be indicated.

2) Refer to: 4274-LZ-PC-00000214 (COMPANY 4001008GEN-PC-214) "Management of Site Metallic Welding Activities" and 4274-LZ-PC-00000215 (COMPANY 4001008GEN-PC-215) "Procedure for Traceability of Piping Material"

3) Refer to: 4274-XH-SG-00000003 (COMPANY 45-L-45-000-2-00-80005) "Specification for Piping Fabrication & Erection Amendment to EC-L-51.01 and EC-L-51.02" and 4274-XH-PQ-00000001 (COMPANY 45-L-45-000-2-00-80081) "Inspection and Test Plan for Steel Piping Works"

 **TECNIMONT**

Pinto Joaquim
Mechanical Piping SpV.

Joaquim Pinto
17/05/2024

JOSEPH ANDRIAN
23/05/2024
On behalf of TCM

| | | | | | |
|------------------------|--|--|---------------------|-------|---------------------|
| LEGEND OF CHECK RESULT | <input checked="" type="checkbox"/> Checked & NOT Accepted | <input checked="" type="checkbox"/> Checked & Accepted | N.A. Not Applicable | Y / N | Punch List Produced |
|------------------------|--|--|---------------------|-------|---------------------|

| | Date [DD-MMM-YYYY] | Name | Signature |
|---------------|-----------------------|------------------|------------------|
| SUBCONTRACTOR | 15/05/2024 | Patricia Texeira | Patricia Texeira |
| CONTRACTOR | | | |
| COMPANY | | | |
| (Free) | | | |



ISO Summary List

22635 / 1977
Page 1

Client **TECNIMONT/REPSOL**
Local **Portugal**

Job # **22635**
Project **4274 ALBA-I007 Piping Fabrication**

% RT/UT
% PT/MT

ISO # **2121-FL40F01-3**
Piping Size/Class **3-B32S1**

Revision **00**
PED Category **I**

Priority **2**
Assessment Inspection/Results

| Spool | Weld# | Joint | Product Description | Seq. N. | Heat # | M.Certificate | FM-Dos | WPS | WeldDate/Stamp | VT | NDT-PT/MT | NDT-RT/UT | NDT-PMI/HT | NDT-PN | NDT-FT | Extension 1 | Extension 2 |
|-------|-------|-------|---|---|------------|-------------------|-------------------|-------------|----------------|------------|-----------|----------------|------------|--------|--------|-------------|-------------|
| 04 | 04 | S23 | BW | 2x2" WN FLANGE ASME B16.5 150# A350-LF2 | CERT. TCM | 22904159 ✓ | BLD-25-0525-019 | 18:Vareta F | MW.23_BW | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3x2" ECCENTRIC REDUCER ASME B16.9 A420- | 155 | 51822K ✓ | 0012023-36 | PVX2910998 | | | S287 | | | | | | | |
| 05 | 04 | S24 | BW | 3x2" ECCENTRIC REDUCER ASME B16.9 A420- | 155 | 51822K ✓ | 0012023-36 | 18:Vareta F | MW.23_BW | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | PVX2910998 | | | S287 | | | | | | | |
| 06 | 04 | S25 | OL | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | 18:Vareta F | MW.23_SBR | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3x.75" REDUCING SOCKOLET MSS SP-97 3000 | CERT. TCM | 2304B-VD41 | 2023-06-283-40 | PVX2910998 | | | S287 | | MT: MT-I-063-A | | | | | |
| 07 | 04 | S28 | BW | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | 18:Vareta F | MW.23_BW | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3" 90 LR ELBOW ASME B16.9 A420-WPL6 BE | 587 | 720406 | CE23004182_3.1_01 | PVX2910998 | | | S287 | | RT: RT-I-0408 | | | | | |
| 08 | 04 | S29 | BW | 3" 90 LR ELBOW ASME B16.9 A420-WPL6 BE | 587 | 720406 | CE23004182_3.1_01 | 18:Vareta F | MW.23_BW | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | PVX2910998 | | | S287 | | | | | | | |
| 09 | 04 | S30 | BW | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | 18:Vareta F | MW.23_BW | 22/12/2023 | VT-I-095 | | | | | | |
| | | | 3x3" WN FLANGE ASME B16.5 150# A350-LF2 | CERT. TCM | 22904159 | BLD-25-0525-019 | PVX2910998 | | | S287 | | | | | | | |
| 10 | 05 | S31 | BW | 3x3" WN FLANGE ASME B16.5 150# A350-LF2 | CERT. TCM | 22904159 | BLD-25-0525-019 | 18:Vareta F | MW.23_BW | 21/12/2023 | VT-I-094 | | | | | | |
| | | | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | PVX2910998 | | | S260 | | | | | | | |
| 11 | 05 | S32 | BW | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | 18:Vareta F | MW.23_BW | 21/12/2023 | VT-I-094 | | | | | | |
| | | | 3" 90 LR ELBOW ASME B16.9 A420-WPL6 BE | 587 | 720406 | CE23004182_3.1_01 | PVX2910998 | | | S260 | | | | | | | |
| 12 | 05 | S33 | BW | 3" 90 LR ELBOW ASME B16.9 A420-WPL6 BE | 587 | 720406 | CE23004182_3.1_01 | 18:Vareta F | MW.23_BW | 21/12/2023 | VT-I-094 | | | | | | |
| | | | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | PVX2910998 | | | S260 | | | | | | | |
| 13 | 06 | S35 | BW | 3" 90 LR ELBOW ASME B16.9 A420-WPL6 BE | 587 | 720406 | CE23004182_3.1_01 | 18:Vareta F | MW.23_BW | 21/12/2023 | VT-I-094 | | | | | | |
| | | | 3" PIPE - A333-6 BE SMLS | 125 | 23102062 | 23503488 | PVX2910998 | | | S287 | | | | | | | |

Notes

BW-Butt Weld; FW-Fillet Weld; LW-Lap Weld; SW-Socket Weld; TBW-Tee Butt Weld
PT-Penetrant Test; MT-Magnetic Test; RT-Radiographic Test
UT-Ultrasonic Test; PMI-Positive Material Identification
HT-Hardness Test; PN-Pneumatic Test; FT-Ferrites Test

Remarks

APPROVED QC

Name: *Patricia Texeira*
Date: *15/05/2024*
Sign: *Patricia Texeira*

APPROVED by Client

Name: *ZOGHEANDU LORIAN*
Date: *23/05/2024*
Sign: *[Signature]*

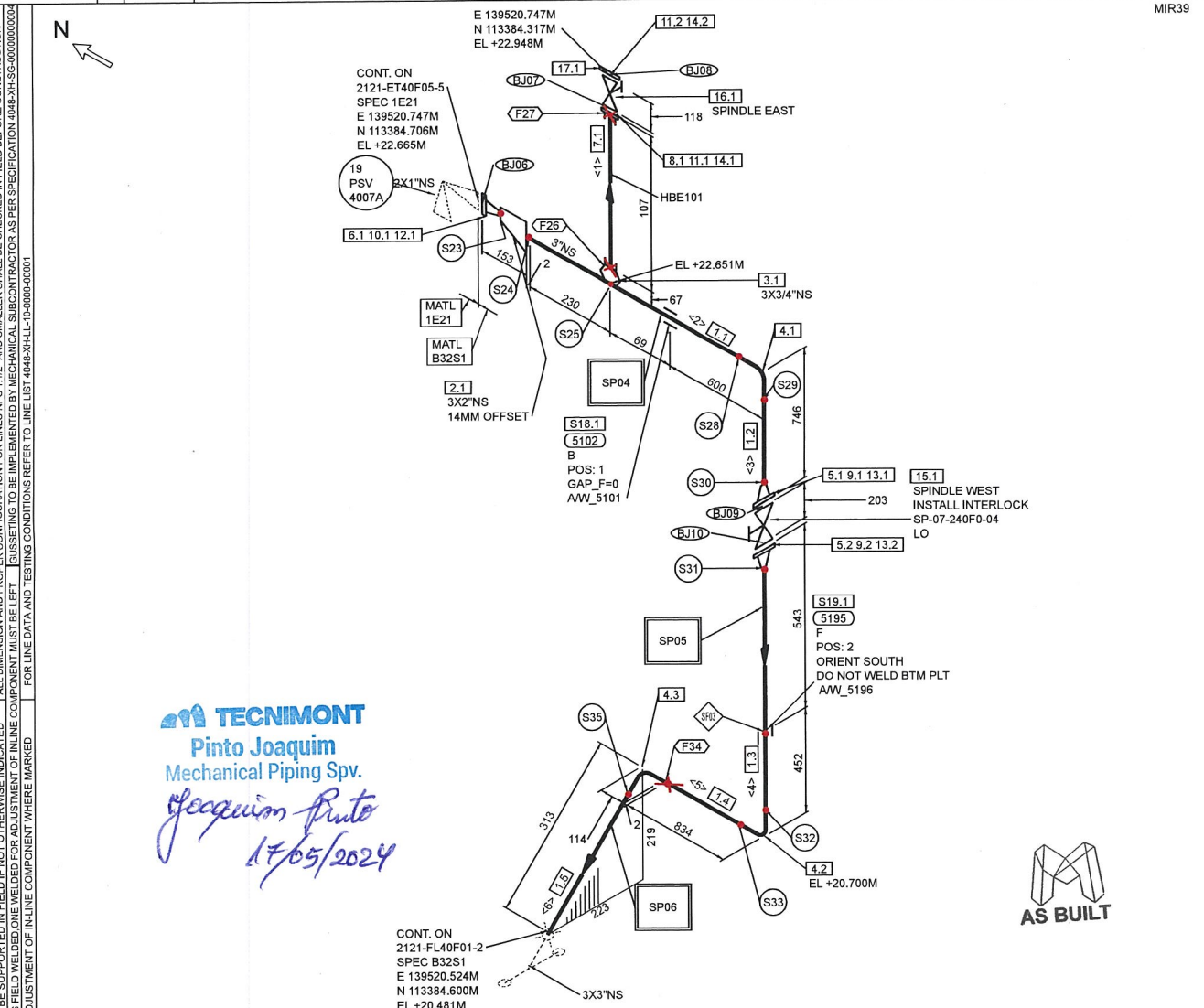
APPROVED by 3rd party or AI

Name:
Date:
Sign:



| LINE DATA | | | | | | | | | |
|-----------------------|------------|----------------------------|------------|----------------|---------------|---------------------------------|--|--|--|
| FLUID CODE: FL | | LINE NO. 3"-FL-40F01-B32S1 | | | | | | | |
| PIPING MATERIAL CLASS | | INSULATION | WELD CLASS | HEAT TREATMENT | PAINTING CODE | P&ID No. | | | |
| B32S1 | | N / 0 | M | N | 1 | 19-A-19-000-1-01-00001 sheet 36 | | | |
| 00 | 11-09-2023 | ISSUED FOR CONSTRUCTION | | TG | MW | TM | | | |
| REV | DATE | REVISION DESCRIPTION | | DRAWN UP | CHKD UP | APP'D | | | |

| Tecnimont | | PIPING ISOMETRIC | | IDENTIFICATION CODE | | | |
|---------------------------------|--|--------------------------------|--|------------------------------|------|----------------|---------|
| PLANT: SINES INDUSTRIAL COMPLEX | | CLIENT REF: REPOL POLYMEROS | | Job | Area | N | |
| | | | | 4274 | XHDL | 2121 | FL40F01 |
| | | | | UNIT | 19 | SHEET | 3 |
| | | | | | | REV | 00 |
| REFERENCES | | E C T Y N | | E C T Y N | | E C T Y N | |
| PIPING ASSEMBLY DRAWING | | 19-L-19-000-3-00-86196 sheet 5 | | PIPING SUPPORT SPECIFICATION | | XH-SG-00000002 | |
| PIPING ISOMETRIC LIST | | E C T Y N | | PIPING TYPICAL INSTALLATIONS | | XH-SL-00000002 | |
| | | XH-LD-21210001 | | WELDING SPECIFICATION | | XH-SW-00000001 | |



| BILL OF MATERIALS | | | | |
|-----------------------|--|---------|-----------|-------|
| FABRICATION MATERIALS | | | | |
| PS NO | DESCRIPTION | NS (MM) | ITEM CODE | QTY. |
| 1 | PIPE - A333-6 BE SMLS T01AC22V02 S-STD <PIPL020B13STD> (L-8199) | 3 | I146278 | 3.1 M |
| 2 | ECCENTRIC REDUCER ASME B16.9 A420-WPL6 BE SMLS C22DC09V01 S-STD <EREL210F315151415> (L-8238) | 3X2 | I213207 | 1 |
| 3 | REDUCING SOCKLETT MSS-SP-97 3000# A350-LF2 Class 1 BE SWE - R13DNC07V101 NREQD <SOKL300LB01511> (L-7906) | 3X3/4 | I368227 | 1 |
| 4 | 90 LR ELBOW ASME B16.9 A420-WPL6 BE SMLS C01DC09V01 S-STD <90LL210F33STD> (L-7965) | 3 | I213645 | 3 |
| 5 | WN FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01DCD07BV05 S-STD <WNFL300R153STD> (L-7971) | 3 | I140827 | 2 |
| 6 | WN FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01DCD07BV05 S-STD <WNFL300R153STD> (L-7971) | 2 | I140779 | 1 |

| ERECTION MATERIALS | | | | |
|--------------------|---|---------|-----------|-------|
| PS NO | DESCRIPTION | NS (MM) | ITEM CODE | QTY. |
| 7 | PIPE - A333-6 PE SMLS T01AC22Z02 S-XS <PIPL020A134XS> (L-PIP01) | 3/4 | I146384 | 0.1 M |
| 8 | SW FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE SWE 125 - 250 AARH F02DCD07B105 S-XS <SWFL300R1534XS> (L-7970) | 3/4 | I820457 | 1 |
| 9 | FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2Q0S01 <NMGQ102R1F3> (L-NMG17) | 3 | I1169079 | 2 |
| 10 | SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 316/GRAP LTCS SS 316 ASME B16.5 G03GDP1IAG8 <N/A> (N/A) | 2 | I46364680 | 1 |
| 11 | FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2Q0S01 <NMGQ102R1F34> (L-NMG17) | 3/4 | I1665198 | 2 |
| 12 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/194-7 INCH SIZE I10B5301 <SB2R55G/831/2> - 2 NUTS PER BOLT - 85 mm Length | 5/8 | I55705048 | 4 |
| 13 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/194-7 INCH SIZE I10B5301 <SB2R55G/831/2> - 2 NUTS PER BOLT - 90 mm Length | 5/8 | I55705059 | 8 |
| 14 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/194-7 INCH SIZE I10B5301 <SB2R55G/1221/2> - 2 NUTS PER BOLT - 65 mm Length | 1/2 | I55704809 | 8 |
| 15 | GATE VALVE API 600 150# A352-LCC RFFE 10-316 API 600 L7/7 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FDC82B12R NREQD <G43L-8353> (L-8353) | 3 | I63584469 | 1 |
| 16 | GATE VALVE API 602 150# A350-LF2 Class 1 RFFE 10-316 API 602 L7/7 125 - 250 AARH BB-OS&Y SCW API 602 HW ASME B16.5 V01GDC07BH1 NREQD <G43L-AL011> (L-AL011) | 3/4 | I63584653 | 1 |
| 17 | BLIND FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE NREQD 125 - 250 AARH F10DCD07B005 <BLFL300R1534> (L-7972) | 3/4 | I560221 | 1 |
| 18 | WELDED ANCHOR - C181 H = 100 L = 140 | 3 | I5102 | 1 |
| 19 | STOP HORIZ VERT FOR NOT INS. PIPING-N1F1 | 3 | I5195 | 1 |

| CUT LIST | | | WELD LIST | | | BOLT LIST | | | |
|----------|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------------|-------------|
| PIECE NO | LENGTH (MM) | SIZE (IN) | WELD NO | WELD CAT. | SIZE (IN) | WELD TYPE | BOLT NO | FLANGE SIZE(IN) | LENGTH (MM) |
| <1> | 100 | 3/4" | S23 | S | 2" | BW | BJ06 | 2" | 5/8" |
| <2> | 782 | 3" | S24 | S | 3" | BW | BJ07 | 3/4" | 1/2" |
| <3> | 558 | 3" | S25 | S | 3/4" | OL | BJ08 | 3/4" | 1/2" |
| <4> | 807 | 3" | F26 | F | 3/4" | SW | BJ09 | 3" | 5/8" |
| <5> | 746 | 3" | F27 | F | 3/4" | SW | BJ10 | 3" | 5/8" |
| <6> | 469 | 3" | S28 | S | 3" | BW | | | |
| | | | S29 | S | 3" | BW | | | |
| | | | S30 | S | 3" | BW | | | |
| | | | S31 | S | 3" | BW | | | |
| | | | SF03 | F | 3" | FT | | | |
| | | | S32 | S | 3" | BW | | | |
| | | | S33 | S | 3" | BW | | | |
| | | | F34 | F | 3" | BW | | | |
| | | | S35 | S | 3" | BW | | | |

| INCH METER | |
|--------------|---------------|
| PIPE NS (IN) | CL LENGTH (M) |
| 3 | 5.0 |
| 2 | 0.2 |
| 0.75 | 0.2 |

1 DENOTES PARTS LIST NO

PIPE SUPPORT

A = RESTING SUPPORT G = GUIDE F = AXIAL RESTRAINT B = GUIDE + STOP M = SPRING

WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE

PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT

MECOWIDE

Prep.: TG

Status: IFC

Proc. NR: PCL 22635

Date: 11-09-2023

Rev: 00

Signature: [Signature]

Before Welding: [Signature]

After Welding: [Signature]

* Assinilate deviation in the drawings (" + n " or " - n ")

Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)