




| | | | |
|---|---|---|---|
|  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-310-000055_RFI1119 MOD-ITP-XL_220 |
| | | RFI Nr.: 1119 | Date : |
| Unit - | | | |
| Plant Area - | | | |
| Isometric Number | | | |
| Inspection Package Number IP-WSR-P-310-000055_RFI1119 - IP Spool Release From Workshop | | | |

Sheet 01/01

The Present Inspection Package contains the following Elements:

2211-VRG50A09-1-SP02;2211-VRG50A09-1-SP01;2211-VRG50A08-1-SP11;2211-VRG50A08-1-SP07;2211-VRG50A08-1-SP06;2211-VRG50A08-1-SP05;2211-FL50A02-4-SP09;2211-FL50A02-4-SP08;2211-CWR40G04-3-SP04;2211-CWR40G04-2-SP03;2211-CWR40G04-2-SP02;2211-CWR40G04-1-SP01;2211-CWR40B02-3-SP04;2211-CWR40B02-3-SP03;2121-VRG41B13-1-SP05;2121-VG40P02-1-SP01;2121-FL40K02-1-SP02;2121-FL40K02-1-SP01;2121-FL40C01-3-SP04;2121-FL40C01-3-SP03;2121-ET40F04-1-SP02;2121-ET40F04-1-SP01;2121-ET40A07-7-SP04;2121-CWS40G04-1-SP03;2121-CWS40G04-1-SP02;2121-CWS40G04-1-SP01;2121-CWS40G03-2-SP02;2121-CWS40G03-1-SP01-ZZ;2121-CWR40B02-3-SP07;2121-CWR40B02-3-SP06;2121-CWR40B02-1-SP11;2121-CWR40B02-1-SP02;2121-CWR40B02-1-SP01;2121-COM40B01-1-SP02;2121-COM40B01-1-SP01;2121-BU10C13-2-SP05;2121-BU10C13-2-SP04

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"

| | | |
|---|---|--|
|  L.Gomes NW1 |  Pinto Joaquim Mechanical Piping Spv. Joaquim Pinto 20/02/2024 |  NoBo 1155 |
|---|---|--|

| | | | | | |
|------------------------|--|--|---------------------|-------|---------------------|
| 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 | 20/02/2024 | Patricia Teixeira | Patricia Teixeira | | |
| CONTRACTOR | | | | | |
| COMPANY | | | | | |
| (Free) | | | | | |



ISO Summary List

22635 / 1347

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-ET40F04-1**

Revision **00**

Priority **6**

Piping Size/Class **3-1E21**

PED Category **II**
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 |
|-------|-------|-------|--|------------|--------------------|--|------------------------|----------|--------------------|----------|-----------|-----------|------------|--------|--------|-------------|-------------|
| 01 | S02 | BW | 3" PIPE - A106-B BE SMLS ✓ 3x2" ECCENTRIC REDUCER ASME B16.9 A234- ✓ | 17 541 | 23211709 88166 | 23310546 CE23008046_3.1_01 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S260 | VT-I-061 | | | | | | | |
| 01 | S01 | BW | 3x3" WN FLANGE ASME B16.5 300# A105N RF ✓ 3" PIPE - A106-B BE SMLS ✓ | 38 17 | 70HC22 23211709 | 225129 23310546 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S260 | VT-I-061 | | | | | | | |
| 02 | S11 | BW | 3x2" REDUCING TEE ASME B16.9 A234-WPB B ✓ 3" PIPE - A106-B BE SMLS ✓ | 219 17 | 782363 23211709 | CE23007084_3.1_01 23310546 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |
| 02 | S10 | BW | 3" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 3x2" REDUCING TEE ASME B16.9 A234-WPB B ✓ | 228 219 | 215148 782363 | CE23002054_3.1_01 CE23007084_3.1_01 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |
| 02 | S09 | BW | 3" PIPE - A106-B BE SMLS ✓ 3" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ | 17 228 | 23211709 215148 | 23310546 CE23002054_3.1_01 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |
| 02 | S06 | BW | 3x2" REDUCING TEE ASME B16.9 A234-WPB B ✓ 3" PIPE - A106-B BE SMLS ✓ | 219 17 | 782363 23211709 | CE23007084_3.1_01 23310546 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |
| 02 | S04 | BW | 2x2" WN FLANGE ASME B16.5 300# A105N RF ✓ 3x2" ECCENTRIC REDUCER ASME B16.9 A234- ✓ | 39 541 | B8AV0 88166 | 225263 CE23008046_3.1_01 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |
| 01 | S03 | BW | 3x2" ECCENTRIC REDUCER ASME B16.9 A234- ✓ 2x2" WN FLANGE ASME B16.5 300# A105N RF ✓ | 541 39 | 88166 B8AV0 | CE23008046_3.1_01 225263 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S260 | VT-I-061 | | | | | | | |
| 02 | S05 | BW | 3x2" REDUCING TEE ASME B16.9 A234-WPB B ✓ 3x2" ECCENTRIC REDUCER ASME B16.9 A234- ✓ | 219 541 | 782363 88166 | CE23007084_3.1_01 CE23008046_3.1_01 | 5:Vareta PVX1312824 | MW.20_BW | 01/11/2023 S286 | VT-I-061 | | | | | | | |

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 Teixeira*

Date: *19/02/2024*

Sign: *Patricia Teixeira*

APPROVED by Client

Name: *L. Gomes*

Date: *20/02/2024*

Sign: *L. Gomes*

APPROVED by 3rd party or AI

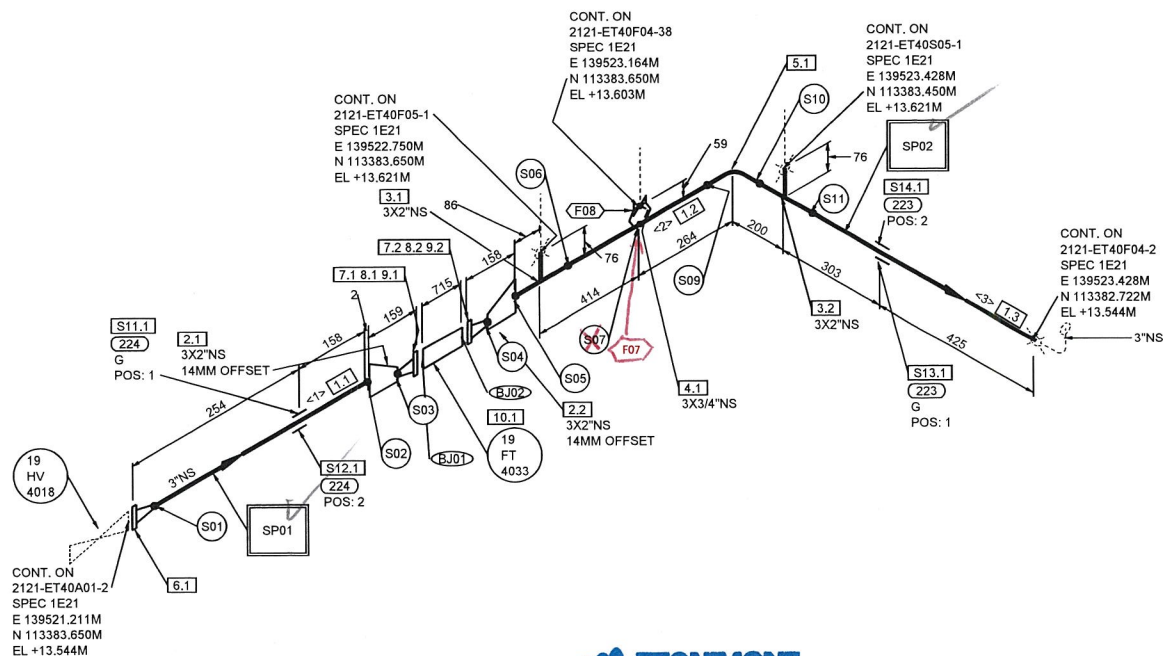
Name: *João Silva*

Date: *20/02/2024*

Sign: *João Silva*





| | |
|--|---|
| | ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION |
| | ADJUSTING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER SPECIFICATION 4046-XH-SG-400000000 |
| | FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4046-XH-LI-10-0000-00001 |



TECNIMONT
Pinto Joaquim
Mechanical Piping Spv.

Joaoquin Pinto
20/02/2024




| | | | | |
|---|---|-----------|------------------|------------|
|  MEC WIDE ENGINEER PRO CHALLENGES | Prep.: _____ | TG _____ | PROC. NR: _____ | PCL 22635 |
| | Status: _____ | IFC _____ | Date: 22-08-2023 | Rev: _____ |
| Dimensional: | Signature: _____ | | | |
| Before Welding |  | | | |
| After Welding | | | | |
| * Assinalate deviation in the drawings (*" + " or *" - "). Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK) | | | | |

AUTHORISED FOR CONSTRUCTION

SIGNED FOR CONSTRUCTION IS SHOWN ON ISO LIST FOR RELEVANT PIPING AREA

| LEGENDS | | | | | | | |
|------------|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|
| JOINT TYPE | HEBEL TYPE OF JOINT | JOINT TYPE | HEBEL TYPE OF JOINT | JOINT TYPE | HEBEL TYPE OF JOINT | JOINT TYPE | HEBEL TYPE OF JOINT |
| BW | G | BW | B | LET | LET | SOB | B |
| PW | S | BWB | B | LP | RF | SOF | S |
| LA | RF | BLW | B | MTW | M | THD | TH |

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

| | | | | | | | | | | |
|--|--|-------------------------------|---------|------------------------------|-----------|-----------------|---------------------------------|-----------------|----------------------|-------------|
|  Tecnimont | | PIPING ISOMETRIC | | IDENTIFICATION CODE | | | | | | |
| | | | | Job | E C T N | Area | N | | | |
| PLANT: SINES INDUSTRIAL COMPLEX | | CLIENT REF: REP SOL POLYMEROS | | 4274 | XHDL | 2121 | ET40F04 | | | |
| | | | | UNIT | 19 | SHEET | 1 | REV 00 | | |
| REFERENCES | PIPING ASSEMBLY DRAWING | | E C T N | PIPING SUPPORT SPECIFICATION | | E C T N | PIPING STANDARD SUPPORT SUMMARY | | | |
| | 16L-19-000-00-86106 sheet 4 | | | XH-SG-00000002 | | | XH-LP-000000001 | | | |
| | PIPING ISOMETRIC LIST | | E C T N | PIPING TYPICAL INSTALLATIONS | | E C T N | WELDING SPECIFICATION | | | |
| | | XH-LD-21210001 | | XH-SL-00000002 | | XH-SW-000000001 | | | | |
| BILL OF MATERIALS | | | | | | | | | | |
| FABRICATION MATERIALS | | | | | | | | | | |
| PS NO | DESCRIPTION | | | NS (MM) | ITEM CODE | QTY. | HOLD | | | |
| 1 | PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B13STD> (L-7806) | | | 3 | I117921 | 1.5 M | | | | |
| 2 | FITTINGS ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <EREAA200F315151415> (L-7959) | | | 3X2 | I128082 | 2 | | | | |
| 3 | REDUCING TEE ASME B16.9 A234-WPB BE SMLS C32DC04V02 S-STD x <TRBA200F315151415> (L-9917) | | | 3X2 | I213038 | 2 | | | | |
| 4 | REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V01 NREQD <SOKA300LB01511> (L-343) | | | 3X3/4 | I1651368 | 1 | | | | |
| 5 | 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F33STD> (L-7955) | | | 3 | I128599 | 1 | | | | |
| 6 | FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFCA4BV05 S-STD <WNFA300R353STD> (L-236) | | | 3 | I4217853 | 1 | | | | |
| 7 | WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFCA4BV05 S-STD <WNFA300R352STD> (L-236) | | | 2 | I5355797 | 2 | | | | |
| ERECTION MATERIALS | | | | | | | | | | |
| PS NO | DESCRIPTION | | | NS (MM) | ITEM CODE | QTY. | HOLD | | | |
| 8 | GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP11512 <N/A> (N/A) | | | 2 | I63508961 | 2 | | | | |
| 9 | BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/194-2H INCH SIZE I010B0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 90 mm Length | | | 5/8 | I53437440 | 16 | | | | |
| 10 | INSTRUMENTS INSTRUMENT COMPONENT 19FT4033 | | | 2 | | 1 | | | | |
| 11 | SUPPORTS STANDARD GUIDE FOR NOT INS, PIPING-N1G1 | | | 3 | 224 | 1 | | | | |
| 12 | STAKES SUPPORTS ST02 HEA100 | | | 3 | 224 | 1 | | | | |
| 13 | STANDARD GUIDE FOR NOT INS, PIPING-N1G1 | | | 3 | 223 | 1 | | | | |
| 14 | STAKES SUPPORTS ST01 HEA100 | | | 3 | 223 | 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) | SIZE (IN) | LENGTH (MM) |
| <1> | 331 | 3" | S01 | S | 3" | BW | BJ01 BJ02 | 2" 2" | 5/8" 5/8" | 90 90 |
| <2> | 474 | 3" | S02 | S | 3" | BW | | | | |
| <3> | 940 740 | 3" | S03 | S | 2" | BW | | | | |
| | | | S04 | S | 2" | BW | | | | |
| | | | S05 | S | 3" | BW | | | | |
| | | | S06 | S | 3" | BW | | | | |
| | | | F08 | F | 3/4" | OL | | | | |
| | | | S09 | S | 3" | BW | | | | |
| | | | S10 | S | 3" | BW | | | | |
| | | | S11 | S | 3" | BW | | | | |
| | | | | | | | INCH METER | | | |
| | | | | | | | PIPE NS (IN) | | CL LENGTH (M) | |
| | | | | | | | 3 | | 2.8 | |
| | | | | | | | 2 | | 1.0 | |
| ISOMETRIC NO. 4274-SP-XH-DL-2121-ET40F04-1-IS00 | | | | | | | | | SPOOLING REV NO. 000 | |