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| <br>Tecnimont S.p.A. | <br>REPSOL POLIMEROS SA | 4274_CONST<br>4274-ALBA PROJECT-PP AND PEL PLANTS            |  |
| MOD-ITP-XL_220 RELEASE OF SPOOLS FROM WORKSHOP<br>Rev.1   |  | Report n° IP-WSR-P-310-000017_MOD-ITP-XL_220<br>RFI Nr.: 396 | Date :  |
| Unit -  |  |  |   |
| Plant Area -  |  |  |   |
| Isometric Number  |  |  |   |
| Inspection Package Number IP-WSR-P-310-000017 - IP Spool Release From Workshop                        |  |  |   |

Sheet 01/01

The Present Inspection Package contains the following Elements:


1211-CWS89032-1-SP04;1211-CWS89032-1-SP03;1211-FW68J01-4-SP08;1211-FW68J01-4-SP07;2121-VA40B02-2-SP04;2121-VA40B02-2-SP03;2121-VA40B02-1-SP02;2121-VA40B02-1-SP01;2121-MS91A01-1-SP13;2121-MS91A01-1-SP12;2121-MS91A01-1-SP11;2121-VG40N11-2-SP10;2121-VG40N11-2-SP09;2121-VG40N11-1-SP02;2121-VG40N11-1-SP01;2121-VA49A08-1-SP01;2121-VA49A05-3-SP05;2121-VA40Z10-1-SP01;2121-VA40Y02-3-SP07;2121-VA40Y02-3-SP06;2121-VA40Y02-2-SP05;2121-VA40Y02-2-SP04;2121-VA40Y02-2-SP03;2121-VA40U05-1-SP01;2121-VA40P04-1-SP01;7111-CWS64009-1-SP01;7111-PA89021-6-SP14;7111-PA89021-6-SP13;7111-N89001-6-SP12;7111-N00D01-1-SP01;1121-BDL43019-6-SP06;1121-BDL43019-6-SP05;1121-BDL43019-3-SP01;1121-BDL31031-3-SP05;1121-JWR64002-1-SP02;1121-JWR64002-1-SP01;1121-JWR40005-1-SP02;1121-JWR40005-1-SP01;121-PN52015-2-SP01

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"

  
 JOAQUIM PINTO  
 PIPING SUP.  
 Joaquim Pinto

| 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          | 09-11-2023   | Patricia Teixeira                                      | Patricia Teixeira   |                           |
| CONTRACTOR             | 09-11-2023   | Luis G... ..   | Luis G... ..        |                           |
| COMPANY                |  |  |                     |                           |
| (Free)                 |  |  |                     |                           |

  
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# ISO Summary List

# 22635 / 1484

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-VA40Y02-2**

Revision **00**

Priority **6**

Piping Size/Class **2-1C17**

PED Category **Art 4.3**
**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 |
|-------|-------|-------|---|-----------|----------------|-------------------------------|------------------------|----------|--------------------|----------|-----------|---------------|------------|--------|--------|-------------|-------------|
| 03    | S10   | BW    | 2" PIPE - A106-B BE SMLS<br>2" 45 LR ELBOW ASME B16.9 A234-WPB BE S | 16<br>393 | 23101884<br>93 | 23310545<br>CE23002007_3.1_01 | 5.Vareta<br>PVX1312824 | MW.20_BW | 29/09/2023<br>S138 | VT-I-037 |           | RT: RT-I-0183 |            |        |        |             |             |
| 04    | S12   | BW    | 2" PIPE - A106-B BE SMLS<br>2" 45 LR ELBOW ASME B16.9 A234-WPB BE S | 16<br>393 | 23101884<br>93 | 23310545<br>CE23002007_3.1_01 | 5.Vareta<br>PVX1312824 | MW.20_BW | 29/09/2023<br>S138 | VT-I-037 |           |               |            |        |        |             |             |
| 05    | S14   | BW    | 2" PIPE - A106-B BE SMLS<br>2" 90 LR ELBOW ASME B16.9 A234-WPB BE S | 16<br>339 | 23101884<br>73 | 23310545<br>CE23001995_3.1_01 | 5.Vareta<br>PVX1312824 | MW.20_BW | 29/09/2023<br>S138 | VT-I-037 |           |               |            |        |        |             |             |
| 06    | S15   | BW    | 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S<br>2" PIPE - A106-B BE SMLS | 339<br>16 | 73<br>23101884 | CE23001995_3.1_01<br>23310545 | 5.Vareta<br>PVX1312824 | MW.20_BW | 29/09/2023<br>S138 | VT-I-037 |           |               |            |        |        |             |             |
| 08    | S17   | BW    | 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S<br>2" PIPE - A106-B BE SMLS | 339<br>16 | 73<br>23101884 | CE23001995_3.1_01<br>23310545 | 5.Vareta<br>PVX1312824 | MW.20_BW | 04/10/2023<br>S138 | VT-I-040 |           |               |            |        |        |             |             |
| 09    | S18   | BW    | 2" PIPE - A106-B BE SMLS<br>2" 90 LR ELBOW ASME B16.9 A234-WPB BE S | 16<br>339 | 23101884<br>73 | 23310545<br>CE23001995_3.1_01 | 5.Vareta<br>PVX1312824 | MW.20_BW | 04/10/2023<br>S138 | VT-I-040 |           |               |            |        |        |             |             |
| 10    | S19   | BW    | 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S<br>2" PIPE - A106-B BE SMLS | 339<br>16 | 73<br>23101884 | CE23001995_3.1_01<br>23310545 | 5.Vareta<br>PVX1312824 | MW.20_BW | 04/10/2023<br>S138 | VT-I-040 |           |               |            |        |        |             |             |
| 11    | S11   | BW    | 2" 45 LR ELBOW ASME B16.9 A234-WPB BE S<br>2" PIPE - A106-B BE SMLS | 393<br>16 | 93<br>23101884 | CE23002007_3.1_01<br>23310545 | 5.Vareta<br>PVX1312824 | MW.20_BW | 29/09/2023<br>S138 | VT-I-037 |           |               |            |        |        |             |             |

## 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

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Date:

Sign:

## APPROVED by Client

Name:

Date:

Sign:

## APPROVED by 3rd party or AI

Name:

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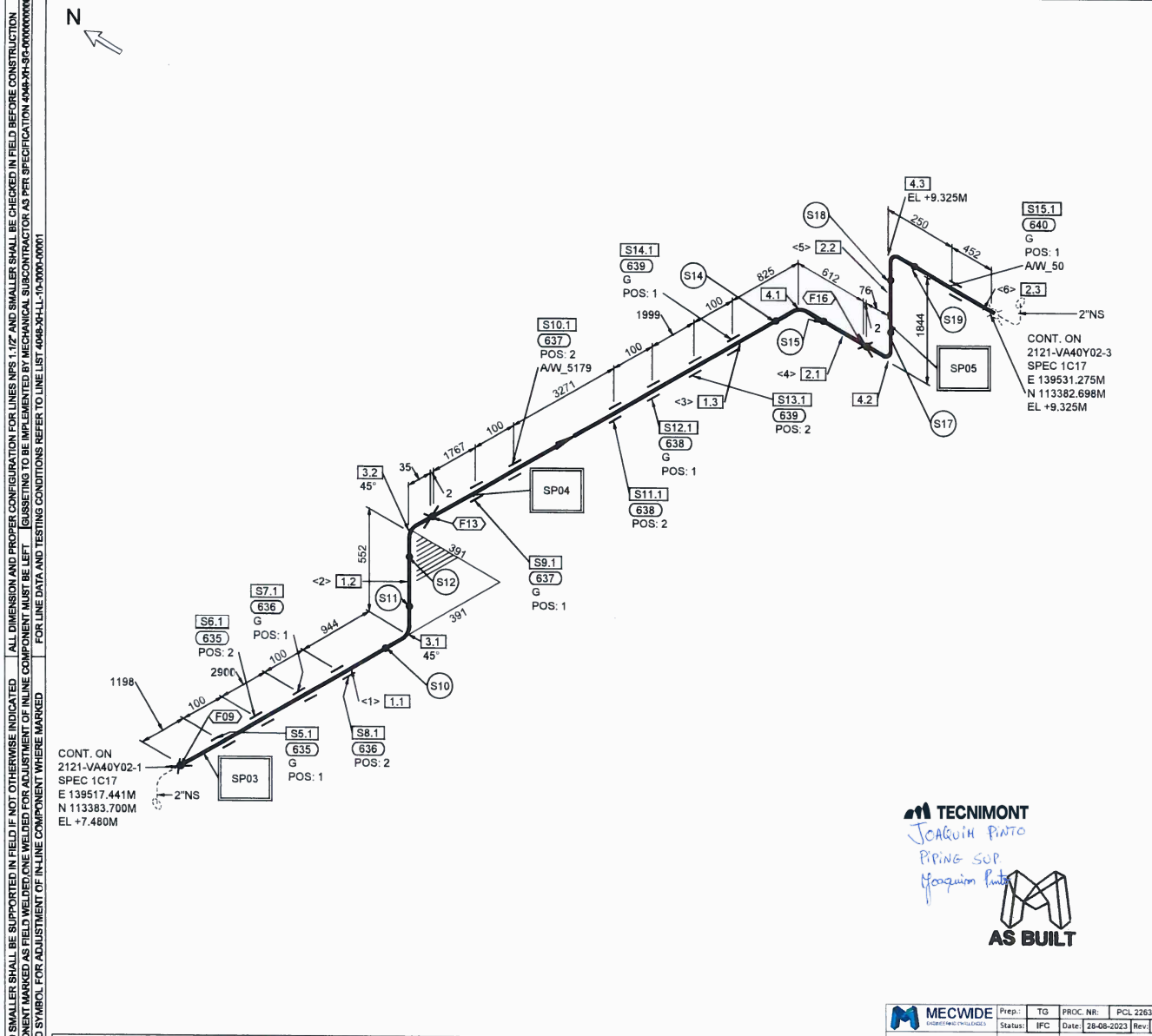




ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION FOR THE COMPONENT MARKED AS FIELD WELDED ONE WELDED FOR ADJUSTMENT OF IN-LINE COMPONENT MUST BE LEFT FOR ADJUSTMENT OF IN-LINE COMPONENT WHERE MARKED FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4048-XH-L-11-0000-00001

| REPSOL |            |                         |          | LINE DATA |       |                       |                                 |
|--------|------------|-------------------------|----------|-----------|-------|-----------------------|---------------------------------|
| 00     | 28-08-2023 | ISSUED FOR CONSTRUCTION | TG       | MV        | TM    | FLUID CODE: VA        | LINE NO. 2"-VA-40Y02-1C17       |
| REV    | DATE       | REVISION DESCRIPTION    | DRAWN UP | CHKD UP   | APP'D | PIPING MATERIAL CLASS | INSULATION                      |
|        |            |                         |          |           |       | 1C17                  | N / O                           |
|        |            |                         |          |           |       | WELD CLASS            | E                               |
|        |            |                         |          |           |       | HEAT TREATMENT        | N                               |
|        |            |                         |          |           |       | PAINTING CODE         | 1                               |
|        |            |                         |          |           |       | P&ID No.              | 19-A-19-000-1-01-00001 sheet 50 |

| TECNIMONT                       |                              |                                 |      | IDENTIFICATION CODE |      |      |         |
|---------------------------------|------------------------------|---------------------------------|------|---------------------|------|------|---------|
| PLANT: SINES INDUSTRIAL COMPLEX | CLIENT REF: REPSOL POLYMEROS | Job                             | 4274 | Area                | 2121 | Area | VA40Y02 |
|                                 |                              | UNIT                            | 19   | SHEET               | 2    | REV  | 00      |
| PIPING ASSEMBLY DRAWING         | PIPING SUPPORT SPECIFICATION | PIPING STANDARD SUPPORT SUMMARY |      |                     |      |      |         |
| PIPING ISOMETRIC LIST           | PIPING TYPICAL INSTALLATIONS | WELDING SPECIFICATION           |      |                     |      |      |         |



| BILL OF MATERIALS     |   |         |           |        |
|-----------------------|---|---------|-----------|--------|
| FABRICATION MATERIALS |   |         |           |        |
| PS NO                 | DESCRIPTION   | NS (MM) | ITEM CODE | QTY.   |
| 1                     | PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806)                   | 2       | I117862   | 13.8 M |
| 2                     | PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806)                   | 2       | I117862   | 2.9 M  |
| 3                     | 45 LR ELBOW ASME B16.9 A234-WPB BE SMLS C02DC04V01 S-STD <45LA200F32STD> (L-7956) | 2       | I210283   | 2      |
| 4                     | 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F32STD> (L-7955) | 2       | I128529   | 3      |
| ERECTION MATERIALS    |   |         |           |        |
| PS NO                 | DESCRIPTION   | NS (MM) | ITEM CODE | QTY.   |
| 5                     | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 635       | 1      |
| 6                     | VERTICAL STAKES WELDED TO STR. ST42 L100X100X10                                   | 2       | 635       | 1      |
| 7                     | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 636       | 1      |
| 8                     | VERTICAL STAKES WELDED TO STR. ST42 L100X100X10                                   | 2       | 636       | 1      |
| 9                     | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 637       | 1      |
| 10                    | VERTICAL STAKES WELDED TO STR. ST42 L100X100X10                                   | 2       | 637       | 1      |
| 11                    | VERTICAL STAKES WELDED TO STR. ST42 L100X100X10                                   | 2       | 638       | 1      |
| 12                    | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 638       | 1      |
| 13                    | VERTICAL STAKES WELDED TO STR. ST42 L100X100X10                                   | 2       | 639       | 1      |
| 14                    | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 639       | 1      |
| 15                    | STANDARD GUIDE FOR NOT INS. PIPING-N1G1   | 2       | 640       | 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>      | 5205        | 2"        | F09       | F         | 2"        | BW        |              |                 |               |             |
| <2>      | 478         | 2"        | S10       | S         | 2"        | BW        |              |                 |               |             |
| <3>      | 8084        | 2"        | S11       | S         | 2"        | BW        |              |                 |               |             |
| <4>      | 534         | 2"        | S12       | S         | 2"        | BW        |              |                 |               |             |
| <5>      | 1688        | 2"        | F13       | F         | 2"        | BW        |              |                 |               |             |
| <6>      | 624         | 2"        | S14       | S         | 2"        | BW        |              |                 |               |             |
|          |             |           | S15       | S         | 2"        | BW        |              |                 |               |             |
|          |             |           | F16       | F         | 2"        | BW        |              |                 |               |             |
|          |             |           | S17       | S         | 2"        | BW        |              |                 |               |             |
|          |             |           | S18       | S         | 2"        | BW        |              |                 |               |             |
|          |             |           | S19       | S         | 2"        | BW        |              |                 |               |             |
|          |             |           |           |           |           |           | INCH METER   |                 |               |             |
|          |             |           |           |           |           |           | PIPE NS (IN) |                 | CL LENGTH (M) |             |
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TECNIMONT  
JOAQUIN PINTO  
PIPING SUP.  
Joaoquin Pinto  
AS BUILT

|  |             |                     |
|--|-------------|---------------------|
| M MECWIDE  | Prep.: TG   | Proc. NR: PCL 22635 |
| Dimensional:   | Status: IFC | Date: 28-08-2023    |
| Before Welding:  | Signature:  | Rev: 00             |
| After Welding:   | Signature:  |                     |
| * Assinale deviation in the drawings (* n. n. n.)  |             |                     |
| Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK) |             |                     |

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

|  |              |                     |           |                     |                  |            |  |
|--|--------------|---------------------|-----------|---------------------|------------------|------------|--|
| 1 DENOTES PARTS LIST NO  | PIPE SUPPORT | A = RESTING SUPPORT | G = GUIDE | F = AXIAL RESTRAINT | B = GUIDE + STOP | M = SPRING | PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT |
| WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE |              |                     |           |                     |                  |            |  |