

 TECNIMONT Tecnimont S.p.A.	 REPSOL 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-310-000132_RFI2478_MOD-ITP-XL_220	
		RFI Nr.:	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000132_RFI2478 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

2121-CYG40B02-1-SP01;1121-P23024-4-SP02;1121-P23024-4-SP01;1121-P40031-5-SP02;1121-P40031-5-SP01;1121-P40031-2-SP06;1121-P40031-2-SP05;1121-P40031-2-SP04;2121-CYG40B02-1-SP02;1121-P23026-4-SP02;1121-P40031-5-SP03

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*  
14/05/2024

 TECNIMONT

I.D. Polifronescu R. ☒  
NW I W ☐

*14/05/24*

 SGS

NoBo 1155

*14/05/2024*

☒ reviewed by  
☐ witnessed by

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	14/05/2024	Patricia Teixeira	<i>Patricia Teixeira</i>	
CONTRACTOR				
COMPANY				
(Free)				



# ISO Summary List

# 22635 / 1454  
Page 1

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

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

% RT/UT  
% PT/MT

ISO # **2121-CYG40B02-1**  
Piping Size/Class **42-1E87**

Revision **01**  
PED Category **III**

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
01	S01	BW	42x42" WN FLANGE ASME B16.47-B 300# A10 42" 45 LR ELBOW ASME B16.9 A420-WPL6 BE	38 281	75HC22 627981 ✓	225129 CE23006974_3.1_01	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	21/03/2024 S260	BRC-M-012		RT: RT-I-0606					
02	S02	BW	42" 45 LR ELBOW ASME B16.9 A420-WPL6 BE 42" PIPE - A671-CC60 BE EFW CL.22 SUPPL	281 42	627981 ✓ VK641507 ✓	CE23006974_3.1_01 DSC-23-080-06	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	19/03/2024 Q8_260	BRC-M-012		RT: RT-I-0606					
03	S03	BW	42" PIPE - A671-CC60 BE EFW CL.22 SUPPL 42x42" WN FLANGE ASME B16.47-B 300# A10	42 38	VK641507 ✓ 75HC22 ✓	DSC-23-080-06 225129	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	21/03/2024 S08	BRC-M-012		RT: RT-I-0606					
04	S04	BW	42x42" WN FLANGE ASME B16.47-B 300# A10 42" 90 LR ELBOW ASME B16.9 A420-WPL6 BE	38 80	75HC22 ✓ 58131 ✓	225129 CE23005153_3.1_01	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	15/03/2024 S287	BRC-M-012		RT: RT-I-584					
05	S05	BW	42" 90 LR ELBOW ASME B16.9 A420-WPL6 BE 42x42" WN FLANGE ASME B16.47-B 300# A10	80 38	58131 ✓ 75HC22 ✓	CE23005153_3.1_01 225129	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	15/03/2024 S260	BRC-M-012		RT: RT-I-584					
02	S05-RP1	BW	42" 90 LR ELBOW ASME B16.9 A420-WPL6 BE 42x42" WN FLANGE ASME B16.47-B 300# A10	80 38	58131 ✓ 75HC22 ✓	CE23005153_3.1_01 225129	21:Vareta F - PVX4712033 20:Eletrodo - SBX2612148	MW.22_BW	19/03/2024 S260	BRC-M-012		RT: RT-I-007R				RT: RT-I-007E	RT: RT-I-007E

## 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: *14/05/2024*  
Sign: *Patricia Texeira*

## APPROVED by Client

Name: **TECNIMONT**  
Date: *14/05/2024*  
Sign: *I.D. Polifronescu R*

## APPROVED by 3rd party or AI

Name: *JOAO MORAES*  
Date: *14/05/2024*  
Sign: *SGS*

NoBo 1155 ☒ reviewed by ☐ witnessed by







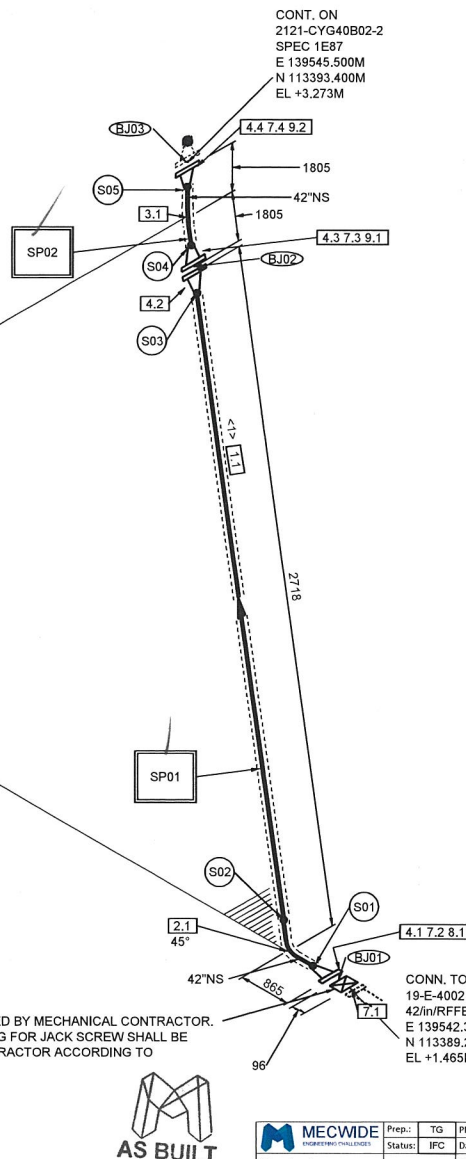
**TECNIMONT**  
**Pinto Joaquim**  
**Mechanical Piping Spv.**  
*Joaquim Pinto*  
*17/04/2024*

**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
	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



**MIR04**

6.1/5.1

JACK SCREWS TO BE SUPPLIED BY MECHANICAL CONTRACTOR.  
THE DRILLING AND THREADING FOR JACK SCREW SHALL BE  
DONE BY MECHANICAL CONTRACTOR ACCORDING TO  
PE-L-0100.13 "JACK SCREW".



 <b>MECWIDE</b> ENGINEERING CHALLENGES	Prep.: TG	PROC. NR:	PCL 22635
	Status: IFC	Date: 28-08-2023	Rev: 01
Dimensional:	Signature:		
Before Welding			
After Welding			
* Assinale deviation in the drawings ("+" or "-" or "n"). Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)			

Dimensional:		Signature:
Before Welding	<u>14/3/24</u>	
After Welding	<u>22/3/24</u>	
<p>* Assinalate deviation in the drawings (" + n " or " - n ").</p> <p>Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK)</p>		



PIPING ISOMETRIC

PLANT: SINES INDUSTRIAL COMPLEX
---------------------------------

CLIENT REF: REPSOL POLYMERS
-----------------------------

REFERENCES	EC T N
	19-L-19-000-2-00-86198 sheet 1
EC T N	
PIPING ISOMETRIC LIST	XH-LD-21210001

PIPING SUPPORT SPECIFICATION	E X
PIPING TYPICAL INSTALLATIONS	E X

C T N					E C T N
H-SG-00000002	PIPING STANDARD SUPPORT SUMMARY				XH-LP-000000
C T N					E C T N
H-SL-00000002	WELDING SPECIFICATION				XH-SW-000000

### BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOL
1	PIPE PIPE - A671-CC60 BE ERW CL.22 SUPPL. REQ. S2 T01AC27V10 S-20.62 <PIPA030B1420.812> (L-PIP119)	42	163792632	1.9 M	
2	FITTINGS 45 LR ELBOW ASME B16.9 A420-WPL6 BE WELD C02DC09V02 S-20.62 <45L21WF3420.812> (L-45L44-W)	42	19328187	1	
3	90 LR ELBOW ASME B16.9 A420-WPL6 BE WELD C01DC09V02 S-20.62 <90L21WF3420.812> (L-90L50-W)	42	17519052	1	
4	FLANGES WN FLANGE ASME B16.47-B 300# A105N RFFE BE 125 - 250 AARH F01MFC44BV05 S-20.62 <WNFA300R36420.812> (L-8519)	42	163598454	4	
5	MISCELLANEOUS COMPONENTS SPACER RING YH-ST-D05 300# A516-70 NORM. FTFBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.47-B D0505FC65C07 <N/A> (N/A)	42	163463479	1	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOL
6	FITTINGS BLIND DISC YH-ST-D05 300# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.47-B D0405FC65007 NREQD <N/A> (N/A)	42	163463461	1	
7	GASKETS JACKETED GASKET ASME B16.20 300# RFFE SS 316 / GRAPHOIL Gr. GTH 125 - 250 AARH 3.2 mmTHICK 3 PLY CORRUGATED INTERNAL DIAMETER=1025.76mm ASME B16.47-B - G04GF83BE06 <N/A> (N/A)	42	165334812	4	
8	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <- - 2 NUTS PER BOLT - 450 mm Length	1.3/4	165397373	36	
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G13/4133/4> - 2 NUTS PER BOLT - 355 mm Length	1.3/4	153439069	72	

CUT 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>	1849	42"	S01	S	42"	BW	BJ01	42"	1.3/4"	450
			S02	S	42"	BW	BJ02	42"	1.3/4"	355
			S03	S	42"	BW	BJ03	42"	1.3/4"	355
			S04	S	42"	BW				
			S05	S	42"	BW				
INCH METER										
PIPE NS (IN)								CL LENGTH (M)		
42 0								7.2 0		
ISOMETRIC NO. 4274-SP-XH-DI -2121-CYG40R02-1-IS01									SPOOLING REV. NO. 0	

SHEET NO. 1 OF 1