

 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-310-000120_RFI2220_MOD-ITP-XL_220	
		RFI Nr.:	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000120_RFI2220 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:




2121-VRG52A10-2-SP04;2121-VRG52A10-2-SP03;2121-VRG52A10-2-SP02;1121-PR43048-2-SP03;2121-VRG52A10-1-SP01;2121-FL40B04-1-SP01;2121-FL40K01-2-SP02;1121-PR40026-2-SP03;1121-PR40026-2-SP02;1121-PR40026-2-SP01;1121-HCM24078-6-SP11;1121-HCM24078-5-SP10-ZZ;1121-HCM24078-5-SP09;2121-FL40C01-1-SP01;1121-PR43027-4-SP10;1121-PR43027-4-SP09;1121-PR43027-4-SP08;1121-PR43027-4-SP07;1121-PR43027-4-SP06;1121-HCM24082-2-SP04;1121-HCM24082-2-SP05;1121-HCM24082-2-SP03;1121-PR43037-3-SP08;1121-PR43037-3-SP07;1121-PR43037-3-SP06;1121-PR43037-3-SP05;1121-PR43037-2-SP01;1121-PR33019-4-SP06;1121-PR33019-4-SP05;1121-PR24034-5-SP12;1121-PR24034-5-SP11;1121-PR24034-5-SP10;1121-PR23031-2-SP05;1121-PR23031-1-SP07;1121-PR23031-1-SP06-ZZ;1121-CHWS24002-2-SP02;2121-VRG41B09-5-SP09;2121-VRG41B09-5-SP08;2121-VRG41B09-5-SP07;2121-VRG41B09-5-SP06;2121-ET40J06-2-SP05;2121-ET40J06-2-SP04;2121-ET40J06-2-SP03;1121-ET71039-5-SP04;1121-ET71039-5-SP03;1121-ET71039-5-SP02;1121-ET71039-5-SP01;1121-ET71039-4-SP05;1121-VA23003-2-SP06;1121-VA23003-2-SP05;1121-VA23003-2-SP04-ZZ;1121-VA23003-1-SP03;1121-VA23003-1-SP02;1121-VA23003-1-SP01;1121-PR24038-1-SP03;1121-PR24038-1-SP02;1121-PR24038-1-SP01;1121-PR36015-1-SP02;1121-PR36015-1-SP01;1121-HCM31022-2-SP04;1121-HCM31022-2-SP03;1121-HCM31022-2-SP02;1121-HCM24081-2-SP02;1121-HCM24081-2-SP01;1121-HCM24052-1-SP04;1121-HCM24052-1-SP03;1121-HCM24052-1-SP02;1121-HCM24052-1-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"

 L. Gomes NWI	 Pinto Joaquim Mechanical Piping Spv. Joaquim Pinto 02/05/2024	 NoBo 1155 02/05/2024
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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
SUBCONTRACTOR	Date [DD-MMM-YYYY] 02/05/2024	Name Patricia Teixeira	Signature Patricia Teixeira	
CONTRACTOR				
COMPANY				
(Free)				

QC

ISO Summary List

22635 / 1775
Page 1

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

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

% RT/UT
% PT/MT

ISO # **2121-FL40C01-1**
Piping Size/Class **10-B32S1**

Revision **00**
PED Category **II**

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
03	01	S01	BW	10x10" WN FLANGE ASME B16.5 150# A350-L ✓	TCM	2A15426 ✓	BLD-25-0525-020	11:Eletrodo F - SFX0610630	MW.24_BW	19/12/2023	VT-I-092						
			10" PIPE - A333-6 BE SMLS ✓	458	23303872 ✓	23062079	18:Vareta F - PVX2910998			B371							
04	01	S02	BW	10" PIPE - A333-6 BE SMLS ✓	458	23303872 ✓	23062079	11:Eletrodo F - SFX0610630	MW.24_BW	20/12/2023	VT-I-093						
			10" 90 LR ELBOW ASME B16.9 A420-WPL6 BE ✓	591	38902 ✓	CE23004186_3.1_01	18:Vareta F - PVX2910998			S281							
05	01	S03	BW	10" 90 LR ELBOW ASME B16.9 A420-WPL6 BE ✓	591	38902 ✓	CE23004186_3.1_01	11:Eletrodo F - SFX0610630	MW.24_BW	19/12/2023	VT-I-092						
			10" PIPE - A333-6 BE SMLS ✓	458	23303872 ✓	23062079	18:Vareta F - PVX2910998			S281							
06	01	S04	OL	10" PIPE - A333-6 BE SMLS ✓	458	23303872 ✓	23062079	11:Eletrodo F - SFX0610630	MW.23_SBR	19/12/2023	VT-I-092						
			10x.75" REDUCING SOCKOLET MSS SP-97 300 ✓	TCM	S22001200QX	2023-03-225-45	18:Vareta F - PVX2910998			S281	MT: MT-I-060-A						
07	01	S07	BW	10" PIPE - A333-6 BE SMLS ✓	458	23303872 ✓	23062079	11:Eletrodo F - SFX0610630	MW.24_BW	19/12/2023	VT-I-092						
			10x6" ECCENTRIC REDUCER ASME B16.9 A420 ✓	150	L77858 ✓	0012023-29	18:Vareta F - PVX2910998			S281							
08	01	S08	BW	10x6" ECCENTRIC REDUCER ASME B16.9 A420 ✓	150	L77858 ✓	0012023-29	11:Eletrodo F - SFX0610630	MW.24_BW	19/12/2023	VT-I-092						
			6x6" WN FLANGE ASME B16.5 150# A350-LF2 ✓	TCM	2A15426 ✓	BLD-25-0525-020	18:Vareta F - PVX2910998			S281							

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: *02/05/2024*
Sign: *Patricia Teixeira*

APPROVED by Client

Name: *TECNIMONT*
Date: *L. Gomes*
Sign: *NWI*

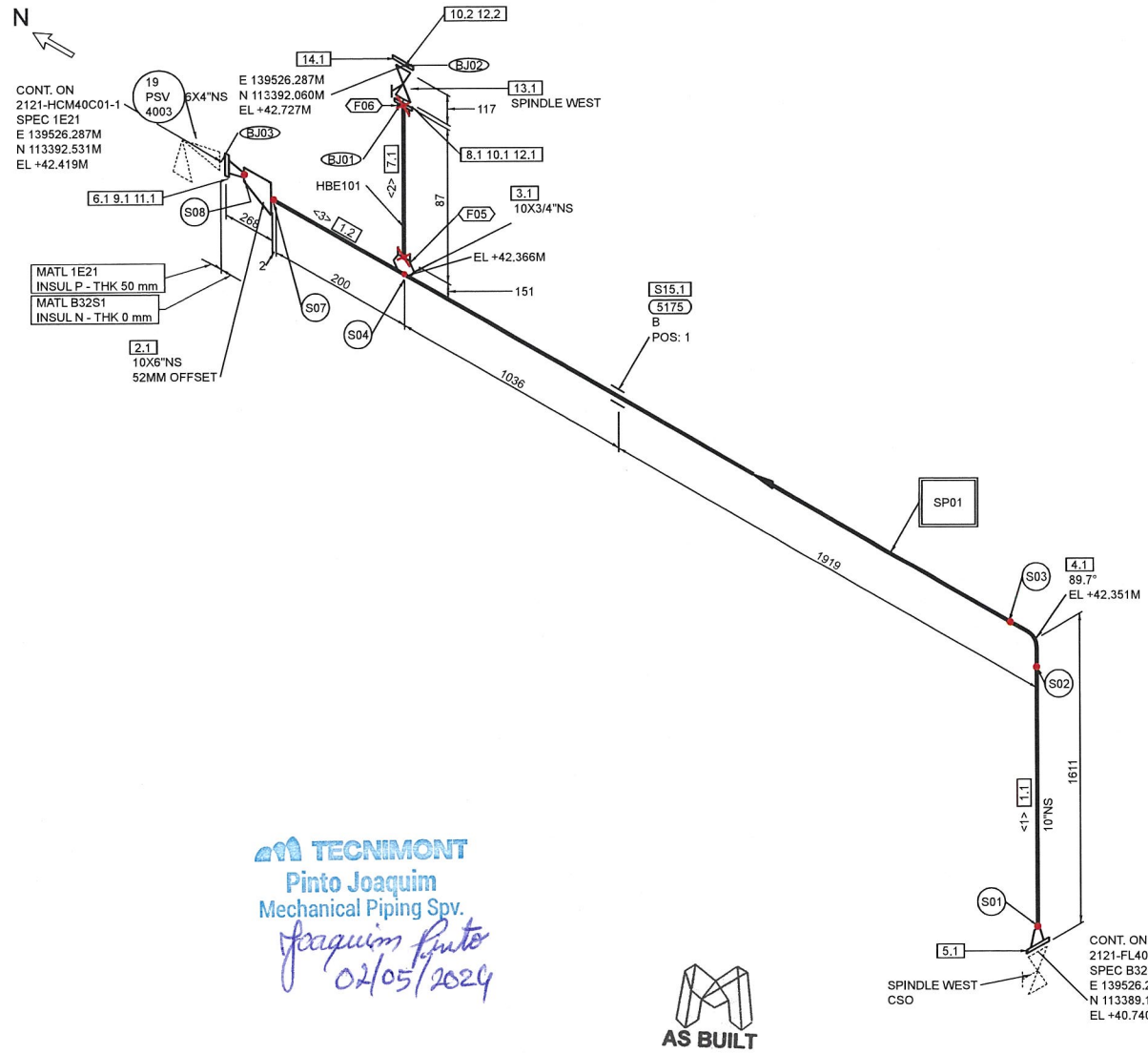
APPROVED by 3rd party or AI

Name: *Jon Surry*
Date: *02/05/2024*
Sign: *Jon Surry*



FLUID CODE: FL				LINE DATA			
PIPING MATERIAL CLASS				LINE NO. 10"-FL-40C01-B32S1			
INSULATION				P&ID No.			
WELD CLASS				19-A-19-000-1-01-00001 sheet 31			
HEAT TREATMENT				MIR39			
PAINTING CODE							
REV				DATE			
ISSUED FOR CONSTRUCTION				06-09-2023			
REVISION DESCRIPTION				DRAWN UP			
TG				MW			
TM				CHKD UP			
APP'D							

Technimont		PIPING ISOMETRIC		IDENTIFICATION CODE			
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		Job	ETC	Area	N
				4274	XHDL	2121	FL40C01
				UNIT	19	SHEET	1
				REV	00		
REFERENCES		E C T N		E C T N		E C T N	
PIPING ISOMETRIC LIST		19-L-19-000-2-00-85197 sheet 9		PIPING SUPPORT SPECIFICATION		PIPING STANDARD SUPPORT SUMMARY	
		X-H-LD-21210001		X-H-SG-00000002		X-H-LP-00000001	
				PIPING TYPICAL INSTALLATIONS		WELDING SPECIFICATION	
				X-H-SL-00000002		X-H-SW-00000001	



TECNIMONT
Pinto Joaquim
Mechanical Piping Spv.
Joaquim Pinto
02/05/2024



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

JOINT TYPE	HAMEL TYPE OF JOINT	JOINT TYPE	HAMEL TYPE OF JOINT	JOINT TYPE	HAMEL TYPE OF JOINT	JOINT TYPE	HAMEL TYPE OF JOINT
RF	G	SW	S	LFT	LEI	SOW	B
FW	S	SB	B	LF	RF	SOF	S
LA	RF	SLW	S	MTW	M	THD	TH

MECOWIDE		Prep.: TG	PROC. NR: PCL 22635		
Status: IFC		Date: 06-09-2023	Rev: 00		
Dimensional:		Signature:			
Before Welding:		<i>[Signature]</i>			
After Welding:		<i>[Signature]</i>			
* Assinilate deviation in the drawings ("+" or "-" n").					
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)					

BILL OF MATERIALS										
FABRICATION MATERIALS										
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD					
	PIPE									
1	PIPE - A333-6 BE SMLS T01AC22V02 S-20 <PIPL020B11020> (L-8200)	10	I146149	3.9 M						
	FITTINGS									
2	ECCENTRIC REDUCER ASME B16.9 A420-WPL6 BE SMLS C22DC09V01 S-20 S-STD <EREL210F319101715> (L-8238)	10X6	I367939	1						
3	REDUCING SOCKETLET MSS-SP-97 3000W A350-LF2 Class 1 BE SWE - R13DNC07V101 NREQD <SOKL300LB01911> (L-7906)	10X3/4	I368118	1						
4	90 LR ELBOW ASME B16.9 A420-WPL6 BE SMLS C01DC09V01 S-20 <SOLL210F31020> (L-7967)	10	I214677	1						
	ELANGES									
5	WN FLANGE ASME B16.5 150W A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CDC07BV05 S-20 <WNFL300R151020> (L-7971)	10	I140703	1						
6	WN FLANGE ASME B16.5 150W A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CDC07BV05 S-STD <WNFL300R1565TD> (L-7971).	6	I140860	1						
ERECTION MATERIALS										
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD					
	PIPE									
7	PIPE - A333-6 PE SMLS T01AC22Z02 S-XS <PIPL020A134XS> (L-PIPO1)	3/4	I146384	0.1 M						
	ELANGES									
8	SW FLANGE ASME B16.5 150W A350-LF2 Class 1 RFFE SWE 125 - 250 AARH F02CDC07B105 S-XS <SWFL300R1534XS> (L-7970)	3/4	I820457	1						
	GASKETS									
9	SPIRAL WOUND GASKET ASME B16.20 150W RFTBE 316/GRAP LTC5 SS 316 ASME B16.5 G03GDP1IAG8 <N/A> (N/A)	6	I46364689	1						
10	FLAT RING GASKET ASME B16.21 150W RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2QS01 <NMGQ102R1F34> (L-NMG17)	3/4	I1655198	2						
	BOLTS									
11	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/194-7 INCH SIZE I010B5301 <SB2R55G3441/4> - 2 NUTS PER BOLT - 105 mm Length	3/4	I55705083	8						
12	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/194-7 INCH SIZE I010B5301 <SB2R55G1221/2> - 2 NUTS PER BOLT - 65 mm Length	1/2	I55704809	8						
	VALVES /IN-LINE ITEMS									
13	GATE VALVE API 602 150W A350-LF2 Class 1 RFFE 10-316 API 602 L7/7 125 - 250 AARH BB-OS&Y SOW API 602 HW ASME B16.5 V01GDC07BHX1 NREQD <G43_4L-AL011> (L-AL011)	3/4	I63584653	1						
14	BLIND FLANGE ASME B16.5 150W A350-LF2 Class 1 RFFE NREQD 125 - 250 AARH F10CDC07B005 <BLFL300R1534> (L-7972)	3/4	I560221	1						
	SUPPORTS									
15	WELDED ANCHOR <C1B1 H = 100 L = 300	10	5175	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>	1128	10"	S01	S	10"	BW	BJ01	3/4"	1/2"	65
<2>	81	3/4"	S02	S	10"	BW	BJ02	3/4"	1/2"	65
<3>	2774	10"	S03	S	10"	BW	BJ03	6"	3/4"	105
			S04	S	3/4"	OL				
			F05	F	3/4"	SW				
			F06	F	3/4"	SW				
			S07	S	10"	BW				
			S08	S	6"	BW				
INCH METER										
PIPE NS (IN)								CL LENGTH (M)		
6								0.1		
10								8.0		
0.75								0.2		
ISOMETRIC NO. 4274-SP-XH-DL-2121-FL40C01-1-IS00									SPOOLING REV NO. 00	
SHEET NO. 1 OF 4										

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Notes: 1 DENOTES PARTS LIST NO

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

SUPPORT 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