

 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-310-000024_RFI545 MOD-ITP-XL_220	
		RFI Nr.: 545	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000024_RFI545 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

7111-PR52A04-3-SP08;7111-PR52A04-3-SP07;7111-PR52A04-3-SP06;7111-PR52A04-1-SP02;7111-PR52A04-1-SP01;7111-HCM52D01-9-SP26;7111-HCM52D01-9-SP25;7111-HCM52D01-11-SP28;7111-HCM52D01-11-SP27;7111-HCM50E01-3-SP07;7111-HCM50E01-3-SP06;7111-HCM50E01-3-SP05;7111-FL52A07-2-SP04;7111-FL52A07-2-SP03;7111-FL52A07-2-SP02;2211-CWR40B02-2-SP02;2121-VRG41B13-2-SP04;2121-VRG41B13-2-SP03;2121-VRG41B13-2-SP02;2121-HXE10C36-2-SP06;2121-HXE10C36-2-SP05;2121-ET40S05-2-SP03;2121-ET40F05-6-SP11;2121-ET40F05-6-SP10;2121-ET40F05-5-SP08;2121-ET40F04-6-SP18;2121-ET40F04-6-SP17;2121-ET40F04-11-SP06;2121-ET40F04-11-SP05;2121-COM40A01-1-SP01;1121-PR43049-2-SP04;1121-PR43049-2-SP03;1121-PR43049-2-SP02;1121-PR43049-2-SP01;1121-PR34022-1-SP09;1121-PR34022-1-SP08;1121-PR33019-7-SP01;1121-PR22015-4-SP09;1121-PR22015-3-SP08;1121-PR22015-3-SP07;1121-PR22015-1-SP04;1121-PR22015-1-SP03;1121-PR22015-1-SP02;1121-PR22015-1-SP01;1121-JWS24011-1-SP02;1121-JWS24011-1-SP01;1121-JWR24006-2-SP04;1121-JWR24006-2-SP03;1121-JWR24006-1-SP02;1121-JWR24006-1-SP01;1121-HCM40001-1-SP02;1121-HCM40001-1-SP01;1121-HCM31018-2-SP02;1121-HCM31018-2-SP01;1121-HCM24089-3-SP05;1121-HCM24089-3-SP04;1121-HCM23046-2-SP06;1121-CHWS24002-4-SP06;1121-CHWS24002-3-SP05;1121-CHWS24002-3-SP04;1121-CHWS24002-3-SP03;1121-CHWR43010-1-SP03;1121-CHWR43010-1-SP02;1121-CHWR43010-1-SP01;1121-CHWR24003-1-SP02;1121-CHWR24003-1-SP01;1111-FL60004-2-SP03;1111-BDL51015-2-SP02





JOAQUIM PINTO  
 PIPING SUP. TEN  
 Joaquim Pinto 06/12/2023

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 06/12/2023	R W  Patricia Texeira  Luis Gomes	 NoBo 1155 06/12/2023
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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
	Date [DD-MMM-YYYY]	Name	Signature	
SUBCONTRACTOR	06/12/2023	Patricia Texeira	Patricia Texeira	
CONTRACTOR	06/12/2023	Luis Gomes	Luis Gomes	
COMPANY				
(Free)				

# ISO Summary List

# 22635 / 1349

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-ET40F04-11**

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
06	S33	BW	3" PIPE - A106-B BE SMLS	17	23211709	23310546	5-Varela	MW.20_BW	31/08/2023	VT-I-016		RT: RT-I-0117					
05	S25	BW	3x3" WN FLANGE ASME B16.5 300# A105N RF	38	70HC22	225129	PVX1312824		S138								
			3" PIPE - A106-B BE SMLS	17	23211709	23310546	5-Varela	MW.20_BW	31/08/2023	VT-I-016							
			3" 90 LR ELBOW ASME B16.9 A234-WPB BE S	228	215148	CE23002054_3.1_01	PVX1312824		S138								

## 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: *05/12/2023*

Sign: *Patricia Teixeira* QC

## APPROVED by Client

Name: *L. Gomes*

Date: *06/12/2023*

Sign: *L. Gomes*

## APPROVED by 3rd party or AI

Name: *JOE AMORIM*

Date: *06/12/2023*

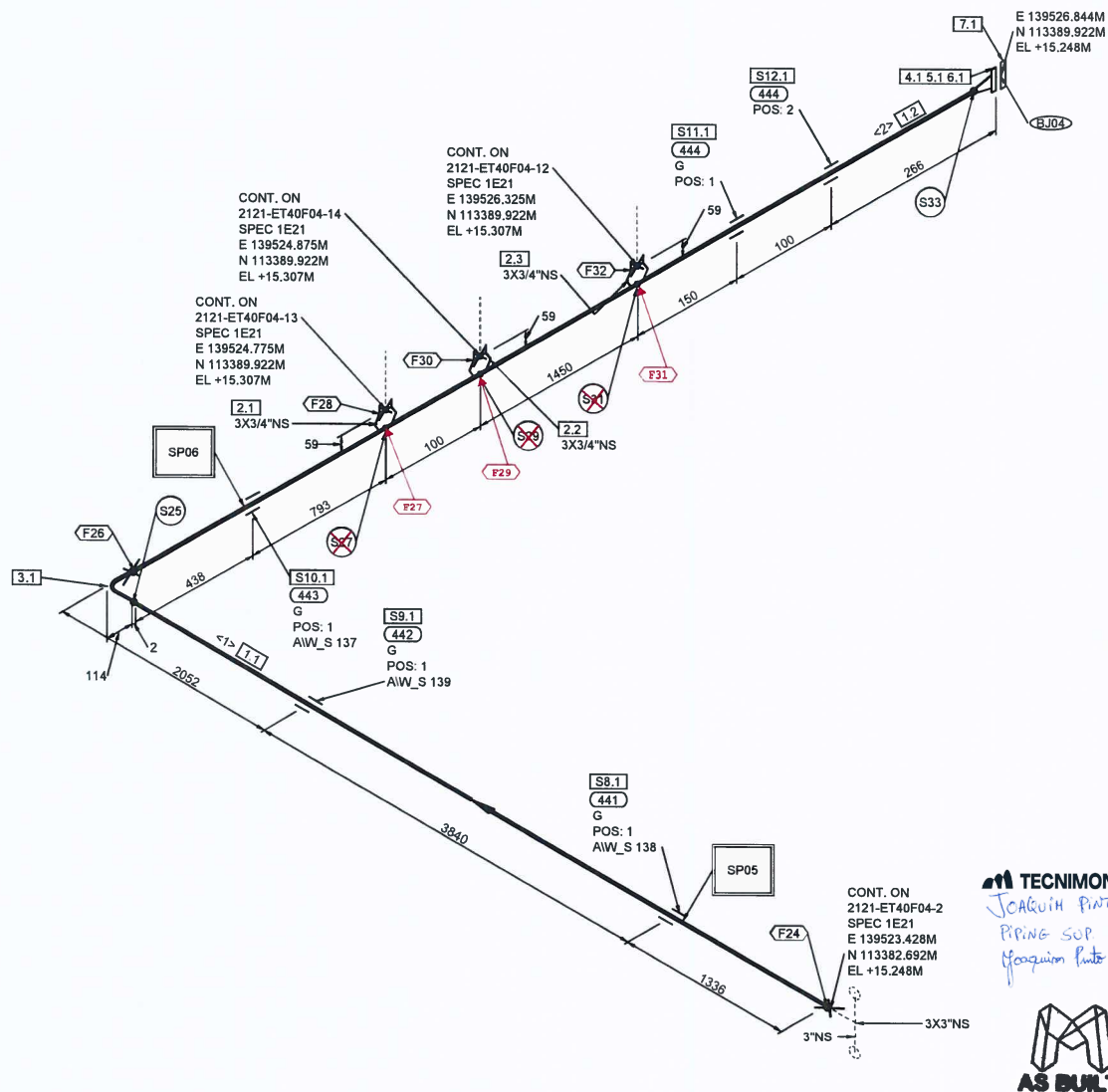
Sign: *JOE AMORIM*

SGS reviewed by  
 NoBo 1155 ☐ witnessed by






						LINE DATA							
						FLUID CODE: ET			LINE NO. 3"-ET-40F04-1E21				
						PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.		
00	22-08-2023	ISSUED FOR CONSTRUCTION			TG	MW	TM						
REV	DATE	REVISION DESCRIPTION			DRAWN UP	CHKD UP	APP'D	1E21	N / 0	E	N	1	19-A-19-000-1-01-00001 sheet 36



**TECNIMONT**  
JOAQUIM PINTO  
PIPING SOP.  
Joaoquim Pinto

**AS BUILT**

		PIPING ISOMETRIC		IDENTIFICATION CODE					
				Job	Sheet	Area	IN		
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		4274	XHDL	2121	ET40F04		
				UNIT	19	SHEET	11	REV	00
REFERENCE	E C N		E C T N		E C T N			E C T N	
	PIPING ACTING/ISSUING		PIPING SUPPORT SPECIFICATION		PIPING STANDARD SUPPORT SUMMARY			PIPING STANDARD SUPPORT SUMMARY	
	TSL-19-0003-C00-66 (96 sheet 4 of 96)		XH-S-G-0000000002		XH-P-S-0000000001			XH-P-S-0000000001	
	E C T N		E C T N		E C T N			E C T N	
	PIPING ISOMETRIC LIST		PIPING MATERIAL INSTALLATIONS		WELDING SPECIFICATION			WELDING SPECIFICATION	
	XH-L-D-212100001		XH-S-L-0000000001		XH-S-W-0000000001			XH-S-W-0000000001	

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	10.4 M	
2	FITTINGS REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWIE - R13DNC44V101 NREGD <SOKA300L801511> (L-343)	3X3/4	I1651368	3	
3	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F33STD> (L-7955)	3	I128599	1	
4	FLANGES WN FLANGE ASME B16.5 300# A105N RFBE BE 125 - 250 AARH F01CFCA4B0V05 S-STD <WNFA300R353STD> (L-236)	3	I4217853	1	

ERECTION MATERIALS					
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
	<u>GASKETS</u>				
5	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1I512 <N/A> (N/A)	3	I63508968	1	
	<u>BOLTS</u>				
6	STUD BOLT&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G3441/4> - 2 NUTS PER BOLT- 110 mm Length	3/4	I53437465	8	
	<u>VALVES / IN-LINE ITEMS</u>				
7	BLIND FLANGE ASME B16.5 300# A105N RFFE NREQD 125 - 250 AARH F100CF44B005 <BLFA300R353> (L-143)	3	I1652388	1	
	<u>SUPPORTS</u>				
8	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	3	441	1	
9	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	3	442	1	
10	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	3	443	1	
11	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	3	444	1	
12	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	3	444	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>	7111	3"	F24	F	3"	BW	BJ04	3"	3/4"	110
<2>	3215	3"	S25	S	3"	BW				
			F26	F	3"	BW				
			<del>600</del> F27	S	3/4"	OL				
			F28	F	3/4"	SW				
			<del>600</del> F29	S	3/4"	OL				
			F30	F	3/4"	SW				
			<del>600</del> F31	S	3/4"	OL				
			F32	F	3/4"	SW				
			S33	S	3"	BW				

INCH METER	
PIPE NS (IN)	CL LENGTH (M)
3	20.5

ISOMETRIC NO. 4274-SP-XH-DL-2121-ET40F04-11-IS00	SPOOLING REV NO. 00
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SHEET NO. 1 OF 1


**AUTHORISED FOR CONSTRUCTION**

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

LEGEND							
JOINT TYPE	HMBL TYPE OF JOINT	JOINT TYPE	HMBL TYPE OF JOINT	JOINT TYPE	HMBL TYPE OF JOINT	JOINT TYPE	HMBL TYPE OF JOINT
SW	Q	SW	S	LET	LET	SOS	S
PW	S	SOS	S	LP	RF	SOP	S
LA	DE	SLM	S	MDW	M	TWD	TL

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

 <b>MECWIDE</b> <small>ENGINEERING &amp; TECHNOLOGY</small>	Prep:	TG	PROC. NR:	PCL 22635
	Status:	IFC	Date:	22-08-2023 Rev: 0
Dimensional:			Signature:	
Before Welding:	30/8/2023		e n	
After Welding:	31/8/2023		e n	
<p>* Assinilate deviation in the drawings (* "n" or "r" ).</p> <p>Autocentral (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)</p>				