

 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. TECH
 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"

TECNIMONT
 L. Gomes
 NWI

Patricia Teixeira

SGS
 NoBo 1155
 06/12/2023

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 Teixeira	Patricia Teixeira	
CONTRACTOR	06/12/2023	Luis Gomes		
COMPANY				
(Free)				

ISO Summary List

22635 / 1321

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-COM40A01-1**

Revision **00**

Priority **6**

Piping Size/Class **2-1E21**

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	2" PIPE - A106-B EE SMLS ✓ 2" 90 LR ELBOW ASME B16.9 A234-WPB EE S ✓	16 339	23101884 ✓ 73 ✓	23310545 CE23001995_3.1_01	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
02	S03	BW	2" 90 LR ELBOW ASME B16.9 A234-WPB EE S ✓ 2" PIPE - A106-B EE SMLS ✓	339 16	73 ✓ 23101884 ✓	CE23001995_3.1_01 23310545	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012		RT: RT-I-0102					
03	S04	BW	2" PIPE - A106-B EE SMLS ✓ 2" STRAIGHT TEE ASME B16.9 A234-WPB EE ✓	16 371	23101884 ✓ 111729 ✓	23310545 CE23002064_3.1_01	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
04	S05	BW	2" STRAIGHT TEE ASME B16.9 A234-WPB EE ✓ 2" PIPE - A106-B EE SMLS ✓	371 16	111729 ✓ 23101884 ✓	CE23002064_3.1_01 23310545	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
05	S06	BW	2" PIPE - A106-B EE SMLS ✓ 2x2" WN FLANGE ASME B16.5 300# A105N RF ✓	16 39	23101884 ✓ B8AV0 ✓	23310545 225263	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
06	S07	BW	2" STRAIGHT TEE ASME B16.9 A234-WPB EE ✓ 2" PIPE - A106-B EE SMLS ✓	371 16	111729 ✓ 23101884 ✓	CE23002064_3.1_01 23310545	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
08	S12	BW	2" PIPE - A106-B EE SMLS ✓ 2x2" WN FLANGE ASME B16.5 300# A105N RF ✓	16 39	23101884 ✓ B8AV0 ✓	23310545 225263	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							
10	S01	BW	2x2" WN FLANGE ASME B16.5 300# A105N RF ✓ 2" PIPE - A106-B EE SMLS ✓	39 16	B8AV0 ✓ 23101884 ✓	225263 23310545	5:Varela PVX1312824	MW.20_BW	28/08/2023 S71	VT-I-012							

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*

APPROVED by Client

Name: **TECNIMONT**

Date: *06/12/2023*

Sign: *L. Gomes NWI*

APPROVED by 3rd party or AI

Name: *João Ambrósio*


Date: *06/12/2023*

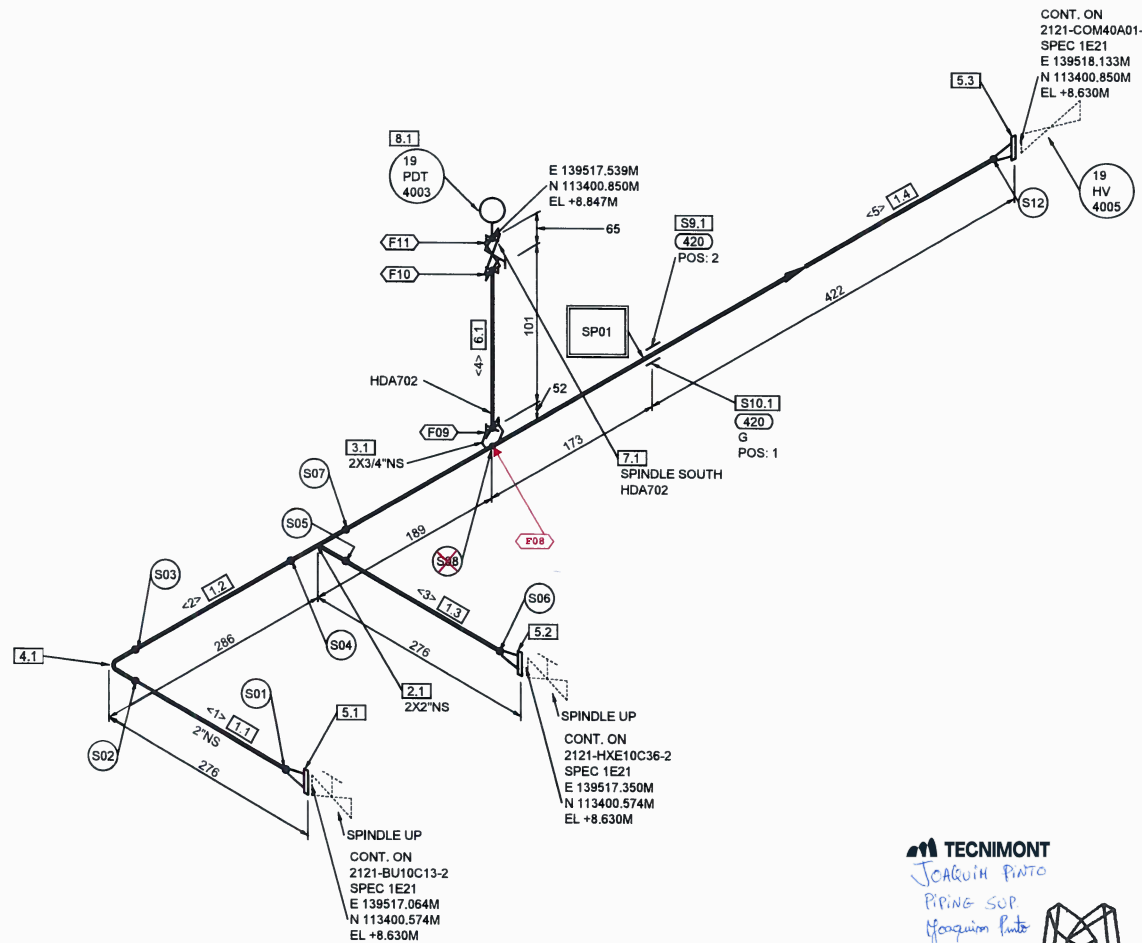
Sign: *SGS*

NoBo 1155 ☐ witnessed by



						LINE DATA							
						FLUID CODE: COM			LINE NO. 2"-COM-40A01-E21				
						PIPING	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.		
00	23-08-2023	ISSUED FOR CONSTRUCTION			TG	MV	TM	MATERIAL CLASS	N / O	E	N	1	19-A-19-000-1-01-00001 sheet 28
REV	DATE	REVISION DESCRIPTION			DRAWN UP	CHKD UP	APPD	1E21	N / O	E	N	1	19-A-19-000-1-01-00001 sheet 28

		PIPING ISOMETRIC		IDENTIFICATION CODE			
				Job	E/C	Area	N
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPOL POLYMERS		4274	XHDL	2121	COM40A01
		UNIT		19	SHEET	1	REV 00
REFERENCES	PFRG ASSEMBLY DRAWING		E C Y N	PFRG STANDARD SUPPORT SUMMARY			
	15L-19-000-00-86197 sheet 3		X H S G-0000000002	E C Y N	X H S G-0000000001		
	PIPING ISOMETRIC LIST		E C Y N	PIPING TYPICAL INSTALLATIONS		WELDING SPECIFICATION	
	XH-LD-21210001		X H S L-0000000002	XH-SL-0000000002		XH-SW-0000000001	



BILL OF MATERIALS					
FABRICATION MATERIALS					
PS NO	DESCRIPTION	NS (M/M)	ITEM CODE	QTY.	HOLD
1	PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806) FITTINGS	2	I117862	1.1 M	
2	STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F314151415> (L-6955)	2X2	I129100	1	
3	REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01411> (L-343)	2X3/4	I7843411	1	
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F32STD> (L-7955) FLANGES	2	I128529	1	
5	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CF044BV05 S-STD <WNFA300R352STD> (L-236)	2	I5355787	3	

ERECTION MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY. HOLD
	<u>PIPE</u>			
6	PIPE - A106-B PE SMLS T01AC03202 S-XS <PIPA010A134XS> (L-6679)	3/4	I132785	0.2 M
	<u>VALVES / IN-LINE ITEMS</u>			
7	GATE VALVE API 602 800# A105N SWE SWE 8-F68HF VIB-OS&Y SOW API 602 HW V01GIC4411BL NREQD <G63_4L-GA1313-B> (L-GA1313-B)	3/4	I10015418	1
	<u>INSTRUMENTS</u>			
8	INSTRUMENT COMPONENT 19PDT4003	3/4		1
	<u>SUPPORTS</u>			
9	STAKES SUPPORTS ST02 L100X100X10	2	420	1
10	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	2	420	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>	126	2"	S01	S	2"	BW				
<2>	142	2"	S02	S	2"	BW				
<3>	138	2"	S03	S	2"	BW				
<4>	101	3/4"	S04	S	2"	BW				
<5>	646	2"	S05	S	2"	BW				
			S06	S	2"	BW				
			S07	S	2"	BW				
			S08 F08	S	3/4"	OL				
			F09	F	3/4"	SW				
			F10	F	3/4"	SW				
			F11	F	3/4"	SW				
			S12	S	2"	BW				

INCH METER	
PIPE NS (IN)	CL LENGTH (M)
2	2.3
0.75	0.2

ISOMETRIC NO. 4274-SP-XH-DL-2121-COM40A01-1-IS00	SPOOLING REV NO. 00
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SHEET NO. 1 OF 1


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<p> <input checked="" type="checkbox"/> </p> <p> ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NOS 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 (SUGGESTING TO BE IMP EMBEDED BY MECHANICAL AS PER SPECIFICATION 4046-93-40-0000000004) </p> <p> <input checked="" type="checkbox"/> </p> <p> FIELD WELD SYMBOL, FOR ADJUSTMENT OF IN-LINE COMPONENT WHERE MARKED </p> <p> FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4046-93-41-10-0000-00001 </p>	<p> ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NOS 1,1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION </p>
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AUTHORISED FOR CONSTRUCTION

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

LEGENDS							
JOINT TYPE	HMEL. TYPE OF JOINT	JOINT TYPE	HMEL. TYPE OF JOINT	JOINT TYPE	HMEL. TYPE OF JOINT	JOINT TYPE	HMEL. TYPE OF JOINT
BW	G	BW	B	LET	LET	SOB	B
FW	B	SB	B	LP	RF	SOP	B
LA	RF	SLW	B	MTW	M	THD	TH

 MEC WIDE <small>WELDING & THERMAL TREATMENT</small>	Prep.: _____	TG _____	PROC. NR.: _____	PCL 22635
	Status: _____	IFC _____	Date: 23-08-2023	Rev: _____
Dimensional: _____			Signature: _____	
Before Welding	27/08/2023			
After Welding	28/08/2023			
* Assinilate deviation in the drawings ("* n" or "n").				
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)				

NEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP)
PROJECT - ALBA PROJECT

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