

 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	 Patricia Texeira	 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		
COMPANY				
(Free)				

# ISO Summary List

# 22635 / 1233

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-HXE10C36-2**

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	06	S24	BW	2" PIPE - A106-B BE SMLS	16	23101884	23310545	5:Varela	MW.20_BW	23/08/2023	VT-I-009						
02	05	S17	BW	2x2" WN FLANGE ASME B16.5 300# A105N RF	39	88AV0	225263	PVX1312824	S71	23/08/2023	VT-I-009						
03	05	S18	BW	2" PIPE - A106-B BE SMLS	16	23101884	23310545	PVX1312824	S71	23/08/2023	VT-I-009						
04	06	S19	BW	2x2" WN FLANGE ASME B16.5 300# A105N RF	39	88AV0	225263	PVX1312824	S71	23/08/2023	VT-I-009						
				2" PIPE - A106-B BE SMLS	16	23101884	23310545	PVX1312824	S71	23/08/2023	VT-I-009	RT: RT-I-083					

**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: TECNIMONT

Date: L. Gomes

Sign: NWI
06/12/2023
**APPROVED by 3rd party or AI**

Name: João Moreira

Date: 06/12/2023


Sign: SGS
NoBo 1155 ☐ reviewed by ☐ witnessed by







FLUID CODE: HXE				LINE DATA			
PIPING MATERIAL CLASS				INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE
1E21				N / 0	E	N	1
P&ID No.				19-A-19-000-1-01-00001 sheet 8			
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D		
00	10-08-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM		

 <b>Tecnimont</b>		PIPING ISOMETRIC		IDENTIFICATION CODE			
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		Job	E I C T	Area	N
				4274	XHDL	2121	HXE10C36
				UNIT	19	SHEET	2 REV 00
REFERENCES	PIPING ASSEMBLY DRAWING	E C T N	PIPING SUPPORT SPECIFICATION	X H-SL-00000002	PIPING STANDARD SUPPORT SUMMARY	E C T N	
		19-L-19-000-3-00-85197 sheet 3					
	PIPING ISOMETRIC LIST	E C T N	PIPING TYPICAL INSTALLATIONS	X H-LD-21210001	WELDING SPECIFICATION	E C T N	
		XH-LD-21210001		XH-SL-00000002		XH-SW-00000001	

BILL OF MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.

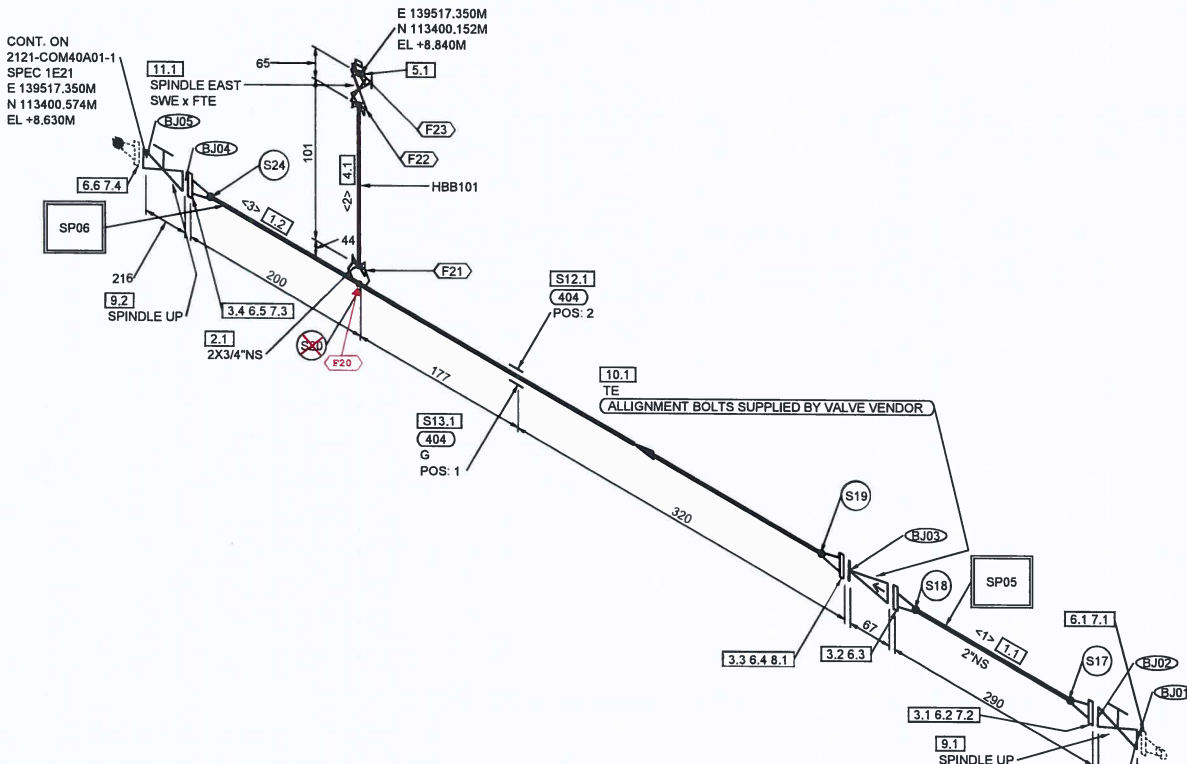
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806)	2	1117862	0.7 M
2	REDUCING SOCKLETT MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01411> (L-343)	2X3/4	17843411	1
3	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CF44B05 S-STD <WNFA300R352STD> (L-236)	2	15355797	4

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.
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4	PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A134XS> (L-6679)	3/4	1132785	0.2 M
5	PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FC44W001 NREQD <PLUA300CK34> (L-77)	3/4	110088232	1
6	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP11S12 <N/A> (N/A)	2	163508961	6
7	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	153437440	32
8	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R051G5/861/4> - 2 NUTS PER BOLT - 160 mm Length	5/8	165674533	8
9	GATE VALVE API 600 300# A216-WCB RFFE 8-F6&HF API 600 B7/2H 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FFC29B167 NREQD <G42L-130> (L-130)	2	150606081	2
10	DISC CHECK WFR VALVE ASME B16.34 300# A216-WCB RFTBE 316R-PTFE, GF 125 - 250 AARH SL VERTICAL&HORIZONTAL CRACK. PRESS. 1/2 PSI ASME B16.5 V40JFC29P01 NREQD <N/A> (N/A)	2	110071409	1
11	GATE VALVE API 602 800# A105N SWE FTE 8-F6&HF WB-OS&Y SOW API 602 HW V01GIC4412BL NREQD <N/A> (N/A)	3/4	110015410	1
12	STAKES SUPPORTS ST05 HEA100	2	404	1
13	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	2	404	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)
<1>	146	2"	S17	S	2"	BW	BJ01	2"
<2>	101	3/4"	S18	S	2"	BW	BJ02	2"
<3>	553	2"	S19	S	2"	BW	BJ03	2"
			S20	S	3/4"	OL	BJ04	2"
			F21	F	3/4"	SW	BJ05	2"
			F22	F	3/4"	SW		
			F23	F	3/4"	THD		
			S24	S	2"	BW		



INCH METER		CL LENGTH (M)	
PIPE NS (IN)		2	2.2
		0.75	0.2



TECNIMONT  
JOAQUIN PINTO  
PIPING SUP  
Joaquim Pinto

CONT. ON  
2121-HXE10C36-1  
SPEC 1E21  
E 139517.350M  
N 113399.070M  
EL +8.630M



 <b>MECOWIDE</b> ENGINEERING TECHNOLOGIES	Prep.: TG	AS BUILT	Rev: 22635
	Status: IFC	Date: 10-08-2023	Rev: 00
Dimensional:	Signature:		
Before Welding:			
After Welding:			
* Assinulate deviation in the drawings (* n" or * 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

JOINT TYPE	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT
0W	G	0W	B	LET	LET	BOB	B
FW	B	0W	B	UP	RF	BOF	B
LA	RF	0W	B	MTW	M	THD	TH

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