

 Tecnimont S.p.A.	 REPSOL POLIMEROS SA	4274_CONST 4274-ALBA PROJECT-PP AND PEL PLANTS	
MOD-ITP-XL_220 RELEASE OF SPOOLS FROM WORKSHOP Rev.1		Report n° IP-WSR-P-310-000015_MOD-ITP-XL_220 RFI Nr.: 394 Date :	
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000015 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

7111-ET40A07-4-SP08;7111-ET40A07-4-SP07;7111-FL52A13-2-SP04;7111-FL52A13-2-SP03;7111-FL52A13-1-SP02;7111-FL52A13-1-SP01;7111-FL52A10-2-SP02;7111-FL52A10-2-SP01;1121-PR22016-3-SP06;1121-PR22016-3-SP05;1121-PR24034-8-SP16;1121-PR24034-8-SP15;1121-PR24034-2-SP05;1121-PR24034-2-SP04;1121-PR24034-2-SP03;1121-PR24033-3-SP07;1121-PR24033-3-SP06;1121-PR24033-3-SP05;1121-PR40026-12-SP08;1121-PR40026-12-SP07;1121-PR34024-2-SP02;1121-PR34022-3-SP07;1121-PR34022-3-SP06;1121-PR34022-3-SP05;2121-FL40C01-2-SP02;2121-ET40A01-1-SP02;2121-ET40A01-1-SP01;1121-PR43044-5-SP02;1121-PR43044-5-SP01;1121-PR43044-4-SP03;1121-PR43044-3-SP05;1121-PR43044-3-SP04;1121-PR43044-2-SP07;1121-PR43044-2-SP06;1121-PR43044-2-SP05;1121-PR43044-1-SP09;1121-PR43044-1-SP08;1121-HCM24069-5-SP11;1121-HCM24069-5-SP10;1121-HCM24069-5-SP09;1121-HCM24069-4-SP08;1121-HCM24073-1-SP08;1121-HCM24073-1-SP07;1121-PR34001-1-SP03;1121-PR34001-1-SP02;1121-HCM24072-3-SP11;1121-HCM24072-3-SP10;1121-HCM24072-1-SP01;1121-HCM31012-6-SP21;1121-HCM24076-2-SP04;1121-HCM24076-1-SP03;1121-HCM24076-1-SP02;1121-HCM24076-1-SP01;1121-HCM24074-2-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"


 Joao Gomes
 NoBo 1155


 JOAQUIM PINTO
 PIPING SUP TEM
 Joaquim Pinto 27/11/2023


 L. Gomes
 NWI

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	27/11/2023	Patricia Teixeira	Patricia Teixeira	
CONTRACTOR	27/11/2023	Luis Gomes	Luis Gomes	
COMPANY				
(Free)				

ISO Summary List

22635 / 1631
Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-ET40A01-1** ✓

Revision **01**

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
01	02	S12 ✓	BW 3" PIPE - A106-B BE SMLS ✓ 3" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	17 228	23211709 ✓ 215148 ✓	23310546 ✓ CE23002054_3.1_01 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	17/10/2023 ✓ S08 ✓	VT-I-050 ✓		RT: RT-I-0202 ✓					
02	02	S11 ✓	BW 3" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 3" PIPE - A106-B BE SMLS ✓	228 17	215148 ✓ 23211709 ✓	CE23002054_3.1_01 ✓ 23310546 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	16/10/2023 ✓ S08 ✓	VT-I-049 ✓							
03	02	S10 ✓	BW 3" PIPE - A106-B BE SMLS ✓ 3" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	17 228	23211709 ✓ 215148 ✓	23310546 ✓ CE23002054_3.1_01 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	17/10/2023 ✓ S08 ✓	VT-I-050 ✓							
06	02	S03 ✓	BW 3x3" WN FLANGE ASME B16.5 300# A105N RF ✓ 3" PIPE - A106-B BE SMLS ✓	38 17	70HC22 ✓ 23211709 ✓	225129 ✓ 23310546 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	16/10/2023 ✓ S08 ✓	VT-I-049 ✓							
06	01	S02 ✓	BW 3" PIPE - A106-B BE SMLS ✓ 3x3" WN FLANGE ASME B16.5 300# A105N RF ✓	17 38	23211709 ✓ 70HC22 ✓	23310546 ✓ 225129 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	17/10/2023 ✓ S08 ✓	VT-I-050 ✓							
10	01	S01 ✓	BW 3x3" WN FLANGE ASME B16.5 300# A105N RF ✓ 3" PIPE - A106-B BE SMLS ✓	38 17	70HC22 ✓ 23211709 ✓	225129 ✓ 23310546 ✓	5-Varela ✓ PVX1312824 ✓	MW.20_BW ✓	17/10/2023 ✓ S08 ✓	VT-I-050 ✓							

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: **27/11/2023**
Sign: **Patricia Texeira**

APPROVED by Client

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

APPROVED by 3rd party or AI

Name: **SGS**
Date: **28/11/2023**
Sign: **SGS**
NoBo 1155



					LINE DATA					
					FLUID CODE: ET			LINE NO. 3"-ET-40A01-1E21		
					PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.
01	01-09-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM	1E21	N / O	E	N	1
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D	1E21	N / O	E	N	1
										19-A-19-000-1-01-00001 sheet 28

IDENTIFICATION CODE		Job		Area		N	
4274		XHDL		2121		ET40A01	
UNIT		19		SHEET		1	
REV		0					
PIPING ASSEMBLY DRAWING		19-L-19-000-2-00-86196 sheet 3		PIPING SUPPORT SPECIFICATION		XH-SG-00000002	
PIPING ISOMETRIC LIST		XH-LD-21210001		PIPING TYPICAL INSTALLATIONS		XH-SL-00000002	
PIPING STANDARD SUPPORT SUMMARY		XH-LP-00000000		WELDING SPECIFICATION		XH-SW-00000000	

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	5.0 M	
2	FITTINGS REDUCING SOCKLETT MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01513> (L-343)	3X1.1/2	I1651321	1	
3	REDUCING SOCKLETT MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01511> (L-343)	3X3/4	I1651368	1	
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F33STD> (L-7955)	3	I128599	2	
5	FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R353STD> (L-236)	3	I4217853	3	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
6	PIPE PIPE - A106-B PE SMLS T01AC03V02 S-XS <PIPA010A134XS> (L-6679)	3/4	I132785	0.1 M	
7	FITTINGS SPECTACLE DISC ASME B16.48 300# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0601FC65004 NREQD <F18A510F3A15> (L-F1827)	3	I4299243	1	
8	PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD <PLUA300CK34> (L-77)	3/4	I10088232	1	
9	GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03FP11S12 <N/A> (N/A)	3	I63508968	4	
10	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G3/45> - 2 NUTS PER BOLT - 125 mm Length	3/4	I53437468	8	
11	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G3/473/4> - 2 NUTS PER BOLT - 195 mm Length	3/4	I53437482	8	
12	VALVES / IN-LINE ITEMS BALL V-FLT-SS-FB API 608 300# A216-WCB RFFE 316/PEEK B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL LE TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29B01E NREQD <B43L-AL104> (L-AL104)	3	I63782499	1	
13	DISC CHECK WFR VALVE ASME B16.34 300# A216-WCB RFTBE 316/PEEK 125 - 250 AARH SL VERTICAL&HORIZONTAL CRACKING PRESSURE AT 4.25 PSI ASME B16.5 V40JFC29P12 NREQD <N/A> (N/A)	3	I65527869	1	
14	GATE VALVE API 602 800# A105N SWE FTE 8-F&HF WB-OS&Y SOW API 602 HW V01GIC4412BL NREQD <N/A> (N/A)	3/4	I10015410	1	
15	SUPPORTS STANDARD GUIDE FOR NOT INS. PIPING-N1G1	3	221	1	
16	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	3	221	1	

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>	96	3"	S01	S	3"	BW	BJ01	3"	3/4"	125
<2>	100	3/4"	S02	S	3"	BW	BJ02	3"	3/4"	195
<3>	1936	3"	S03	S	3"	BW				
<4>	2943	3"	S04	S	3/4"	OL				
			F05	F	3/4"	SW				
			F06	F	3/4"	SW				
			F07	F	3/4"	THD				
			S08	S	1.1/2"	OL				
			F09	F	1.1/2"	SW				
			S10	S	3"	BW				
			S11	S	3"	BW				
			S12	S	3"	BW				

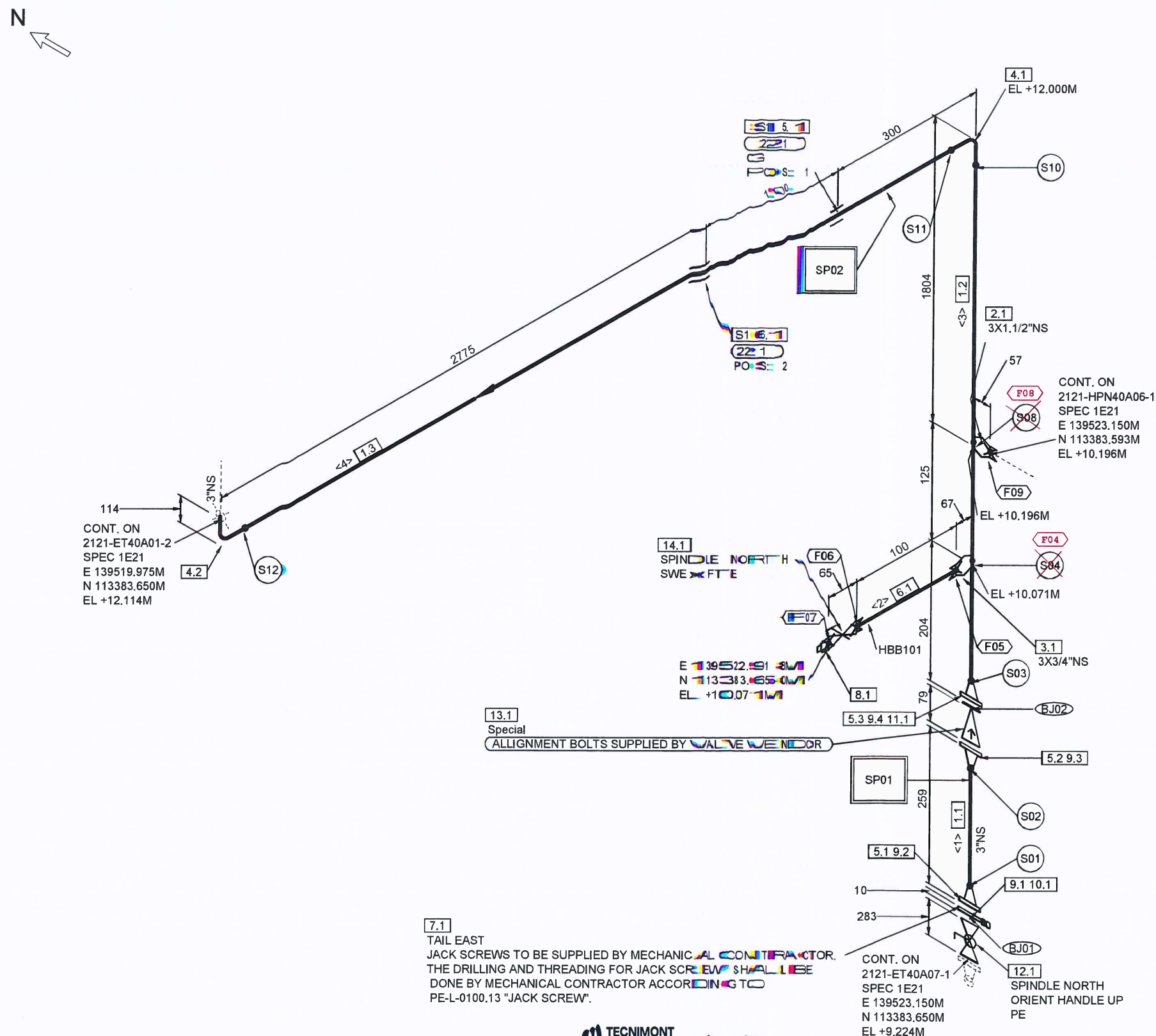
INCH METER

PIPE NS (IN)	CL LENGTH (M)
3	10.0
0.75	0.2

ISOMETRIC NO. 4274-SP-XH-DL-2121-ET40A01-1-IS01

SPOOLING REV NO. 01

SHEET NO. 1 OF 1



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	JOINT TYPE	HMEL TYPE OF JOINT
BW	G	SW	S	LET	LET	S0B	B		
FW	S	SIB	B	LF	LF	SOF	S		
LA	RF	SLW	S	MTW	MTW	THD	TH		

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

STRUCTURE

WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL

PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP)

FOR PROJECT - ALBA PROJECT