

 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		
Unit -				
Plant Area -				
Isometric Number				
Inspection Package Number IP-WSR-P-310-000017 - IP Spool Release From Workshop				

Sheet 01/01

The Present Inspection Package contains the following Elements:

1211-CWS89032-1-SP04;1211-CWS89032-1-SP03;1211-FW68J01-4-SP08;1211-FW68J01-4-SP07;1211-VA40B02-2-SP04;1211-VA40B02-2-SP03;1211-VA40B02-1-SP02;1211-VA40B02-1-SP01;1211-MS91A01-1-SP13;1211-MS91A01-1-SP12;1211-MS91A01-1-SP11;1211-VG40N11-2-SP10;1211-VG40N11-2-SP09;1211-VG40N11-1-SP02;1211-VG40N11-1-SP01;1211-VA49A08-1-SP01;1211-VA49A05-3-SP05;1211-VA40Z10-1-SP01;1211-VA40Y02-3-SP07;1211-VA40Y02-3-SP06;1211-VA40Y02-2-SP05;1211-VA40Y02-2-SP04;1211-VA40Y02-2-SP03;1211-VA40U05-1-SP01;1211-VA40P04-1-SP01;1211-CWS64009-1-SP01;1211-PA89021-6-SP14;1211-PA89021-6-SP13;1211-N89001-6-SP12;1211-N00D01-1-SP01;1211-BDL43019-6-SP06;1211-BDL43019-6-SP05;1211-BDL43019-3-SP01;1211-BDL31031-3-SP05;1211-JWR64002-1-SP02;1211-JWR64002-1-SP01;1211-JWR40005-1-SP02;1211-JWR40005-1-SP01;1211-PN52015-2-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"

TECNIMONT  
 JOAQUIM PINTO  
 PIPING SUP  
 Joaquim Pinto

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	09-11-2023	Patricia Teixeira	Patricia Teixeira		
CONTRACTOR	01-11-2023	Luiz G. G. G.	Luiz G. G. G.		
COMPANY					
(Free)					

TECNIMONT  
 Gomes  
 R W

# ISO Summary List

# 22635 / 1981  
Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-VG40N11-2**

Revision **00**

Priority **6**

Piping Size/Class **3-1C17**

PED Category **I**

**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	09	S39	OL	3" PIPE - A106-B BE SMLS	17	23211709	23310546	5:Varela	MW.20_SBR	29/09/2023	VT-I-037						
			3x.75" REDUCING SOCKOLET MSS SP-97 3000	425	244301	CE/2022/1596	PVX1312824		S71		MT: MT-I-015-A						
02	10	S45	BW	3" 90 LR ELBOW ASME B16.9 A234-WPB BE S	228	215148	CE23002054_3.1_01	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3" PIPE - A106-B BE SMLS	17	23211709	23310546	PVX1312824		S71								
03	10	S44	BW	3" PIPE - A106-B BE SMLS	17	23211709	23310546	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3" 90 LR ELBOW ASME B16.9 A234-WPB BE S	228	215148	CE23002054_3.1_01	PVX1312824		S71								
04	10	S43	BW	3x3" WN FLANGE ASME B16.5 150# A105N RF	37	70HC22	224997	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3" PIPE - A106-B BE SMLS	17	23211709	23310546	PVX1312824		S71								
05	09	S42	BW	3" 90 LR ELBOW ASME B16.9 A234-WPB BE S	228	215148	CE23002054_3.1_01	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3x3" WN FLANGE ASME B16.5 150# A105N RF	37	70HC22	224997	PVX1312824		S71								
06	09	S41	BW	3" PIPE - A106-B BE SMLS	17	23211709	23310546	5:Varela	MW.20_BW	02/10/2023	VT-I-038	RT: RT-I-0179					
			3" 90 LR ELBOW ASME B16.9 A234-WPB BE S	228	215148	CE23002054_3.1_01	PVX1312824		S71								
08	09	S38	BW	3x2" ECCENTRIC REDUCER ASME B16.9 A234-	112	125881	CE23005082_3.1_01	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3" PIPE - A106-B BE SMLS	17	23211709	23310546	PVX1312824		S71								
09	09	S37	BW	2x2" WN FLANGE ASME B16.5 150# A105N RF	36	70HC22	224878	5:Varela	MW.20_BW	02/10/2023	VT-I-038						
			3x2" ECCENTRIC REDUCER ASME B16.9 A234-	112	125881	CE23005082_3.1_01	PVX1312824		S71								

## 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: *E. Almeida*  
Date: *09/11/23*  
Sign: *[Signature]*

## APPROVED by Client

Name: **TECNIMONT**  
Date: *L. Gomes*  
Sign: *[Signature]*

## APPROVED by 3rd party or AI

Name:  
Date:  
Sign:







LINE DATA				FLUID CODE: VG				LINE NO. 3"-VG-40N11-1C17			
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D	1C17	N / 0	E	N	1	19-A-19-000-1-01-00001 sheet 44
00	11-09-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM						

IDENTIFICATION CODE				Job				Area			
4274	XHDL	2121	VG40N11	UNIT	19	SHEET	2	REV	00		
PLANT: SINES INDUSTRIAL COMPLEX				CLIENT REF: REPSOL POLYMEROS				PPH: STANDARD SUPPORT SUMMARY			
PPH: ADHESIVE DRAWING				PPH: SUPPORT SPECIFICATION				PPH: WELDING SPECIFICATION			
PPH: ISOMETRIC LIST				PPH: TYPICAL INSTALLATIONS				PPH: WELDING SPECIFICATION			

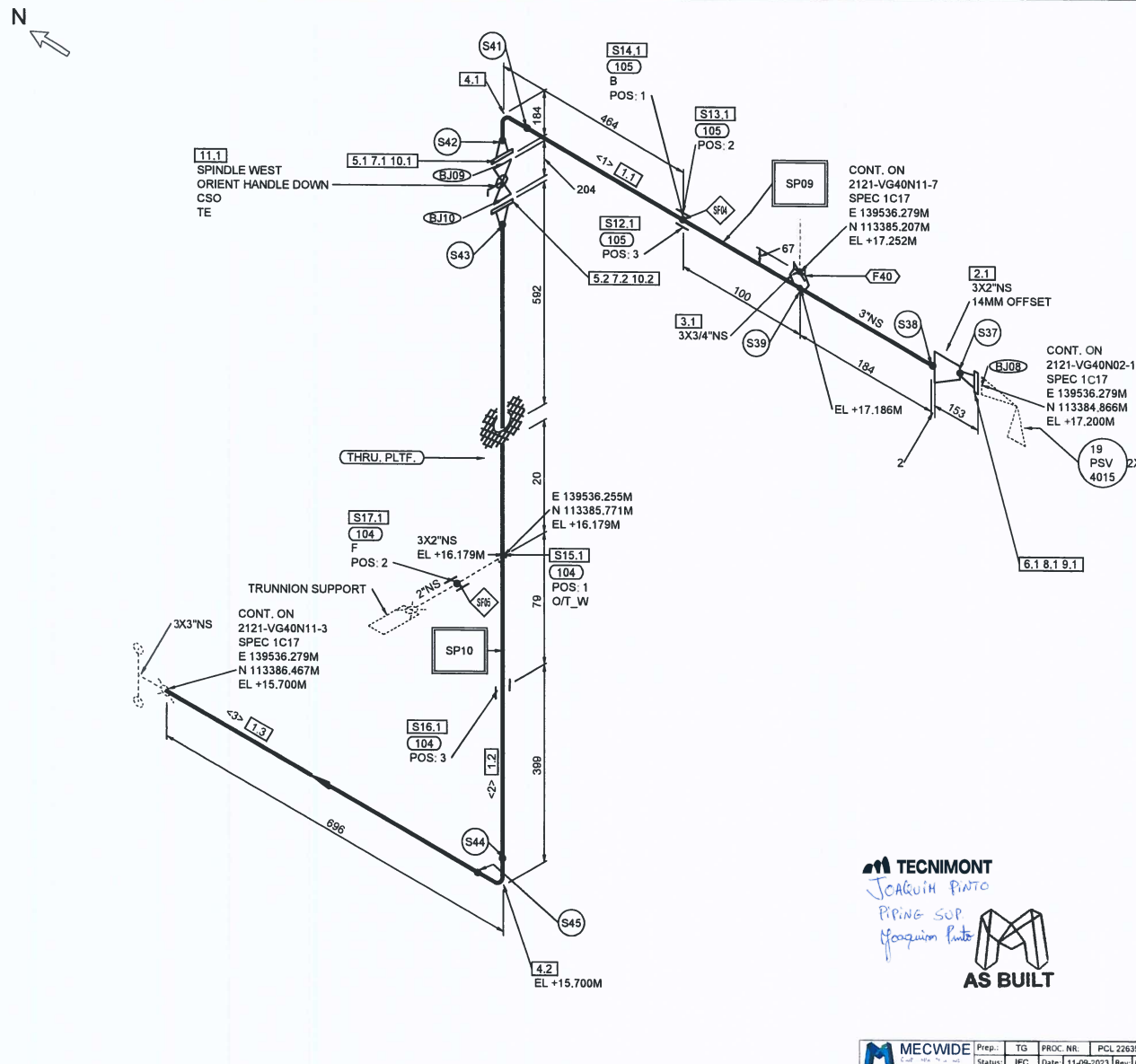
BILL OF MATERIALS				FABRICATION MATERIALS			
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD		

1	PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B13STD> (L-7806).	3	H117921	2.2 M			
2	FITTINGS ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <EERA200F315151415> (L-7959).	3X2	H120802	1			
3	REDUCING SOCKLETT MSS-SP-97 3000# A105N BE SWE - R13DNC44V01 NREQD <SKA300LB01511> (L-343).	3X3/4	H1651368	1			
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F33STD> (L-7955).	3	H128599	2			
5	FLANGES WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44B05 S-STD <WNFA300R153STD> (L-149).	3	H4217820	2			
6	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44B05 S-STD <WNFA300R152STD> (L-149).	2	H535795	1			

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD		
7	GASKETS SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 304/GRF01L CARBON STEEL SS 304 ASME B16.5 G03GDP11S12 <N/A> (N/A).	3	H63508913	2			
8	SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 304/GRF01L CARBON STEEL SS 304 ASME B16.5 G03GDP11S12 <N/A> (N/A).	2	H63508906	1			
9	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 85 mm Length	5/8	H53437429	4			
10	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	H53437440	8			
11	VALVES / IN-LINE ITEMS BALL VALVE API 608 150# A216-WCB RFFE 316/R-PTFE GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL LE ASME B16.5 V04JDC29BTR NREQD <B43L-B41434> (L-B41434).	3	H6883141	1			
12	SUPPORTS PIPING SUPPORT - BEAMS- BE03 HEA140	3	105	1			
13	STAKES SUPPORTS ST05 HEA120	3	105	1			
14	GUIDE AND STOP HORIZ VERT SUPPORT-N1B1	3	105	1			
15	WELDED EXTENSIONS-EW05 DN2 = 2 L = 350	3	104	1			
16	WELDED BRACKET TO STRUCT. SB01 L100X100X10	3	104	1			
17	STOP HORIZ VERT FOR NOT INS. PIPING-N1F1	2	104	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)
<1>	632	3"	S37	S	2"	BW	BJ08	2"	5/8"
<2>	903	3"	S38	S	3"	BW	BJ09	3"	5/8"
<3>	580	3"	S39	S	3/4"	OL	BJ10	3"	5/8"
			F40	F	3/4"	SW			
			SF04	F	3"	FT			
			S41	S	3"	FT			
			S42	S	3"	BW			
			S43	S	3"	BW			
			SF05	F	2"	FT			
			S44	S	3"	BW			
			S45	S	3"	BW			

INCH METER				ISOMETRIC NO. 4274-SP-XH-DL-2121-VG40N11-2-4500				SPOOLING REV NO. 00			
PIPE NS (IN)		CL LENGTH (M)									
3		4.5									
2		0.2									



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

JOINT TYPE	WELD TYPE	JOINT TYPE	WELD TYPE	JOINT TYPE	WELD TYPE	JOINT TYPE	WELD TYPE	JOINT TYPE	WELD TYPE	JOINT TYPE	WELD TYPE
BW	B	BW	B	LP	B	LP	B	LP	B	LP	B
FW	B	FW	B	LP	B	LP	B	LP	B	LP	B
LA	R	LA	R	MTW	M	MTW	M	THD	TH	THD	TH

M	MECWISE	Prep.	TG	PROC. NR.	PCL 22635
		Status	IFC	Date	11-09-2023
		Signature			
		After Welding			
		* Assinilate deviation in the drawing (* n" or " n")			
		Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)			

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

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