

 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-310-000120_RFI2220_MOD-ITP-XL_220	
		RFI Nr.:	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000120_RFI2220 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:




2121-VRG52A10-2-SP04;2121-VRG52A10-2-SP03;2121-VRG52A10-2-SP02;1121-PR43048-2-SP03;2121-VRG52A10-1-SP01;2121-FL40B04-1-SP01;2121-FL40K01-2-SP02;1121-PR40026-2-SP03;1121-PR40026-2-SP02;1121-PR40026-2-SP01;1121-HCM24078-6-SP11;1121-HCM24078-5-SP10-ZZ;1121-HCM24078-5-SP09;2121-FL40C01-1-SP01;1121-PR43027-4-SP10;1121-PR43027-4-SP09;1121-PR43027-4-SP08;1121-PR43027-4-SP07;1121-PR43027-4-SP06;1121-HCM24082-2-SP04;1121-HCM24082-2-SP05;1121-HCM24082-2-SP03;1121-PR43037-3-SP08;1121-PR43037-3-SP07;1121-PR43037-3-SP06;1121-PR43037-3-SP05;1121-PR43037-2-SP01;1121-PR33019-4-SP06;1121-PR33019-4-SP05;1121-PR24034-5-SP12;1121-PR24034-5-SP11;1121-PR24034-5-SP10;1121-PR23031-2-SP05;1121-PR23031-1-SP07;1121-PR23031-1-SP06-ZZ;1121-CHWS24002-2-SP02;2121-VRG41B09-5-SP09;2121-VRG41B09-5-SP08;2121-VRG41B09-5-SP07;2121-VRG41B09-5-SP06;2121-ET40J06-2-SP05;2121-ET40J06-2-SP04;2121-ET40J06-2-SP03;1121-ET71039-5-SP04;1121-ET71039-5-SP03;1121-ET71039-5-SP02;1121-ET71039-5-SP01;1121-ET71039-4-SP05;1121-VA23003-2-SP06;1121-VA23003-2-SP05;1121-VA23003-2-SP04-ZZ;1121-VA23003-1-SP03;1121-VA23003-1-SP02;1121-VA23003-1-SP01;1121-PR24038-1-SP03;1121-PR24038-1-SP02;1121-PR24038-1-SP01;1121-PR36015-1-SP02;1121-PR36015-1-SP01;1121-HCM31022-2-SP04;1121-HCM31022-2-SP03;1121-HCM31022-2-SP02;1121-HCM24081-2-SP02;1121-HCM24081-2-SP01;1121-HCM24052-1-SP04;1121-HCM24052-1-SP03;1121-HCM24052-1-SP02;1121-HCM24052-1-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"

 L. Gomes NWI	 Pinto Joaquim Mechanical Piping Spv. Joaquim Pinto	 NoBo 1155 Joao Nunes
02/05/2024	02/05/2024	02/05/2024

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
SUBCONTRACTOR	Date [DD-MMM-YYYY] 02/05/2024	Name Patricia Teixeira	Signature Patricia Teixeira		
CONTRACTOR					
COMPANY					
(Free)					



ISO Summary List

22635 / 1508

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-VRG41B09-5**

Revision **00**

Priority **2**

Piping Size/Class **4-1E21**

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
05	06	S30	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1.01	5:Vareta	MW.20_BW	11/09/2023	VT-I-023							
			4" PIPE - A106-B BE SMLS	19	23101887	23310548	PVX1312824		S260								
06	06	S31	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	11/09/2023	VT-I-023							
			4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1.01	PVX1312824		S260								
07	07	S33	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	11/09/2023	VT-I-023		RT: RT-I-0127					
			4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	395	21698	CE23002009_3.1.01	PVX1312824		S260								
08	07	S34	BW 4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	395	21698	CE23002009_3.1.01	5:Vareta	MW.20_BW	11/09/2023	VT-I-023							
			4" PIPE - A106-B BE SMLS	19	23101887	23310548	PVX1312824		S260								
09	07	S35	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	11/09/2023	VT-I-023							
			4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	395	21698	CE23002009_3.1.01	PVX1312824		S260								
10	08	S37	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	12/09/2023	VT-I-024							
			4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1.01	PVX1312824		S260								
11	09	S39	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	12/09/2023	VT-I-024							
			4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1.01	PVX1312824		S260								
12	09	S40	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1.01	5:Vareta	MW.20_BW	12/09/2023	VT-I-024							
			4" PIPE - A106-B BE SMLS	19	23101887	23310548	PVX1312824		S260								
13	09	S41	BW 4" PIPE - A106-B BE SMLS	19	23101887	23310548	5:Vareta	MW.20_BW	12/09/2023	VT-I-024							
			4x4" WN FLANGE ASME B16.5 300# A105N RF	37	07EE23	224997	PVX1312824		S260								

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: *02/05/2024*
Sign: *Patricia Texeira*

APPROVED by Client

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


APPROVED by 3rd party or AI

Name: *João Gomes*
Date: *02/05/2024*
Sign: *João Gomes*

SGS
NoBo 1155 ☐ reviewed by ☐ with: 3.0ed. 01



LINE DATA									
FLUID CODE: VRG					LINE NO. 4"-VRG-41B09-1E21 (CG)				
PIPING MATERIAL CLASS		INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.			
1E21		CG / 50	E	N	20	19-A-19-000-1-01-00001 sheet 53			
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D				
00	25-08-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM				

 Tecnimont		PIPING ISOMETRIC		IDENTIFICATION CODE					
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF. REPSOL POLYMERS		Job	EICI	T	Area	N	
				4274	XHDL	2121	VRG41B09		
				UNIT	19	SHEET	5	REV	00
53	REFERENCES	PIPING ASSEMBLY DRAWING		E C I T N	PIPING STANDARD SUPPORT SUMMARY				E C I T N
	19-L-19-000-2-00-88197 sheet 11		PIPING SUPPORT SPECIFICATION		XH-SL-00000002				XH-LP-00000001
	PIPING ISOMETRIC LIST		PIPING TYPICAL INSTALLATIONS		XH-SL-00000002				XH-SW-00000001
	XH-LD-21210001								

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	I117953	14.2 M	
2	FITTINGS 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7965)	4	I128635	4	
3	45 LR ELBOW ASME B16.9 A234-WPB BE SMLS C02DC04V01 S-STD <45LA200F34STD> (L-7966)	4	I201302	2	
4	FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC4BV05 S-STD <WNFA300R354STD> (L-236)	4	I4272446	1	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
5	GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/304 GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1S12 <N/A> (N/A)	4	I63508975	1	
6	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <S82R51G3/441/2> - 2 NUTS PER BOLT - 115 mm Length	3/4	I53437466	8	
7	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <S82R51G3/445> - 2 NUTS PER BOLT - 125 mm Length	3/4	I53437468	8	
8	VALVES / IN-LINE ITEMS 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 <G44L-130> (L-130)	4	I5605092	1	
9	SUPPORTS VERT.TRESTLES WELDED TO STR TR34 HEA100	4	92	1	
10	RESTING SHOE CLAMPED, COLD INS. -F2A1 H=150 L=300	4	92	1	
11	CLAMPED GUIDE, COLD INS. -F2G1 H=150 L=300	4	96	1	
12	CLAMPED GUIDE, COLD INS. -F2G1 H=150 L=300	4	95	1	
13	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	4	94	1	
14	RESTING SHOE CLAMPED, COLD INS. -F2A1 H=150 L=300	4	93	1	
15	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	4	93	1	
16	CLAMPED GUIDE, COLD INS. -F2G1 H=150 L=300	4	93	1	

CUT LIST

PIECE NO	LENGTH (MM)	SIZE (IN)
<1>	2328 ✓	4"
<2>	4995 ✓	4"
<3>	1681 ✓	4"
<4>	4208 ✓	4"
<5>	584 ✓	4"
<6>	361 ✓	4"

WELD LIST

WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE
F29	F	4"	BW
S30	S	4"	BW
S31	S	4"	BW
F32	F	4"	BW
S33	S	4"	BW
S34	S	4"	BW
S35	S	4"	BW
F36	F	4"	BW
S37	S	4"	BW
F38	F	4"	BW
S39	S	4"	BW
S40	S	4"	BW
S41	S	4"	BW

BOLT LIST

BOLT NO	FLANGE SIZE (IN)	SIZE (IN)	LENGTH (MM)
BJ04	4"	3/4"	115
BJ05	4"	3/4"	125

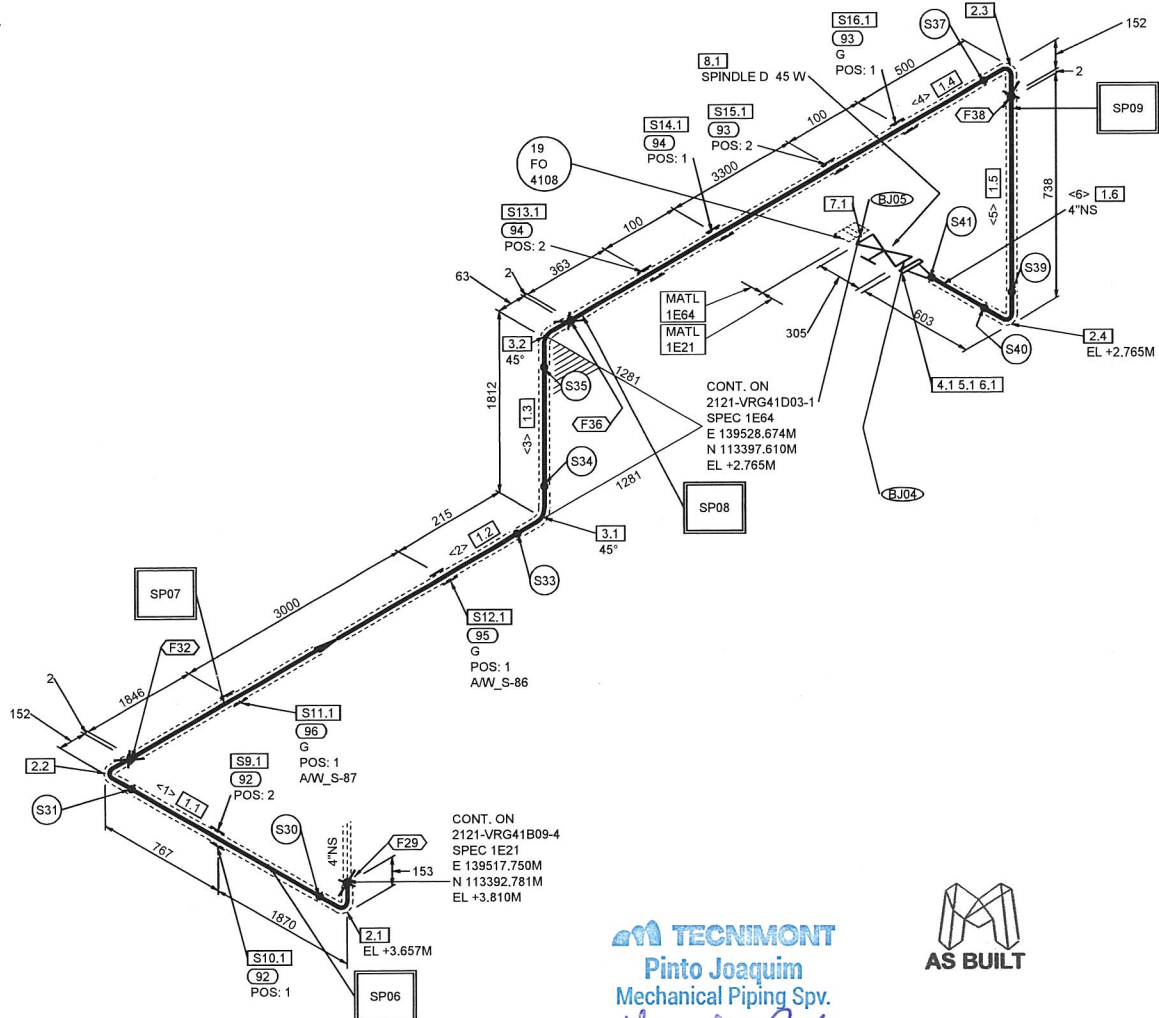
INCH METER

PIPE NS (IN)	CL LENGTH (M)
4	16.0

ISOMETRIC NO. 4274-SP-XH-DL-2121-VRG41B09-5-I500

SPOOLING REV NO. 00

SHEET NO. 1 OF 1



TECNIMONT
Pinto Joaquim
Mechanical Piping Spv.
Joaquim Pinto
02/05/2024



MECOWIDE		Prep.: TG	PROC. NR: PCL 22635
Dimensional:		Status: IFC	Date: 25-08-2023
Before Welding		Signature:	Rev: 00
After Welding		Signature:	
* Assinalate 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	JOINT TYPE	WELD TYPE OF JOINT	JOINT TYPE	WELD TYPE OF JOINT	JOINT TYPE	WELD TYPE OF JOINT
BW	G	BW	S	LET	LET	BOB	S
PW	S	BS	S	LF	RF	BOF	S
LA	RF	BLW	S	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