

 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-310-000012_MOD-ITP-XL_220 RFI Nr.: 325 Date :	
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000012 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

2211-VRG50A08-3-SP04;2211-VRG50A08-3-SP02;2211-VRG50A08-3-SP03;2211-VRG50A08-3-SP01;1121-HCM31015-7-SP01;1121-HCM24069-3-SP15;1121-HCM23060-1-SP02;1121-HCM23060-1-SP01;2211-VRG50A01-2-SP02;2211-VRG50A01-2-SP01;2121-VRG41B09-3-SP13;2121-VRG41B09-3-SP12;2121-VRG41B09-2-SP11;2121-VRG41B09-2-SP10;2121-ET40J06-1-SP02;2121-ET40J06-1-SP01;2121-ET40F05-4-SP07;2121-ET40F05-3-SP06;2121-ET40F05-3-SP05;2121-ET40F05-2-SP04;2121-ET40F05-1-SP03;2121-ET40F05-1-SP02;2121-ET40F05-1-SP01;2121-CWR40B02-8-SP10;2121-COM40A01-4-SP07;2121-COM40A01-2-SP02;1121-PR50010-2-SP06;1121-PR50010-2-SP05;1121-PR50010-2-SP04;2121-HXE10C36-1-SP04;2121-HXE10C36-1-SP03;2121-HXE10C36-1-SP02;2121-HXE10C36-1-SP01;2121-ET40S05-1-SP02;2121-ET40S05-1-SP01;1121-PR35013-2-SP06;1121-PR35013-2-SP05;1121-PR35013-2-SP04;1121-PR35013-2-SP03;1121-PR35013-2-SP02;1121-PR35013-2-SP01;1121-PR35019-1-SP03;1121-PR35019-1-SP02;1121-PR35019-1-SP01;1121-LS24013-1-SP01;1121-HCM24068-1-SP02;1121-HCM24068-1-SP01;1121-HCM24067-2-SP02;1121-HCM24067-2-SP01;1121-HCM24067-1-SP05;1121-HCM24067-1-SP04;1121-HCM24067-1-SP03;1121-ET40007-1-SP01;1121-CHWR21008-1-SP03;1121-BDL34018-2-SP04;1121-BDL34018-2-SP03;7111-ET20C01-6-SP12;7111-ET20C01-6-SP11;1111-PR24033-2-SP02;1111-PR24033-2-SP01

JOAQUIM PINTO
PIPING SUP. TEM
Joaquim Pinto 30/10/2023

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"

SGS
Reviewed by
witnessed by
30/10/2023

TECNIMONT
L. Gomes
NW1
30/10/2023

Signature

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]	Name	Signature		
CONTRACTOR	30/10/2023	Enriquez			
COMPANY					
(Free)					

ISO Summary List

22635 / 1505

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-VRG41B09-2**

Revision **00**

Priority **6**

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
01	10	S43	BW	4" PIPE - A106-B BE SMLS	19	23211707	23310548	5:Varela	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		S71								
02	11	S52	BW	4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	395	21698	CE23002009_3.1_01	5:Varela	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		S71								
03	11	S51	BW	4" PIPE - A106-B BE SMLS	19	23211707	23310548	5:Varela	MW.20_BW	12/09/2023	VT-I-024						
			4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	395	21698	CE23002009_3.1_01	PVX1312824		S71								
05	11	S47	OL	4" PIPE - A106-B BE SMLS	19	23211707	23310548	5:Varela	MW.20_SBR	12/09/2023	VT-I-024						
			4x.75" REDUCING SOCKOLET MSS SP-97 3000	425	244301	CE/2022/1596	PVX1312824		S71								
06	11	S46	BW	4x4" WN FLANGE ASME B16.5 300# A105N RF	37	07EE23	224997	5:Varela	MW.20_BW	12/09/2023	VT-I-024						
			4" PIPE - A106-B BE SMLS	19	23211707	23310548	PVX1312824		S71								
07	10	S44	BW	4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1_01	5:Varela	MW.20_BW	12/09/2023	VT-I-024						
			4" PIPE - A106-B BE SMLS	19	23211707	23310548	PVX1312824		S71			RT: RT-I-0115					
09	11	S53	BW	4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	341	17357	CE23001997_3.1_01	5:Varela	MW.20_BW	12/09/2023	VT-I-024						
			4" PIPE - A106-B BE SMLS	19	23211707	23310548	PVX1312824		S71								
10	10	S45	BW	4" PIPE - A106-B BE SMLS	19	23211707	23310548	5:Varela	MW.20_BW	13/09/2023	VT-I-025						
			4x4" WN FLANGE ASME B16.5 300# A105N RF	37	07EE23	224997	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: **Patricia Teixeira**
 Date: **25/10/2023**
 Sign: **Patricia Teixeira**

QC

APPROVED by Client

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

APPROVED by 3rd party or AI

Name: **João Amador**
 Date: **30/10/2023**
 Sign: **João Amador**

SGS reviewed by
 NoBo 1155 witnessed by



FLUID CODE: VRG				LINE DATA			
				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	ISSUED FOR CONSTRUCTION	TG	MW	TM		
00	25-08-2023						
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D		

IDENTIFICATION CODE			
Job	Area	Area	N
4274	XHDL	2121	VRG41B09
UNIT	19	SHEET	2
REV	00		
PIPING ASSEMBLY DRAWING	PIPING SUPPORT SPECIFICATION	PIPING STANDARD SUPPORT SUMMARY	WELDING SPECIFICATION
19-L-19-000-2-00-86197 sheet 2	XH-SG-000000002	XH-LP-000000001	XH-SW-000000001
PIPING ISOMETRIC LIST	PIPING TYPICAL INSTALLATIONS	WELDING SPECIFICATION	
XH-LD-21210001	XH-SL-000000002		

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	I117953	2.5 M	
2	FITTINGS REDUCING SOCKLETT MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01611> (L-343)	4X3/4	I1651369	1	
3	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955)	4	I128635	2	
4	45 LR ELBOW ASME B16.9 A234-WPB BE SMLS C02DC04V01 S-STD <45LA200F34STD> (L-7956)	4	I201302	1	
5	FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R354STD> (L-236)	4	I4272446	2	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
6	PIPE PIPE - A106-B PE SMLS T01AC03V02 S-XS <PIPA010A13/4XS> (L-6679)	3/4	I132785	0.2 M	
7	FITTINGS PLUG ROUND HEAD ASME B16.1 - A105N MTE NREQD - R42FQC44W001 NREQD <PLUA300CK3/4> (L-77)	3/4	I10088232	1	
8	GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1S12 <N/A> (N/A)	4	I63508975	3	
9	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G3/441/2> - 2 NUTS PER BOLT - 115 mm Length	3/4	I53437466	24	
10	VALVES / IN-LINE ITEMS GATE VALVE API 600 300# A216-WCB RFFE 8-F&6&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	I5606092	1	
11	BALL CHECK VALVE BS 1868 300# A216-WCB RF 316/PEEK BS 1868 B7/2H 125 - 250 AARH BC SS, NS HORIZONTAL ASME B16.5 V27EFC29BDK NREQD <N/A> (N/A)	4	I65527947	1	
12	GATE VALVE API 602 800# A105N SWE FTE 8-F&6&HF WB-OS&Y SOW API 602 HW V01GIC4412BL NREQD <N/A> (N/A)	3/4	I10015410	1	
13	SUPPORTS RESTING SHOE CLAMPED, COLD INS. -F2A1 H=150 L=300	4	106	1	
14	CLAMPED GUIDE, COLD INS. -F2G1 H=150 L=300	4	292	1	

CUT LIST

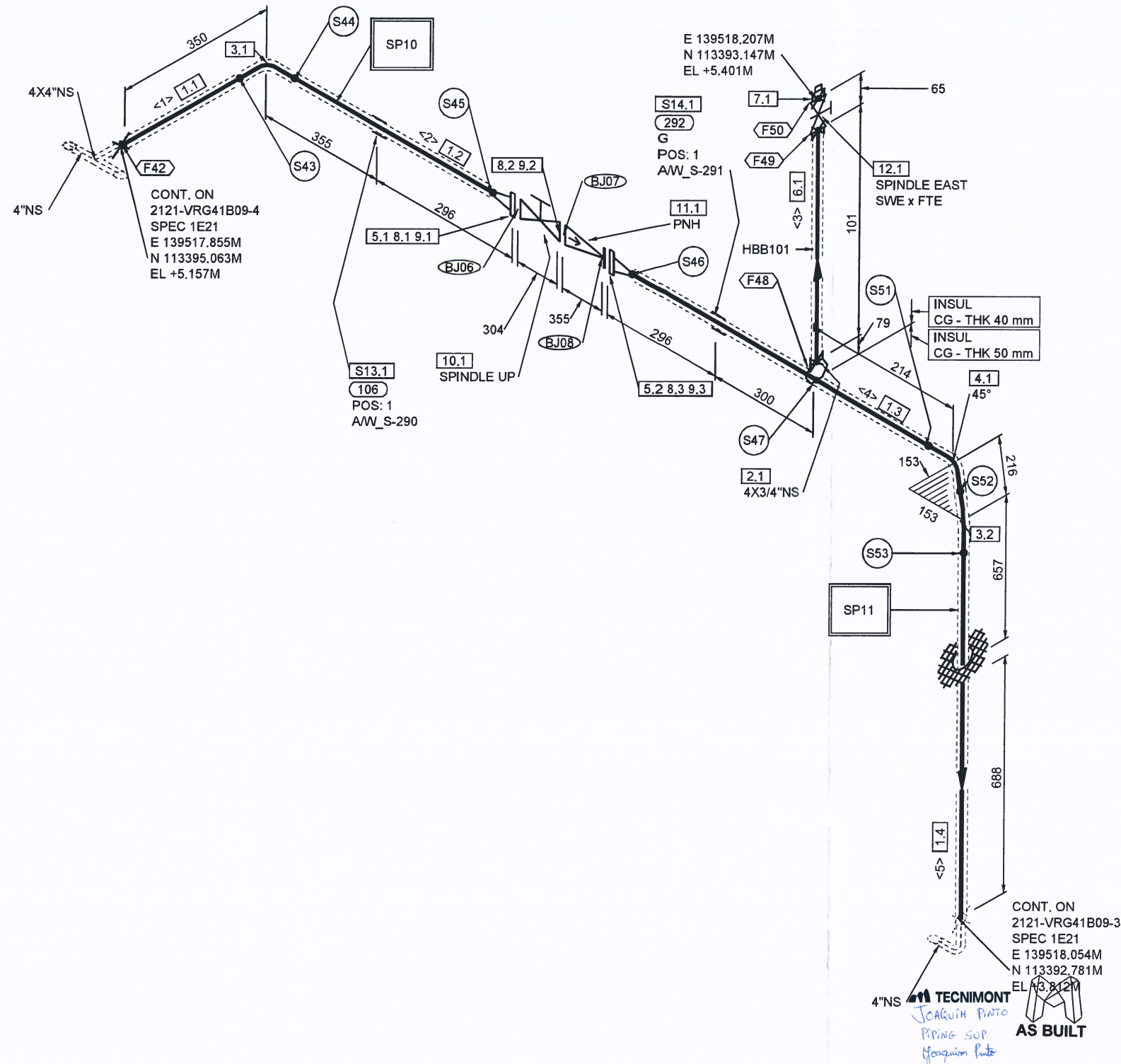
PIECE NO	LENGTH (MM)	SIZE (IN)	WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE	BOLT NO	FLANGE SIZE (IN)	SIZE (IN)	LENGTH (MM)
<1>	196	4"	F42	F	4"	BW	BJ06	4"	3/4"	115
<2>	409	4"	S43	S	4"	BW	BJ07	4"	3/4"	115
<3>	101	3/4"	S44	S	4"	BW	BJ08	4"	3/4"	115
<4>	656	4"	S45	S	4"	BW				
<5>	1192	4"	S46	S	4"	BW				
			S47	S	3/4"	OL				
			F48	F	3/4"	SW				
			F49	F	3/4"	SW				
			F50	F	3/4"	THD				
			S51	S	4"	BW				
			S52	S	4"	BW				
			S53	S	4"	BW				

INCH METER

PIPE NS (IN)	CL LENGTH (M)
4	4.9
0.75	0.2

ISOMETRIC NO. 4274-SP-XH-DL-2121-VRG41B09-2-IS00

SPOOLING REV NO. 00



M	MECWISE	Prep.	TG	PROC. NR.	PCL 22635
		Status:	IFC	Date:	25-08-2023 Rev: 00
Dimensional:		Signature:			
Before Welding					
After Welding					
* Assinalate deviation in the drawings ("+" or "-")					
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

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	SW	S	LET	LET	SOB	B
FW	S	SIB	B	LF	RF	SOF	S
LA	RF	SLW	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