

 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-PR34024-1-SP01;1121-PR43040-1-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




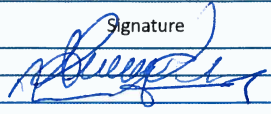
JOAQUIM PINTO
PIPING SPT. TEM
Joaquim Pinto 30/10/2023

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"



 Reviewed by 30/10/2023	 L.Gomes NWI 30/10/2023	 OC		
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] 30/10/2023	Name Francisco Almeida	Signature 	
CONTRACTOR	30/10/2023	L.A.S. Gomes		
COMPANY				
(Free)				

Sheet 01/01

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;1121-VRG41B09-3-SP13;1121-VRG41B09-3-SP12;1121-VRG41B09-2-SP11;1121-VRG41B09-2-SP10;1121-ET40J06-1-SP02;1121-ET40J06-1-SP01;1121-ET40F05-4-SP07;1121-ET40F05-3-SP06;1121-ET40F05-3-SP05;1121-ET40F05-2-SP04;1121-ET40F05-1-SP03;1121-ET40F05-1-SP02;1121-ET40F05-1-SP01;1121-CWR40B02-8-SP10;1121-COM40A01-4-SP07;1121-COM40A01-2-SP02;1121-PR50010-2-SP06;1121-PR50010-2-SP05;1121-PR50010-2-SP04;1121-HXE10C36-1-SP04;1121-HXE10C36-1-SP03;1121-HXE10C36-1-SP02;1121-HXE10C36-1-SP01;1121-ET40S05-1-SP02;1121-ET40S05-1-SP01;1121-PR35013-2-SP06;1121-PR35013-2-SP05;1121-PR34024-1-SP01;1121-PR43040-1-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.

[illegible]

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	30/10/2023	Enayola Ahmed				
CONTRACTOR	30/10/2023	Enayola Ahmed				
COMPANY						
(Free)						

ISO Summary List

22635 / 1228

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-ET40S05-1**

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	Repair 1	Repair 2
01	S02	BW	2" PIPE - A106-B BE SMLS 2x2" WN FLANGE ASME B16.5 300# A105N RF	16 39	23101884 B8AV0	23310545 225263	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							
02	S03	BW	2x2" WN FLANGE ASME B16.5 300# A105N RF 2" PIPE - A106-B BE SMLS	16 39	23101884 B8AV0	23310545 225263	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							
03	S04	BW	2" PIPE - A106-B BE SMLS 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S	16 339	23101884 73	23310545 CE23001995_3.1_01	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							
04	S05	BW	2" 90 LR ELBOW ASME B16.9 A234-WPB BE S 2" PIPE - A106-B BE SMLS	16 339	23101884 73	23310545 CE23001995_3.1_01	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							
05	S06	BW	2" PIPE - A106-B BE SMLS 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S	16 339	23101884 73	23310545 CE23001995_3.1_01	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008		RT: RT-I-082					
06	S07	BW	2" 90 LR ELBOW ASME B16.9 A234-WPB BE S 2" PIPE - A106-B BE SMLS	16 339	23101884 73	23310545 CE23001995_3.1_01	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							
07	S08	BW	2" PIPE - A106-B BE SMLS 2" STRAIGHT TEE ASME B16.9 A234-WPB BE	16 371	23101884 111729	23310545 CE23002064_3.1_01	5-Vareta PVX1312824	MW.20_BW	22/08/2023 S138	VT-I-008							

SGS reviewed by
NoBo 1155 ☐ witnessed by

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

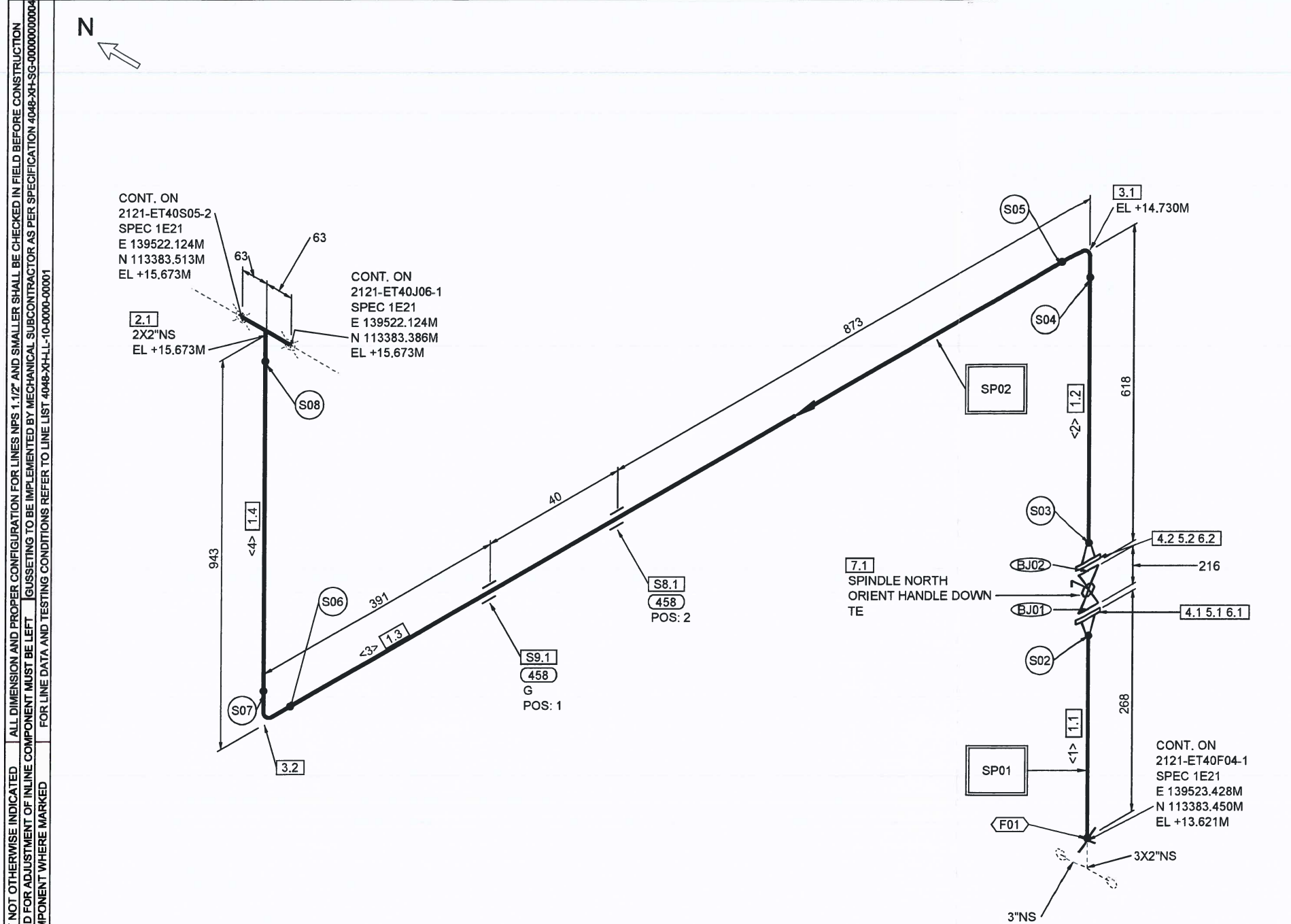
APPROVED by Client

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

APPROVED by 3rd party or AI

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

							LINE DATA							PIPING ISOMETRIC	IDENTIFICATION CODE			
							FLUID CODE: ET		LINE NO. 2"-ET-40S05-1E21						Job	EICT	Area	N



BILL OF MATERIALS



FABRICATION MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806)	2	I117862	2.7 M
2	STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F314151415> (L-6955)	2X2	I129100	1
3	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F32STD> (L-7955)	2	I128529	2
4	WN FLANGE ASME B16.5 300# A 05N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R352STD> (L-236)	2	I5355797	2

ERECTION MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.
5	GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	2	I63508961	2
6	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	I53437440	16
7	VALVES / IN-LINE ITEMS BALL V-FLT-SS-FB API 608 300# / 216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL LE TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29B01F NREQD <B42L-AL105> (L-AL105)	2	I63782520	1
8	SUPPORTS WELDED BRACKET TO STRUCT. SB02 L80X80X10	2	458	1
9	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	2	458	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)	LENGTH (MM)
<1>	196	2"	F01	F	2"	BW	BJ01	2"	5/8"	90
<2>	468	2"	S02	S	2"	BW	BJ02	2"	5/8"	90
<3>	1148	2"	S03	S	2"	BW				
<4>	799	2"	S04	S	2"	BW				
			S05	S	2"	BW				
			S06	S	2"	BW				
			S07	S	2"	BW				
			S08	S	2"	BW				
INCH METER										
PIPE NS (IN)					CL LENGTH (M)					
2					3.6					
ISOMETRIC NO. 4274-SP-XH-DL-2121-ET40S05-1-IS00										SPOOLING REV NO. 00

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

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

M	MECWIDE <small>— 100% — 100% — 100% —</small>	Prep.:	TG	PROC. NR:	PCL 22635
		Status:	IFC	Date:	10-08-2023 Rev: 0
Dimentional:			Signature:		
Before Welding			21/8/2023 		
After Welding			22/8/2023 		
* Assinalate deviation in the drawings ("n" or "n.n").					
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK)					

Notes:	1 DENOTES PARTS LIST NO	PIPE SUPPORT	A = RESTING SUPPORT G = GUIDE F = AXIAL RESTRAINT B = GUIDE + STOP M = SPRING	PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT
WHERE A WITHOUT NUMBERING IS INDICATED THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE				