

 TECNIMONT Tecnimont S.p.A.	 REPSOL REPSOL POLIMEROS SA	4274_CONST 4274-ALBA PROJECT-PP AND PEL PLANTS	
MOD-ITP-XL_220 Rev.1		RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000014_MOD-ITP-XL_220 RFI Nr.: 393 Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000014 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:


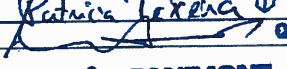
1121-HCM31012-4-SP17;1121-HCM31012-4-SP16;1121-HCM31012-4-SP15;1121-HCM32019-7-SP09;1121-HCM32019-7-SP08;1121-HCM32019-3-SP07;1121-HCM32019-3-SP06;1121-HCM32019-3-SP05;1121-HCM31022-1-SP01;1121-HCM31019-3-SP02;1121-HCM31019-3-SP01;1121-HCM31012-8-SP22;1121-HCM24077-1-SP05;1121-HCM24077-1-SP04;1121-HCM24085-5-SP16;1121-HCM24085-5-SP15;1121-HCM24085-2-SP05;1121-HCM24085-2-SP04;1121-HCM24085-1-SP03;1121-HCM24085-1-SP02;1121-HCM24085-1-SP01;1121-HCM24072-9-SP06;1121-HCM24072-9-SP05;1121-HCM24073-2-SP06;1121-HCM24073-2-SP05;1121-HCM24057-7-SP11;1121-HCM24057-5-SP10;1121-HCM24057-1-SP02;1121-HCM24057-1-SP01;1111-BDL61001-1-SP01;1111-ET01001-1-SP04;1111-ET01001-1-SP03;1111-ET01001-1-SP02;1111-ET01001-1-SP01;1121-PR34015-7-SP10;1121-PR24033-2-SP09;1121-PR24033-2-SP08;1121-PR24007-1-SP06;1121-PR24007-1-SP05;1121-PR43038-3-SP03;1121-PR43038-3-SP01;2121-CWS40G02-4-SP03;2121-CWS40G02-4-SP02;2121-CWS40G02-2-SP07;7111-HXE10D18-3-SP08;7111-HXE10D18-3-SP07;7111-HXE10D18-3-SP06;7111-HXE10D18-2-SP05;7111-HXE10D18-2-SP04;7111-HXE10D18-2-SP03;7111-HXE10D05-6-SP03;7111-HXE10D05-6-SP02;7111-HXE10D05-6-SP01;2211-VRG50A08-2-SP10;2211-VRG50A08-2-SP09;2211-VRG50A08-2-SP08;2121-VA40C01-1-SP02;2121-VA40C01-1-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"

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	21/11/2023	Patricia Teixeira			
CONTRACTOR	21/11/2023	Luis Gomes			
COMPANY					
(Free)					

João Almeida
21/11/2023

JOAQUIM PINTO
PIPING SUP. TEN
João Almeida
21/11/2023

TECNIMONT
L. Gomes
NW1
21/11/2023

ISO Summary List

22635 / 1789

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-VA40C01-1**

Revision **00**

Priority **6**

Piping Size/Class **12-1E21**

PED Category **III**
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	S08	BW	12" 90 LR ELBOW ASME B16.9 A234-WPB BE	565	70886	CE23004159_3_1_01	MW_21_BW	28/09/2023	VT-I-036							
			12" PIPE - A106-B BE SMLS	23	23301260	23310552	4 Eletrodo - SBX0910262	S260									
02	02	S07	BW	12" PIPE - A106-B BE SMLS	23	23301260	23310552	MW_21_BW	28/09/2023	VT-I-036		RT: RT-I-0159					
			12" 90 LR ELBOW ASME B16.9 A234-WPB BE	565	70886	CE23004159_3_1_01	5 Vareta - PVX1312824	S260									
04	02	S06	BW	12x12" WN FLANGE ASME B16.5 300# A105N	36	H3AV22	224878	MW_21_BW	28/09/2023	VT-I-036							
			12" PIPE - A106-B BE SMLS	23	23301260	23310552	4 Eletrodo - SBX0910262	S260									
05	01	S05	BW	12" PIPE - A106-B BE SMLS	23	23301260	23310552	MW_21_BW	29/09/2023	VT-I-037							
			12x12" WN FLANGE ASME B16.5 300# A105N	36	H3AV22	224878	5 Vareta - PVX1312824	S260									
07	01	S02	OL	12" PIPE - A106-B BE SMLS	23	23301260	23310552	MW_20_SBR	29/09/2023	VT-I-037							
			12x.75" REDUCING SOCKOLET MSS SP-97 300	425	2170048	CE2022/1596	PVX1312824	S260		MT: MT-I-015-A							
08	01	S01	BW	12x12" WN FLANGE ASME B16.5 300# A105N	36	H3AV22	224878	MW_21_BW	28/09/2023	VT-I-036							
			12" PIPE - A106-B BE SMLS	23	23301260	23310552	4 Eletrodo - SBX0910262	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

* 4. Eletrodo - SBX0910262
5. Vareta - PVX1312824

APPROVED QC

Name: *Patrice Texeira*
Date: *20/11/2023*
Sign: *Patrice Texeira*

APPROVED by Client

Name: **TECNIMONT**
Date: *20/11/2023*
Sign: *L. Gomes*

APPROVED by 3rd party or AI

Name: *João Amador*
Date: *20/11/2023*
Sign: *SGS*
NoBo 1155 ☐ witnessed by



					LINE DATA							
					FLUID CODE: VA			LINE NO. 12"-VA-40C01-1E21				
					PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.		
00	06-09-2023	ISSUED FOR CONSTRUCTION		TG	MW	TM						
REV	DATE	REVISION DESCRIPTION		DRAWN UP	CHKD UP	APP'D	1E21	N / 0	E	N	1	19-A-19-000-1-01-00001 sheet 32



PIPING ISOMETRIC

IDENTIFICATION CODE

PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		Job	Area	N	
4274		XHDL		2121	VA40C01		
UNIT		19		SHEET	1		REV 00
PIPING ASSEMBLY DRAWING		E C T N		PIPING SUPPORT SPECIFICATION		PIPING STANDARD SUPPORT SUMMARY	
19-L-19-000-2-00-86197 sheet 9		XH-SG-000000002		XH-SG-000000002		XH-LP-000000001	
PIPING ISOMETRIC LIST		E C T N		PIPING TYPICAL INSTALLATIONS		WELDING SPECIFICATION	
XH-LD-21210001		XH-SL-000000002		XH-SW-000000001			

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B112STD> (L-7806)	12	I117814	3.0 M	
2	FITTINGS REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB02011> (L-343)	12X3/4	I1651359	1	
3	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F312STD> (L-7955)	12	I128477	1	
4	FLANGES WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R3512STD> (L-236)	12	I3362519	3	
5	MISCELLANEOUS COMPONENTS SPACER RING ASME B16.48 300# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0501FC65004 <SPRA510F3A20> (L-SPR20)	12	I5355940	1	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
6	PIPE PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A13/4XS> (L-6679)	3/4	I132785	0.2 M	
7	FITTINGS BLIND DISC ASME B16.48 300# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0401FC65004 NREQD <BLIA510F3A20> (L-BLI20)	12	I5355931	1	
8	FLANGES SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS <SWFA300R353/4XS> (L-375)	3/4	I9762190	1	
9	GASKETS SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	12	I63508957	4	
10	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	3/4	I63508950	2	
11	BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G11/863/4> - 2 NUTS PER BOLT - 175 mm Length	1,1/8	I53438064	32	
12	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G11/88> - 2 NUTS PER BOLT - 205 mm Length	1,1/8	I53438070	16	
13	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G5/831/4> - 2 NUTS PER BOLT - 80 mm Length	5/8	I53437418	8	
14	VALVES / IN-LINE ITEMS BALL V-TRUNN ASME B16.34 300# A216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE TRUNNION-MOUNTED GE TIGHT SHUT-OFF (TSO) ASME B16.5 V48JFC29B017 NREQD <B412L-AL219> (L-AL219)	12	I63782524	1	
15	BALL V-FLT-SS-FB API 608 300# A216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL OHV TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29BZZH NREQD <N/A> (N/A)	3/4	I64812611	1	
16	BLIND FLANGE ASME B16.5 300# A105N RFFE NREQD 125 - 250 AARH F10CFC44B005 <BLFA300R353/4> (L-143)	3/4	I1652375	1	
17	SUPPORTS WELDED GUIDE-C1G2 H = 200 L = 300	12	1001	1	
18	VERTICAL TRESTLES TR06 HEA160	12	1001	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>	101	3/4"	S01	S	12"	BW	BJ01	12"	1.1/8"	175
<2>	246	12"	S02	S	3/4"	OL	BJ02	12"	1.1/8"	175
<3>	2326	12"	F03	F	3/4"	SW	BJ03	3/4"	5/8"	80
<4>	346	12"	F04	F	3/4"	SW	BJ04	3/4"	5/8"	80
			S05	S	12"	BW	BJ05	12"	1.1/8"	205
			S06	S	12"	BW				
			SF01	F	12"	FT				
			S07	S	12"	BW				
			S08	S	12"	BW				

INCH METER

PIPE NS (IN)	CL LENGTH (M)
12	5.0
0.75	0.3
0	0

ISOMETRIC NO. 4274-SP-XH-DL-2121-VA40C01-1-1S00

SPOOLING REV NO. 00

AUTHORISED FOR CONSTRUCTION

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

LEGENDS

JOINT TYPE	HMEI TYPE OF JOINT	JOINT TYPE	HMEI TYPE OF JOINT	JOINT TYPE	HMEI TYPE OF JOINT	JOINT TYPE	HMEI 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

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

M MECWIDE	Prep.: TG	PROC. NR: PCL 22635		
Dimensional:	Status: IFC	Date: 06-09-2023 Rev: 00		
Before Welding	Signature: 27.9.2023			
After Welding	Signature: 29.9.2023			
* Assinalate deviation in the drawings ("n" or "n").				
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK)				

TECNIMONT
Joaquim Pinto
PIPING SUP
Joaquim Pinto
AS BUILT