

 Tecnimont S.p.A.	 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-310-000046_RFI914 MOD-ITP-XL_220 RFI Nr.: 914 Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000046_RFI914 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

2211-FW68T63-2-SP01;2211-FW68T62-1-SP02;2211-FW68T62-1-SP01;2121-CWS40B04-2-SP04;2121-CWS40B04-2-SP03;2121-CWS40B04-2-SP02;2121-CWS40B04-1-SP01-ZZ;2121-VA49A04-3-SP13;2121-VA49A02-3-SP06;2121-VA40P04-2-SP03;2121-VA40P04-2-SP02;2121-VA00108-1-SP02;2121-VA00108-1-SP01;2121-LPN91S10-2-SP07;2121-LPN91S10-2-SP06;2121-LPN91S10-2-SP05;1123-N72007-1-SP01;1123-N72006-1-SP02;1123-N72006-1-SP01;1123-JWS64035-1-SP01;1123-JWR72003-1-SP01;1123-BU73047-1-SP02;1123-BU73047-1-SP01;2211-N91M32-3-SP01;2211-VRG50B04-1-SP02;2211-VRG52A01-1-SP01;2211-VRG50B04-3-SP05;2211-VRG50B04-3-SP04;2211-VRG50B04-3-SP03;2211-VRG50B04-3-SP01-ZZ

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**

Pinto Joaquim
Mechanical Piping Spv.

Joaquim Pinto
05/02/2024

 **TECNIMONT**

L. Gomes
NW

05/02/2024

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]	Name	Signature		
CONTRACTOR	05/02/2024	Patricia Teixeira	Patricia Teixeira		
COMPANY					
(Free)					

QC

ISO Summary List

22635 / 1476

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-LPN91S10-2** ✓

Revision **00**

Priority **6**

Piping Size/Class **2-1C13**

PED Category **Art 4.3**
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	05	S17	BW 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 2" PIPE - A106-B BE SMLS ✓	339	73 ✓	CE23001995_3.1_01 ✓ 23310545 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
02	06	S24	BW 2" PIPE - A106-B BE SMLS ✓ 2x2" WN FLANGE ASME B16.5 150# A105N RF ✓	16	23101884 ✓	23310545 ✓ 70HC22 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
07	07	S25	BW 2x2" WN FLANGE ASME B16.5 150# A105N RF ✓ 2" PIPE - A106-B BE SMLS ✓	36	70HC22 ✓	224878 ✓ 23101884 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
08	07	S32	BW 2" PIPE - A106-B BE SMLS ✓ 2x2" WN FLANGE ASME B16.5 150# A105N RF ✓	16	23101884 ✓	23310545 ✓ 70HC22 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
09	06	S23	BW 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 2" PIPE - A106-B BE SMLS ✓	339	73 ✓	CE23001995_3.1_01 ✓ 23310545 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
10	06	S22	BW 2" PIPE - A106-B BE SMLS ✓ 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	16	23101884 ✓	23310545 ✓ 70HC22 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
11	06	S21	BW 2x2" WN FLANGE ASME B16.5 150# A105N RF ✓ 2" PIPE - A106-B BE SMLS ✓	36	70HC22 ✓	224878 ✓ 23101884 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
12	05	S20	BW 2" PIPE - A106-B BE SMLS ✓ 2x2" WN FLANGE ASME B16.5 150# A105N RF ✓	16	23101884 ✓	23310545 ✓ 70HC22 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
13	05	S19	BW 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓ 2" PIPE - A106-B BE SMLS ✓	339	73 ✓	CE23001995_3.1_01 ✓ 23310545 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							
14	05	S18	BW 2" PIPE - A106-B BE SMLS ✓ 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	16	23101884 ✓	23310545 ✓ 73 ✓	5:Vareta PVX1312824	MW.20_BW	30/10/2023 S287	VT-I-059							

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: *05/02/2024*

Sign: *Patricia Teixeira*

APPROVED by Client

Name: **TECNIMONT**

Date: *L. Gomes*


Sign: *L. Gomes*

APPROVED by 3rd party or AI

Name:

Date:

Sign:



REVISION			FLUID CODE: LPN			LINE DATA					
REV	DATE	DESCRIPTION	DRAWN UP	CHKD UP	APP'D	PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.
00	28-08-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM	1C13	N/O	E	N	1	19-A-19-000-1-01-00001 sheet 1/5

IDENTIFICATION CODE			
Job	E/C/L	Area	N
4274	XHDL	2121	LPN91S10
UNIT	19	SHEET	2 REV 00

PLANT: SINES INDUSTRIAL COMPLEX	CLIENT REF: REPSOL POLYMEROS
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PIPING ASSEMBLY DRAWING	PIPING SUPPORT SPECIFICATION	PIPING STANDARD SUPPORT SUMMARY
19-L-19-000-2-00-86196 sheet 1	XH-SG-000000002	XH-LP-000000001
PIPING ISOMETRIC LIST	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.
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B12STD> (L-7806)	2	I117862	4.3 M
2	REDUCING SOCKET WELD MSS-SP-97 3000W A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01413> (L-343)	2X1.1/2	I7843413	1
3	REDUCING SOCKET WELD MSS-SP-97 3000W A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01413> (L-343)	2X3/4	I7843411	1
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <SOLA00F32STD> (L-7955)	2	I128529	3
5	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44B05 S-STD <WNFA300R152STD> (L-149)	2	I5355795	5

ERECTION MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.
6	PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A13/4XS> (L-6679)	3/4	I132785	0.2 M
7	SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS <SWFA300R153/4XS> (L-295)	3/4	I5378342	2
8	SPIRAL WOUND GASKET ASME B16.20 150# RFFE 304/PTFE CARBON STEEL SS 304 ASME B16.5 G03GDB1G12 <SPAQ505R1EA2> (L-SPA04)	2	I2230484	5
9	SPIRAL WOUND GASKET ASME B16.20 150# RFFE 304/PTFE CARBON STEEL SS 304 ASME B16.5 G03GDB1G12 <SPAQ505R1EA3/4> (L-SPA04)	3/4	I2230475	2
10	STUD BOLTS & NUTS ASME B18.31/2 B18.2.2 A193-B7/194-2H INCH SIZE I010B0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 85 mm Length	5/8	I53437429	8
11	STUD BOLTS & NUTS ASME B18.31/2 B18.2.2 A193-B7/194-2H INCH SIZE I010B0301 <SB2R51G5/86> - 2 NUTS PER BOLT - 155 mm Length	5/8	I53437279	8
12	STUD BOLTS & NUTS ASME B18.31/2 B18.2.2 A193-B7/194-2H INCH SIZE I010B0301 <SB2R51G12/21/2> - 2 NUTS PER BOLT - 65 mm Length	1/2	I53437190	8
13	VALVES/IN-LINE ITEMS			
13	BALL VALVE API 608 150# A216-WCB RFFE 316R-PTFE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL LE ASME B16.5 V04JDC29BTR NREQD <BA2L-BA1434> (L-BA1434)	2	I8683137	1
14	DISC CHECK WFR VALVE ASME B16.34 150# A216-WCB RFFE 316R-PTFE, GF 125 - 250 AARH SL VERTICAL & HORIZONTAL CRACK, PRESS. 1/2 PSI ASME B16.5 V04JDC29P01 NREQD <N/A> (N/A)	2	I10016150	1
15	BALL VALVE API 608 150# A216-WCB RFFE 316R-PTFE, GF B7/2H 125 - 250 AARH 2PSB-FULL BORE FLOATING BALL OHW ASME B16.5 V04JDC29B2G NREQD <N/A> (N/A)	3/4	I10013686	1
16	INSTRUMENTS			
17	INSTRUMENT COMPONENT 19P4903	3/4		1
18	SUPPORTS			
17	VERTICAL STAKES WELDED TO STR, ST42 L80X80X10	2	690	1
18	STANDARD GUIDE FOR NOT INS, PIPING-N1G1	2	690	1
19	STANDARD GUIDE FOR NOT INS, PIPING-N1G1	2	692	1
20	STAKES SUPPORTS ST09 L100X100X10	2	692	1
21	STANDARD GUIDE FOR NOT INS, PIPING-N1G1	2	691	1
22	STAKES SUPPORTS ST09 L100X100X10	2	691	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>	1023	2"	F16	F	2"	BW	BJ01	2"	5/8"	85
<2>	2087	2"	S17	S	2"	BW	BJ02	2"	5/8"	85
<3>	366	2"	S18	S	2"	BW	BJ03	2"	5/8"	155
<4>	316	2"	S19	S	2"	BW	BJ04	3/4"	1/2"	65
<5>	101	3/4"	S20	S	2"	BW	BJ05	3/4"	1/2"	65
<6>	496	2"	S21	S	2"	BW	BJ06	2"	5/8"	155
			S22	S	2"	BW				
			S23	S	2"	BW				
			S24	S	2"	BW				
			S25	S	2"	BW				
			F26	F	3/4"	OL				
			F27	F	3/4"	SW				
			F28	F	3/4"	SW				
			F29	F	3/4"	SW				
			F30	F	1 1/2"	OL				
			F31	F	1 1/2"	SW				
			S32	S	2"	BW				

INCH METER	
PIPE NS (IN)	CL LENGTH (M)
2	6.8
0.75	0.2

ISOMETRIC NO. 4274-SP-XH-DL-2121-LPN91S10-2-S00

SPOOLING REV NO. 00



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

AS BUILT

MECOWIDE		Prep: TG	PROC. NR: PCL 22635
Status: IFC		Date: 28-08-2023	Rev: 00
Dimensional:		Signature:	
Before Welding		After Welding	
			

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
SW	G	SW	B	LET	LET	ROW	B
FW	B	SW	B	UP	RF	ROW	B
LA	RF	SW	B	MW	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

00 28-08-2023 ISSUED FOR CONSTRUCTION

REV DATE REVISION DESCRIPTION

DRAWN UP CHKD UP APP'D

FLUID CODE: LPN

LINE NO. 2"-LPN-91S10-1C13

PIPING MATERIAL CLASS INSULATION WELD CLASS HEAT TREATMENT PAINTING CODE P&ID No.

1C13 N/O E N 1 19-A-19-000-1-01-00001 sheet 1/5

TECNIMONT

Pinto Joaquim

Mechanical Piping Spv.

Joaquim Pinto

05/02/2024

MECOWIDE

Prep: TG

Status: IFC

Date: 28-08-2023

Rev: 00

Dimensional:

Before Welding

After Welding

AUTHORISED FOR CONSTRUCTION

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

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

ISOMETRIC NO. 4274-SP-XH-DL-2121-LPN91S10-2-S00

SPOOLING REV NO. 00

SHEET NO. 1 OF 1