




Sheet 01/01

1111-CHWR43011-1-SP01;1111-CHWS61029-1-SP01;1111-LS63002-2-SP05;1111-N67050-1-SP01;1111-N72006-1-SP01;1111-N72006-1-SP02;1121-CHWR21007-1-SP01;1121-CHWR21007-1-SP02;1121-CHWS61024-1-SP01;1121-CHWS61024-1-SP02;1121-IW64025-1-SP01;1121-JWR23001-2-SP01;1121-JWR23001-2-SP02;1121-JWR23001-2-SP03;1121-JWR23003-1-SP01;1121-JWR23003-1-SP02;1121-JWR23003-1-SP03;1121-JWR23003-1-SP04;1121-JWR23003-1-SP05;1121-JWR23003-1-SP06;1121-JWR35001-1-SP03;1121-JWR35001-1-SP04;1121-JWR35001-2-SP01;1121-JWR35001-2-SP02;1121-JWR35001-2-SP03;1121-JWR64001-2-SP03;1121-JWR64001-2-SP04;1121-JWR64001-2-SP05;1121-JWR64001-2-SP06;1121-JWR64001-2-SP07;1121-JWS64026-1-SP09;1121-JWS64026-1-SP10;1121-JWS64026-1-SP11;1121-JWS64026-1-SP12;1121-JWS64026-2-SP06;1121-JWS64026-2-SP07;1121-JWS64026-2-SP08;1121-JWS64048-1-SP01;1121-JWS64048-1-SP02;1121-JWS64048-1-SP03;1121-JWS64048-1-SP04;1121-JWS64048-2-SP04;1121-JWS64048-2-SP05;1121-JWS64048-2-SP06;1121-LS63045-2-SP01;1121-LS63045-2-SP02;1121-LS63045-2-SP03;1121-LS63045-2-SP04;1121-LS63067-3-SP01;1121-LS63067-3-SP02;1121-LS63067-3-SP03;1121-LS63073-3-SP01;1121-LS63073-3-SP02;1121-LS63073-3-SP03;1121-LS63073-4-SP01;1121-LS63203-1-SP17;1121-LS63203-1-SP18;1121-N67052-1-SP01;1121-N67052-1-SP02;1121-N67052-1-SP03;1121-N67061-11-SP07;1121-N67061-11-SP08;1121-N67061-1-SP14;1121-N67061-1-SP15;1121-N67061-2-SP16;1121-N67079-2-SP06;1121-N67079-3-SP07;1121-N67079-4-SP04;1121-N67079-4-SP05;1121-PJW32002-1-SP01;1121-PJW32002-1-SP02;1121-PR34020-1-SP01;1121-VZ34004-1-SP01;1121-VW20002-1-SP01;1121-VW20002-1-SP02;1121-CWR40B05-1-SP01;1121-CWR40B05-1-SP02;1121-PA91P08-2-SP03;1121-PA91P08-2-SP04;1121-VA40N01-1-SP01;1121-VA49A01-1-SP01;1111-CWR91K08-1-SP01;1111-LC91A08-1-SP01

[illegible]

**TECNIMONT**  
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	06/10/2023	Patricia Teixeira	Patricia Teixeira	
CONTRACTOR	06/10/2023	Luis Barros	Luis Barros	
COMPANY				
(Free)				

	 REPSOL POLIMEROS SA	4274_CONST  4274-ALBA PROJECT-PP AND PEL PLANTS	
Tecnimont S.p.A.			
MOD-ITP-XL_220 Rev.1	RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000006_MOD-ITP-XL_220	
		RFI Nr.: 257	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number	IP-WSR-P-310-000006 - IP Spool Release From Workshop		

Sheet 01/01

The Present Inspection Package contains the following Elements:

1111-CHWR43011-1-SP01;1111-CHWS61029-1-SP01;1111-LS63002-2-SP05;1111-N67050-1-SP01;1111-N72006-1-SP01;1111-N72006-1-SP02;1121-CHWR21007-1-SP01;1121-CHWR21007-1-SP02;1121-CHWS61024-1-SP01;1121-CHWS61024-1-SP02;1121-IW64025-1-SP01;1121-JWR23001-2-SP01;1121-JWR23001-2-SP02;1121-JWR23001-2-SP03;1121-JWR23003-1-SP01;1121-JWR23003-1-SP02;1121-JWR23003-1-SP03;1121-JWR23003-1-SP04;1121-JWR23003-1-SP05;1121-JWR23003-1-SP06;1121-JWR35001-1-SP03;1121-JWR35001-1-SP04;1121-JWR35001-2-SP01;1121-JWR35001-2-SP02;1121-JWR35001-2-SP03;1121-JWR64001-2-SP03;1121-JWR64001-2-SP04;1121-JWR64001-2-SP05;1121-JWR64001-2-SP06;1121-JWR64001-2-SP07;1121-JWS64026-1-SP09;1121-JWS64026-1-SP10;1121-JWS64026-1-SP11;1121-JWS64026-1-SP12;1121-JWS64026-2-SP06;1121-JWS64026-2-SP07;1121-JWS64026-2-SP08;1121-JWS64048-1-SP01;1121-JWS64048-1-SP02;1121-JWS64048-1-SP03;1121-JWS64048-1-SP04;1121-JWS64048-2-SP04;1121-JWS64048-2-SP05;1121-JWS64048-2-SP06;1121-LS63045-2-SP01;1121-LS63045-2-SP02;1121-LS63045-2-SP03;1121-LS63045-2-SP04;1121-LS63067-3-SP01;1121-LS63067-3-SP02;1121-LS63067-3-SP03;1121-LS63067-3-SP04;1121-LS63073-3-SP02;1121-LS63073-3-SP03;1121-LS63073-4-SP01;1121-LS63203-1-SP17;1121-LS63203-1-SP18;1121-N67052-1-SP01;1121-N67052-1-SP02;1121-N67052-1-SP03;1121-N67061-11-SP07;1121-N67061-11-SP08;1121-N67061-1-SP14;1121-N67061-1-SP15;1121-N67061-2-SP16;1121-N67079-2-SP06;1121-N67079-3-SP07;1121-N67079-4-SP04;1121-N67079-4-SP05;1121-PJW32002-1-SP01;1121-PJW32002-1-SP02;1121-PR34020-1-SP01;1121-VZ34004-1-SP01;1121-WW20002-1-SP01;1121-WW20002-1-SP02;2121-CWR40B05-1-SP01;2121-CWR40B05-1-SP02;2121-PA91P08-2-SP03;2121-PA91P08-2-SP04;2121-VA40N01-1-SP01;2121-VA49A01-1-SP01;7111-CWR91K08-1-SP01;7111-LC91A08-1-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"

 JOAQUIM PINTO

PIPING SUP  
Joaquim Pinto

LEGEND OF CHECK RESULT ☒ Checked & NOT Accepted ☒ Checked & Accepted N.A. Not Applicable Y / N Punch List Produced

	Date (DD-MMM-YYYY)	Name	Signature
SUBCONTRACTOR	06/10/2023	Patricia Teixeira	Patricia Teixeira
CONTRACTOR	06/10/2023	Luís Gomes	Luís Gomes
COMPANY			
(Free)			



# ISO Summary List

# 22635 / 1235

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-PA91P08-2**

Revision **00**

Priority **6**

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

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	Repair 1	Repair 2
01 04	S13	BW	2" PIPE - A106-B BE SMLS 2x2" WN FLANGE ASME B16.5 150# A105N RF	16	23101884	23310545	5-Varela	MW.20_BW	24/08/2023	VT-I-010							
				36	70HC22	224878	PVX1312824		S71								
02 04	S12	BW	2x2" WN FLANGE ASME B16.5 150# A105N RF 2" PIPE - A106-B BE SMLS	36	70HC22	224878	5-Varela	MW.20_BW	24/08/2023	VT-I-010							
				16	23101884	23310545	PVX1312824		S71								
03 03	S11	BW	2" 90 LR ELBOW ASME B16.9 A234-WPB BE S 2x2" WN FLANGE ASME B16.5 150# A105N RF	339	73	CE23001995.3.1.01	5-Varela	MW.20_BW	24/08/2023	VT-I-010							
				36	70HC22	224878	PVX1312824		S71								
04 03	S10	BW	2" PIPE - A106-B BE SMLS 2" 90 LR ELBOW ASME B16.9 A234-WPB BE S	16	23101884	23310545	5-Varela	MW.20_BW	24/08/2023	VT-I-010		RT: RT-I-083					
				339	73	CE23001995.3.1.01	PVX1312824		S71								
05 03	S09	BW	2" 90 LR ELBOW ASME B16.9 A234-WPB BE S 2" PIPE - A106-B BE SMLS	339	73	CE23001995.3.1.01	5-Varela	MW.20_BW	24/08/2023	VT-I-010							
				16	23101884	23310545	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:

Date:

Sign:

## APPROVED by Client

Name:

Date:

Sign:

## APPROVED by 3rd party or AI

Name:

Date:

Sign:



## Punch List

IDENTIFICATION CODE

## PUNCH LIST

SHEET

1 / 1

DOC.CLASS

1

ISSUE

01



## MECWIDE

ENGINEERING FUND, CHAIR, LEONARDI



**W. AMPER**  
Service Industri

ISO ID: 2121 - PA91P08 - 2

# NO COMMENTS

**TECNIMONT**  
L. Gomes R ☒  
NW W ☐

**TECNIMONT**  
JOAQUIM PINTO  
PIPING SUP.  
Joaquim Pinto

NOTES AND REMARKS

	DATE (dd-Mmm-YYYY)	NAME	SIGNATURE
SUBCONTRACTOR			
CONTRACTOR			
COMPANY			
(Free)			





								LINE DATA				
					FLUID CODE: PA			LINE NO. 2"-PA-91P08-B-1				
					PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.		
00	11-08-2023	ISSUED FOR CONSTRUCTION		TG	MW	TM						
REV	DATE	REVISION DESCRIPTION		DRAWN UP	CHKD UP	APP'D	B-1	N / 0	E	N	1	19-A-19-000-1-01-00001 sheet 112



PIPING ISOMETRIC

IDENTIFICATION CODE

PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		Job	EICL	T	Area	N
				4274	XHDL		2121	PA91P08
				UNIT	19	SHEET	2	REV 00
PIPING ASSEMBLY DRAWING		PIPING SUPPORT SPECIFICATION		PIPING STANDARD SUPPORT SUMMARY				
19-L-19-000-2-00-86196 sheet 4		XH-SG-00000002		XH-LP-00000001				
PIPING ISOMETRIC LIST		PIPING TYPICAL INSTALLATIONS		WELDING SPECIFICATION				
XH-LD-21210001		XH-SL-00000002		XH-SW-00000001				

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE PIPE - A106-B BE SMLS T01AC03/02 S-STD <PIPA010B12STD> (L-7806)	2	I117862	1.5 M	
2	FITTINGS 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F32STD> (L-7955)	2	I128529	2	
3	FLANGES WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R152STD> (L-149)	2	I5355795	3	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
4	GASKETS FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC2> (L-NMG11)	2	I1169030	4	
5	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 - 85 mm Length	5/8	I53437429	16	
6	VALVES / IN-LINE ITEMS GLOBE VALVE BS 1873 150# A216-WCB RFFE 5-HARDFACED BS 1873 B7/2H 125 - 250 AARH BB-OS&Y BS 1873 HW ASME B16.5 V02BDC29B3G NREQD <A42L-125> (L-125)	2	I1974760	1	
7	SWING CHECK VALVE API 594 150# A216-WCB RFFE 8-F&HF API 594 B7/2H 125 - 250 AARH BC ASME B16.5 V21DDC29B1R NREQD <S42L-126> (L-126)	2	I2503229	1	
8	SUPPORTS STANDARD GUIDE FOR NOT INS. PIPING-N1G1	2	628	1	
9	STAKES SUPPORTS ST08 HEA100	2	628	1	

CUT LIST

PIECE NO	LENGTH (MM)	SIZE (IN)
<1>	1258	2"
<2>	221	2"

WELD LIST

WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE
F08	F	2"	BW
S09	S	2"	BW
S10	S	2"	BW
S11	S	2"	BW
S12	S	2"	BW
S13	S	2"	BW

BOLT LIST

BOLT NO	FLANGE SIZE (IN)	SIZE (IN)	LENGTH (MM)
BJ01	2"	5/8"	85
BJ02	2"	5/8"	85
BJ03	2"	5/8"	85
BJ04	2"	5/8"	85

INCH METER

PIPE NS (IN)	CL LENGTH (M)
2	2.6

ISOMETRIC NO. 4274-SP-XH-DL-2121-PA91P08-2-IS00

SPOOLING REV NO. 00

SHEET NO. 1 OF 1

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	S
FW	S	SIB	S	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

TECNIMONT

JOAQUIM PINTO

PIPING SUP.

Joaoquim Pinto

AS BUILT



Prep.: TG	PROC. NR: PCL 22635
Status: IFC	Date: 11-08-2023 Rev: 00
Dimensional:	Signature:
Before Welding	23/08/2023
After Welding	24/08/2023
* Assinalate deviation in the drawings ("+" or "- n").	
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK)	