

 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-310-000114_RFI2159_MOD-ITP-XL_220	
		RFI Nr.:	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000114_RFI2159 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

1211-HOS89004-1-SP04;1211-HOS89004-1-SP03;1211-HOS89004-1-SP02;1211-HOS89004-1-SP01;1211-HOS89002-2-SP11;1211-HOS89002-2-SP10;1211-HOS89002-2-SP09;1211-HOS89002-2-SP08;1211-HOS89002-2-SP07;1211-HOS89002-2-SP06;2121-MS91A01-5-SP05;2121-MS91A01-5-SP04;2121-MS91A01-4-SP09;2121-MS91A01-4-SP08;2121-MS91A01-4-SP07;2121-MS91A01-4-SP06-ZZ;1121-LS63067-1-SP10;1121-LS63067-1-SP09;1121-LS63067-1-SP08;1121-LS63001-2-SP05;1121-LS63001-2-SP04;1121-LS63001-2-SP02-ZZ;1121-LS63001-2-SP01;1121-LS63001-1-SP03

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"

Ion Dragos Andrei  
30.04.2024

  
 L.Gomes  
 NWI  
 03/05/2024

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) 30/04/2024	Name Patricia Texeira	Signature Patricia Texeira	
CONTRACTOR				
COMPANY				
(Free)				



# ISO Summary List

# 22635 / 1785

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-MS91A01-5**

Revision **00**

Priority **2**

Piping Size/Class **6-C-6**

PED Category **I**

**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 04	F10	BW	6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01											
02 05	F15	BW	6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01											
			6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497											
03 06	F18	BW	6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497											
			6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497											
04 04	S11	BW	6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	5:Vareta - PVX1312824		S138								
05 04	S12	BW	6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	5:Vareta - PVX1312824		S138								
06 04	S13	BW	6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	5:Vareta - PVX1312824		S138								
07 04	S14	BW	6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	5:Vareta - PVX1312824		S138								
08 05	S16	BW	6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	5:Vareta - PVX1312824		S138								
09 05	S17	BW	6" 90 LR ELBOW ASME B16.9 A234-WPB BE S ✓	521	722833 ✓	CE23004590_3.1_01	4:Eletrodo - SBX0910262	MW.21_BW	09/10/2023	VT-I-043							
			6" PIPE - A106-B BE SMLS ✓	116	23101232 ✓	23503497	5:Vareta - PVX1312824		S138								

## 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: *30/04/2024*

Sign: *Patricia Teixeira QC*

## APPROVED by Client

Name: **TECNIMONT**

Date: *L. Gomes*

Sign: *L. Gomes*

## APPROVED by 3rd party or AI

Name:

Date:


Sign:







FLUID CODE: MS				LINE DATA			
LINE NO. 6"-MS-91A01-C-6 (HA)				P&ID No.			
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D	C-6	HA / 120
00	06-09-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM		
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D	C-6	HA / 120

 <b>Tecnimont</b>			PIPING ISOMETRIC		IDENTIFICATION CODE						
PLANT: SINES INDUSTRIAL COMPLEX			CLIENT REF: REPSOL POLYMEROS		Job	E I C I T	Area	N			
					4274	XHDL	2121	MS91A01			
					UNIT	19	SHEET	5 REV 00			
REFERENCES	PIPING ASSEMBLY DRAWING		E	C	T	N	PIPING SUPPORT SPECIFICATION				
	19L-19-0003-00-88197 sheet 1		X	H	S	L	X-H-S-0-00000002				
	PIPING ISOMETRIC LIST		E	C	T	N	PIPING TYPICAL INSTALLATIONS				
		XH-LD-212100001		X	H	S	L	X-H-S-L-0000000002			
								WELDING SPECIFICATION			
								X-H-S-W-0000000001			

PIPING ASSEMBLY DRAWING	19-L-19-000-2-00-86197 sheet 1	PIPING SUPPORT SPECIFICATION	XH-SG-00000002	PIPING STANDARD SUPPORT SUMMARY	XH-LP-00000001
PIPING ISOMETRIC LIST	XH-LD-21210001	PIPING TYPICAL INSTALLATIONS	XH-SL-00000002	WELDING SPECIFICATION	XH-SW-00000001

## BILL OF MATERIALS

FABRICATION MATERIALS				
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PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <P1A010B16STD> (L-7806)	6	I117981	22.8 M	
2	FITTINGS 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F36STD> (L-7955)	6	I128667	4	

ERECTION MATERIALS				
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PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
3	SUPPORTS				
4	VERT. TRESTLES WELDED TO STR TR34 HEA100	6	5121	1	
5	RESTING SHOE WELDED -C1A1 H = 150 L = 300	6	5121	1	
6	WELDED BRACKET TO STRUCT. SB02 L100X100X10	6	5224	1	
7	RESTING SHOE WELDED -C1A1 H = 150 L = 300	6	5224	1	
8	VERT. TRESTLES WELDED TO STR TR34 HEA100	6	5223	1	
9	RESTING SHOE WELDED -C1A1 H = 150 L = 300	6	5223	1	
10	WELDED GUIDE-C1G1 H = 150 L = 300	6	5120	1	
11	VERT. TRESTLES WELDED TO STR TR34 HEA160	6	5120	1	
	RESTING SHOE WELDED -C1A1 H = 150 L = 300	6	5226	1	

CUT LIST			WELD LIST			BOLT LIST			
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PIECE NO	LENGTH (MM)	SIZE (IN)	WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE	BOLT NO	FLANGE SIZE (IN)	SIZE (IN)	LENGTH (MM)
<1>	6748	6"	F10	F	6"	BW				
<2>	539	6"	S11	S	6"	BW				
<3>	530-638	6"	SF05	F	6"	FT				
<4>	10997	6"	SF06	F	6"	FT				
<5>	3967	6"	S12	S	6"	BW				
			S13	S	6"	BW				
			S14	S	6"	BW				
			F15	F	6"	BW				
			S16	S	6"	BW				
			S17	S	6"	BW				
			SF07	F	6"	FT				
			SF08	F	6"	FT				
			F18	F	6"	BW				
			SF09	F	6"	FT				

## INCH METER

PIPE NS (IN)	CL LENGTH (M)
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6	24.7
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ISOMETRIC NO. 4274-SP-XH-DL-2121-MS91A01-5-S00

SPOOLING REV NO. 00

SHEET NO. 1 OF 1




ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION. LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED. FOR THE COMPONENT MARKED AS FIELD WELDED ONE WELDED FOR ADJUSTMENT OF IN-LINE COMPONENT MUST BE LEFT. FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4048-XH-LL-10-000-0001.

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## AUTHORISED FOR CONSTRUCTION

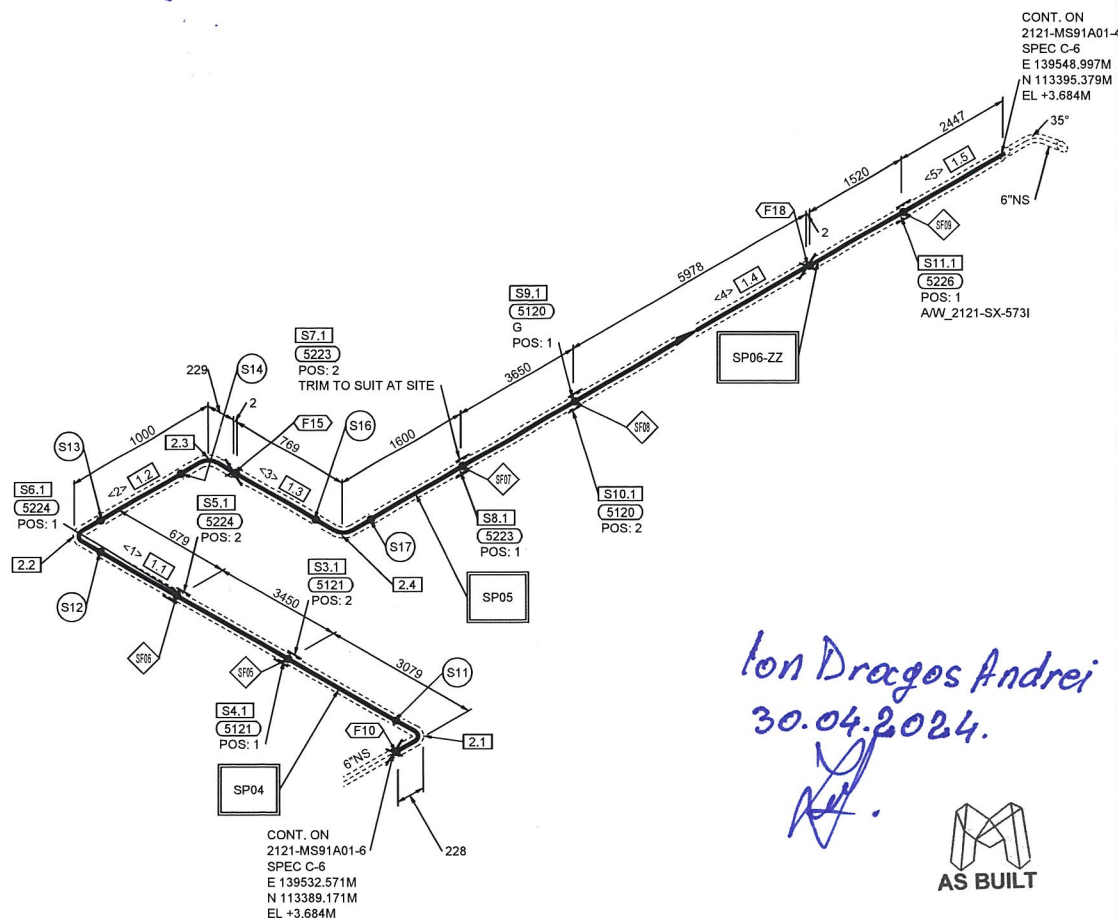
SIGNED FOR CONSTRUCTION IS SHOWN ON ISO LIST FOR RELEVANT PIPING AREA

JOINT TYPE	ISBEL TYPE OF JOINT	JOINT TYPE	ISBEL TYPE OF JOINT	JOINT TYPE	ISBEL TYPE OF JOINT	JOINT TYPE	ISBEL TYPE OF JOINT
BW	G	BW	S	LET	LET	BOB	S
FW	S	BOB	S	LF	RF	BOF	S
LA	RF	BLW	S	MTW	M	THD	TH

 <b>MECOWIDE</b> ENGINEERING CHALLENGES	Prep.: TG	PROC. NR: PCL 22635
	Status: IFC	Date: 06-09-2023 Rev: 0
Dimensional:	Signature:	
Before Welding		
After Welding		
* Assinilate deviation in the drawings ("± n" or "n"):		
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)		

PROJECT: LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT

1 DENOTES PARTS LIST NO  
PIPE 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



Ion Drăgăș Andrei  
30.04.2024.

