

Sheet 01/01

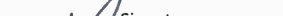

1111-LS63002-1-SP01;1111-N67029-1-SP01;7111-VRG50B04-5-SP02;7111-VRG50B04-5-SP01;7111-N91M14-1-SP02;7111-N91M14-1-SP01;7111-N00D01-20-SP02;7111-N00D01-17-SP47;7111-N00D01-17-SP46;7111-LS91B01-18-SP02;7111-LS91B01-18-SP01;1121-LS63027-2-SP02;1121-LS63027-2-SP01;1121-CHWS61023-1-SP02;1121-CHWS61023-1-SP01;1121-CHWS20005-1-SP03;1121-CHWS20005-1-SP02;1121-CHWS20005-1-SP01;1111-VA00002-1-SP01;2121-VA00028-1-SP02;2121-VA00028-1-SP01;1121-PR34018-1-SP02;1121-PR34018-1-SP01;1121-BDL34014-2-SP04;1121-BDL34014-2-SP03;1111-LS63002-1-SP02;2121-VA00023-1-SP02;2121-VA00023-1-SP01;2121-CWS91J42-2-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

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	19/09/23		F. Almeida			
CONTRACTOR	17/09/2023		Luis Garcia			
COMPANY						
(Free)						

ISO Summary List

22635 / 1225

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-CWS91J42-2**

Revision **00**

Priority **6**


Piping Size/Class **4-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	03	S09	BW 4" PIPE - A106-B BE SMLS 4x4" WN FLANGE ASME B16.5 150# A105N RF	19 36	23211707 10EE23	23310548 224878	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓							
02	03	S08	BW 4" STRAIGHT TEE ASME B16.9 A234-WPB BE 4" PIPE - A106-B BE SMLS	19 19	23211707 23211707	23310548 23310548	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓		RT-RT-I-062-A					
03	03	S07	BW 4" PIPE - A106-B BE SMLS 4" STRAIGHT TEE ASME B16.9 A234-WPB BE	19 19	23211707 23211707	23310548 23310548	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓							
04	03	S06	BW 4x3" REDUCING TEE ASME B16.9 A234-WPB B 4" PIPE - A106-B BE SMLS	19 19	23211707 23211707	23310548 23310548	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓							
05	03	S05	BW 4" PIPE - A106-B BE SMLS 4x3" REDUCING TEE ASME B16.9 A234-WPB B	19 19	23211707 23211707	23310548 23310548	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓							
06	03	S04	BW 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S 4" PIPE - A106-B BE SMLS	341 19	17357 23211707	CE23001997_3.1_01 23310548	5-Varela PVX1312824	MW_20_BW S46	18/08/2023 S46	VT-I-006 ✓							
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: <i>Enchiso Ayuda</i> Date: <i>19/09/23</i> Sign: <i>[Signature]</i> QC				APPROVED by Client Name: <i>D. Katsivelos</i> Date: <i>19/09/23</i> Sign: <i>[Signature]</i>				APPROVED by 3rd party or AI Name: Date: Sign:	



					LINE DATA								
					FLUID CODE: CWS			LINE NO. 4"-CWS-91J42-B-1					
					PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.			
00	10-08-2023	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 107

 Tecnimont		PIPING ISOMETRIC		IDENTIFICATION CODE													
				Job	EICI	Area	N										
PLANT: SINES INDUSTRIAL COMPLEX		CLIENT REF: REPSOL POLYMEROS		4274	XHDL	2121	CWS91J42										
				UNIT	19	SHEET	2	REV	00								
REFERENCES	PIPING ASSEMBLY DRAWING	E	C	T	N	PIPING SUPPORT SPECIFICATION		E	C	T	N	PIPING STANDARD SUPPORT SUMMARY		E	C	T	N
	19-L-19-000-2-00-88192 sheet 1		PIPING SUPPORT SPECIFICATION		XH-SG-000000002		PIPING STANDARD SUPPORT SUMMARY		XH-LP-000000001								
	PIPING ISOMETRIC LIST	E	C	T	N	PIPING TYPICAL INSTALLATIONS		E	C	T	N	WELDING SPECIFICATION		E	C	T	N
	XH-LD-21210001		PIPING TYPICAL INSTALLATIONS		XH-SL-000000002		WELDING SPECIFICATION		XH-SW-000000001								

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE PIPE - A108-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806).	4	I117953	8.1 M	
2	FITTINGS STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F316151615> (L-6955).	4X4	I129183	1	
3	REDUCING TEE ASME B16.9 A234-WPB BE SMLS C32DC04V02 S-STD x <TRBA200F316151515> (L-9917).	4X3	I213042	1	
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955).	4	I128635	1	
5	FLANGES WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R154STD> (L-149).	4	I5355796	1	

ERECTION MATERIALS

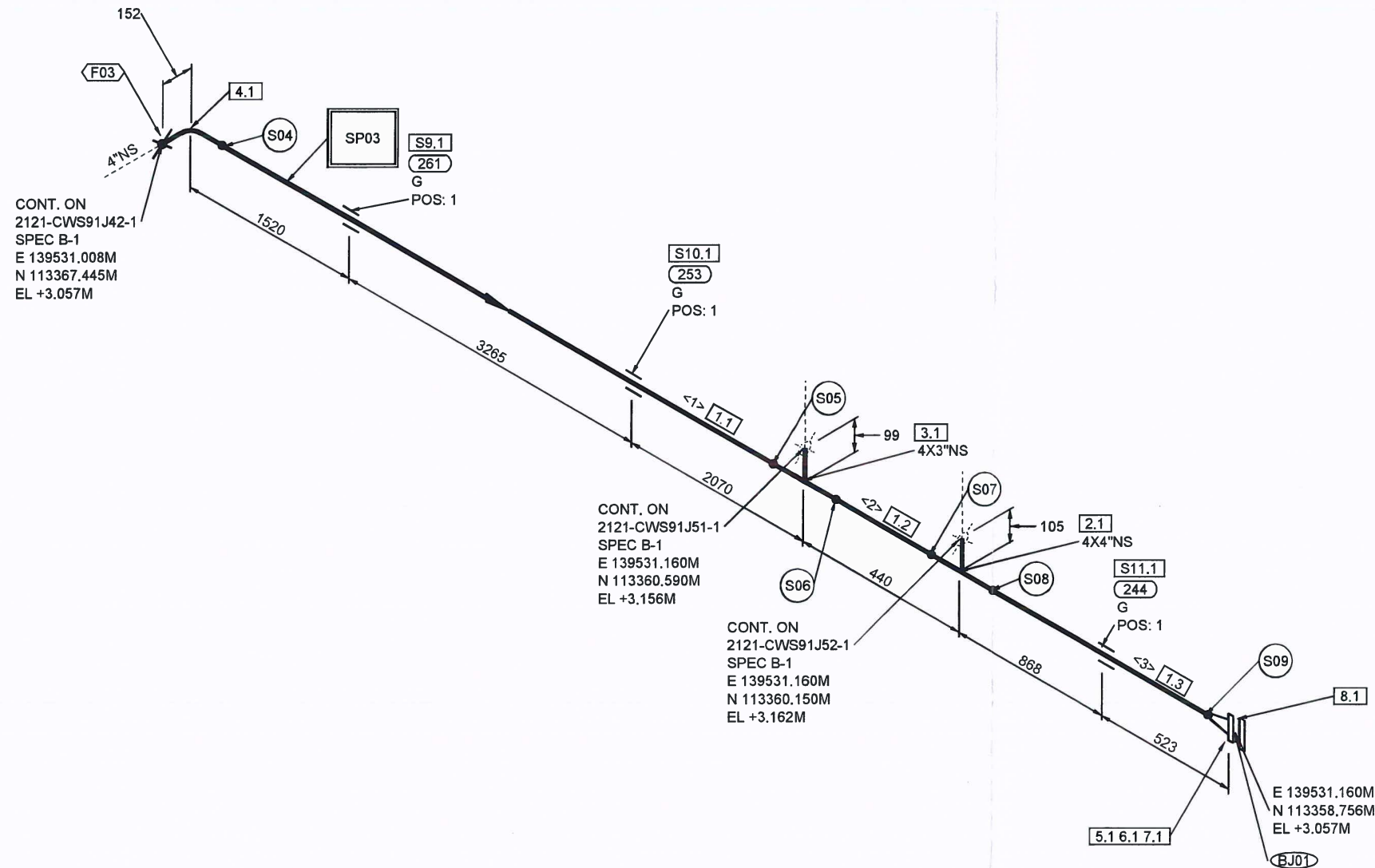
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
6	GASKETS FLAT RING GASKET ASME B16.2 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ00R1FC4> (L-NMG11)	4	I1169033	1	
7	BOLTS STUD BOLTS&NUTS ASME B18.31/2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	I53437440	8	
8	VALVES / IN-LINE ITEMS BLIND FLANGE ASME B16.5 150# A105N RFFE NREQD 125 - 250 AARH F10CDC44B005 <BLFA300R154> L-140).	4	I1652370	1	
9	SUPPORTS STANDARD GUIDE FOR NOT INS. PIPING-N1G1	4	261	1	
10	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	4	253	1	
11	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	4	244	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>	6594	4"	F03	F	4"	BW	BJ01	4"	5/8"	90
<2>	226	4"	S04	S	4"	BW				
<3>	1206	4"	S05	S	4"	BW				
			S06	S	4"	BW				
			S07	S	4"	BW				
			S08	S	4"	BW				
			S09	S	4"	BW				
INCH METER										
PIPE NS (IN)					CL LENGTH (M)					
4					9.0					
ISOMETRIC NO. 4274-SP-XH-DL-2121-CWS91J42-2-IS00										SPOOLING REV NO. 00



TECNIMONT
JOAQUIN PINTO
PIPING SUP
Joaquin Pinto
AS BUILT

 MECWISE Soluções em Segurança		Prep.: TG	PROC. NR: PCL 22635
Status: IFC		Date: 10-08-2023	Rev: 00
Dimensional:		Signature:	
Before Welding	14/8/2023 		
After Welding	19/8/2023 		
* Assinalate deviation in the drawings ("+" or "-").			
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrolo OK)			

AUTHORISED FOR CONSTRUCTION

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

LEGENDS

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

NOTES: 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