

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-SP02;1121-VA00028-1-SP02;1121-VA00028-1-SP01;1121-PR34018-1-SP02;1121-PR34018-1-SP01;1121-BDL34014-2-SP04;1121-BDL34014-2-SP03;1111-LS63002-1-SP02;1121-VA00023-1-SP02;1121-VA00023-1-SP01;1121-CWS91J42-2-SP03

NOTES (*): 4274-XH-PQ-00000001

- 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

TECNIMONT
JOAQUIM PINTO
PIPING SUP.
Joaoquim 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	19/09/23	F. Almeida			
CONTRACTOR	17/09/2023	Luis Gomes			
COMPANY					
(Free)					

ISO Summary List

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Client **TECNIMONT/REPSOL**
Local **Portugal**

Job # **22635**
Project **4274 ALBA-I007 Piping Fabrication**

% RT/UT
% PT/MT

ISO # **2121-VA00023-1** ✓
Piping Size/Class **4-B-1**

Revision **00** ✓
PED Category **NA**

Priority **6**
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	02	S07	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 ✓ ✓							
02	02	S06	BW 4" PIPE - A106-B BE SMLS 4" 90 LR ELBOW ASME B16.9 A234-WPB BE S	✓ 19 ✓ 341	23211707 ✓ 17357 ✓	23310548 ✓ CE23001997_3.1_01 ✓	5:Varela ✓ PVX1312824 ✓	MW.20_BW ✓ S46 ✓	18/08/2023 ✓ S46 ✓	VT-I-006 ✓ ✓							
03	02	S05	BW 4" 45 LR ELBOW ASME B16.9 A234-WPB BE S 4" PIPE - A106-B BE SMLS	✓ 395 ✓ 19	21698 ✓ 23211707 ✓	CE23002009_3.1_01 ✓ 23310548 ✓	5:Varela ✓ PVX1312824 ✓	MW.20_BW ✓ S46 ✓	18/08/2023 ✓ S46 ✓	VT-I-006 ✓ ✓							
05	01	S03	BW 4" 45 LR ELBOW ASME B16.9 A234-WPB BE S 4" PIPE - A106-B BE SMLS	✓ 395 ✓ 19	21698 ✓ 23211707 ✓	CE23002009_3.1_01 ✓ 23310548 ✓	5:Varela ✓ PVX1312824 ✓	MW.20_BW ✓ S46 ✓	18/08/2023 ✓ S46 ✓	VT-I-006 ✓ ✓							
06	01	S02	BW 4" PIPE - A106-B BE SMLS 4" 45 LR ELBOW ASME B16.9 A234-WPB BE S	✓ 19 ✓ 395	23211707 ✓ 21698 ✓	23310548 ✓ CE23002009_3.1_01 ✓	5:Varela ✓ PVX1312824 ✓	MW.20_BW ✓ S46 ✓	18/08/2023 ✓ S46 ✓	VT-I-006 ✓ ✓		RT: RT-I-062-A ✓					
07	01	S01	BW 4x4" WN FLANGE ASME B16.5 150# A105N RF 4" PIPE - A106-B BE SMLS	✓ 36 ✓ 19	10EE23 ✓ 23211707 ✓	224878 ✓ 23310548 ✓	5:Varela ✓ PVX1312824 ✓	MW.20_BW ✓ S46 ✓	18/08/2023 ✓ S46 ✓	VT-I-006 ✓ ✓							
Notes				Remarks						APPROVED QC			APPROVED by Client			APPROVED by 3rd party or AI	
BW-Butt Weld; FW-Fillet Weld; LW-Lap Weld; SW-Socket Weld; TBW-Tee Butt Weld										Name: Francisco Almeida			Name: D. Katsivelos			Name:	
PT-Penetrant Test; MT-Magnetic Test; RT-Radiographic Test										Date: 19/09/23			Date: 19/09/23			Date:	
UT-Ultrasonic Test; PMI-Positive Material Identification										Sign: [Signature] QC			Sign: [Signature]			Sign:	
HT-Hardness Test; PN-Pneumatic Test; FT-Ferrites Test																	



LINE DATA				FLUID CODE: VA				LINE NO. 4"-VA-00023-B-1			
REV	DATE	ISSUED FOR CONSTRUCTION	TG	MW	TM	PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.
00	11-08-2023	ISSUED FOR CONSTRUCTION				B-1	N / O	E	N	1	45-A-45-000-1-01-00001 Sheet 4
REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D						

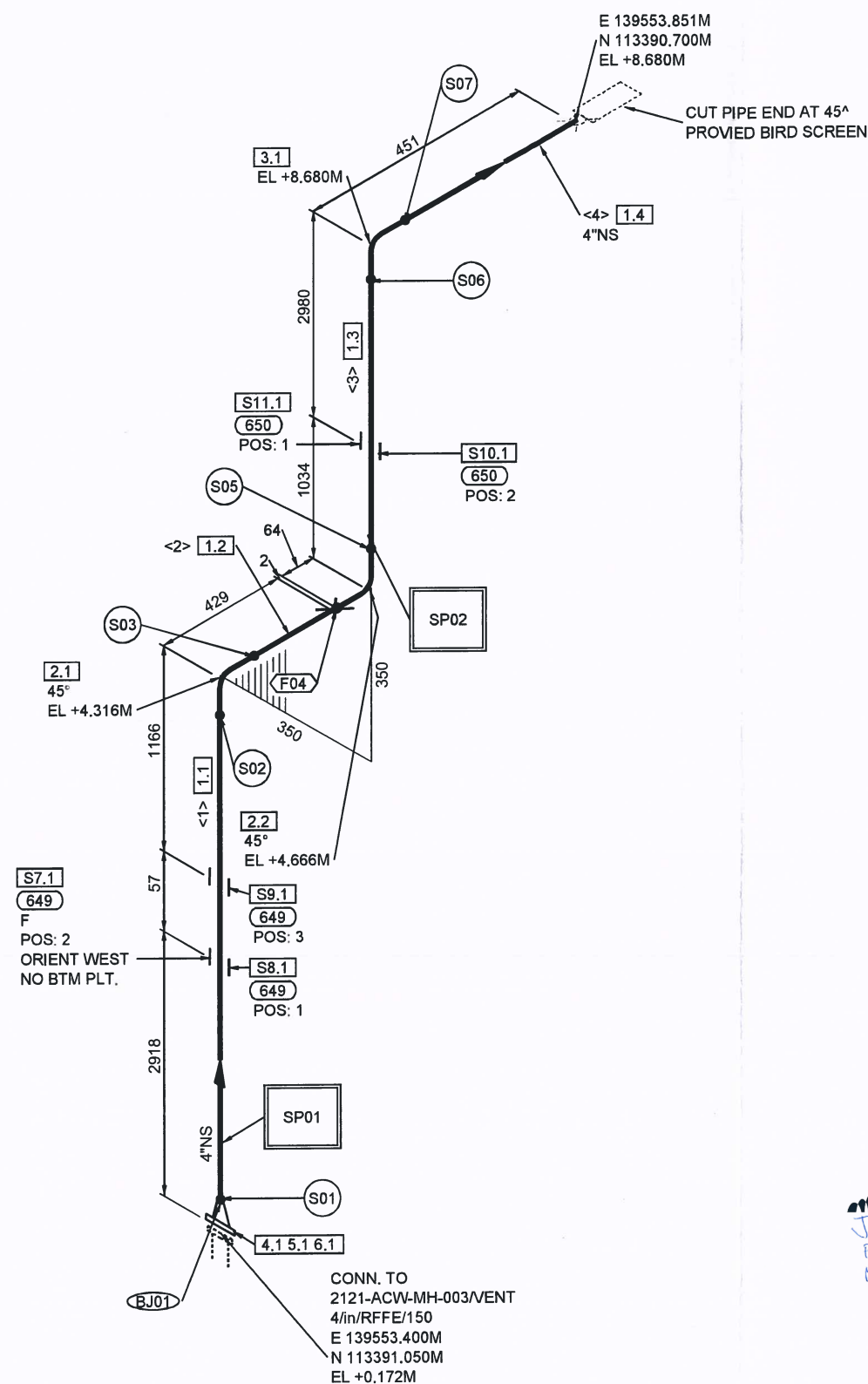
IDENTIFICATION CODE				Job				Area			
4274	XHDL	2121	VA00023	UNIT	45	SHEET	1	REV	00		
PIPING ISOMETRIC				CLIENT REF: REPSOL POLYMEROS				PIPING STANDARD SUPPORT SUMMARY			
PIPING ASSEMBLY DRAWING				PIPING SUPPORT SPECIFICATION				WELDING SPECIFICATION			
PIPING ISOMETRIC LIST				PIPING TYPICAL INSTALLATIONS				WELDING SPECIFICATION			

BILL OF MATERIALS




FABRICATION MATERIALS				
PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.
1	PIPE PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	I117953	8.5 M
2	FITTINGS 45 LR ELBOW ASME B16.9 A234-WPB BE SMLS C02DC04V01 S-STD <45LA200F34STD> (L-7956)	4	I201302	2
3	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955)	4	I128635	1
4	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.
5	GASKETS FLAT RING GASKET ASME B16.2 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC4> (L-NMG11)	4	I1169033	1
6	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
7	SUPPORTS STOP HORIZ VERT FOR NOT INS. PIPING-N1F1	4	649	1
8	U BOLT (FOR GUIDE)-P02D	4	649	1
9	WELDED BRACKET TO STRUCT SB31 - HE120A	4	649	1
10	WELDED BRACKET TO STRUCT. SB02 L100X100X10	4	650	1
11	U BOLT (FOR GUIDE)-P02D	4	650	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)	LENGTH (MM)
<1>	3997	4"	S01	S	4"	BW	BJ01	4"	90
<2>	364	4"	S02	S	4"	BW			
<3>	3795	4"	S03	S	4"	BW			
<4>	297	4"	F04	F	4"	BW			
			S05	S	4"	BW			
			S06	S	4"	BW			
			S07	S	4"	BW			
INCH METER									
PIPE NS (IN)					CL LENGTH (M)				
4					9.1				
ISOMETRIC NO. 4274-SP-XH-DL-2121-VA00023-1-IS00								SPOOLING REV NO. 00	



TECNIMONT
JOAQUIM PINTO
PIPING SUP
Joaoquin Pinto
AS BUILT

 MECWISE <small>— PROJ. 1P — 5.2. 2022</small>	Prep.: TG	PROC. NR: PCL 22635
	Status: IFC	Date: 11-08-2023 Rev: 00
Dimensional:	Signature:	
Before Welding	17/8/2023 	
After Welding	18/8/2023 	
* Assinalate deviation in the drawings ("+" or "- n").		
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)		

AUTHORISED FOR CONSTRUCTION

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

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

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