TECNIMONT Tecnimont S.p.A.	REPSOL REPSOL POLIMEROS SA	4274_CONST ALBA PROJECT–PP AND PEL PLANTS	

MOD-ITP-XL_220 Rev.1	RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000180_RFI3189_MOD-ITP-XL_220	
		RFI Nr.:	Date :

Unit	-
Plant Area	-
Isometric Number	
Inspection Package Number	IP-WSR-P-310-000180_RFI3189 - IP Spool Release From Workshop

Sheet 01/01

The Present Inspection Package contains the following Elements:

1115-PR72015-1-SP02;1115-PR72015-1-SP01;4223-BU10B04-1-SP12;2121-CYG41A07-1-SP01;1115-PR72015-2-SP03
ZZ;1115-PR33027-2-SP02;4223-BU10B04-1-SP11;2121-CYG41A07-1-SP02;4222-FL21F02-2-SP02;4223-BU10B04-4-SP05;2121-ET40A07-1-SP01;4223-ICA14B16-1-SP01;4223-BU10B04-4-SP04;2121-PE41B03-1-SP02;1115-PR72015-2-SP04;1115-PR33027-2-SP01;1115-PR33027-1-SP03
ZZ;4222-FL21F02-2-SP03;4223-BU10B04-3-SP07;2121-CYG41A04-2-SP04
ZZ;2121-PE41B03-1-SP01;1115-PR33027-1-SP04;4223-BU10B04-3-SP09;2121-ET40A07-1-SP03;4223-BU10B04-3-SP08;4223-BU10B04-3-SP06 ZZ;2121-CYG41A04-3-SP05;2121-CYG41A04-2-SP03;2121-ET40A07-1-SP02

Spool No.	Ready for destination to: P: Painting (1) W: Wrapping F: Field	NDE Class	Check List					
			Visual Inspect	Traceability OK (2)	Pending NDE / PMI (Yes/No/NA)	PWHT / HARDNESS (Yes/No/NA)	Inside Cleaning (3) (Yes/No/NA)	Spool Identified (Yes/No/NA)

Ion Dragos Andrei
28.06.2024
On behalf of TCM

ZEGHEFANU ADRIAN
01/07/2024
ON BEHALF OF TCM

JOÃO SUNDIA
01/07/2024

SGS NoBo 1155 ☐ reviewed by ☐ witnessed by

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	01/07/2024	Ionut Anatoli	
CONTRACTOR			
COMPANY			
(Free)			

MECWIDE ENGINEERING CHALLENGES
grupoamper Nervión Industrial
TECNIMONT
REPSOL

ISO Summary List

22635 / 1969
Page 1

Client **TECNIMONT/REPSOL** Job # **22635** % RT/UT
Local **Portugal** Project **4274 ALBA-I007 Piping Fabrication** % PT/MT

ISO # **2121-ET40A07-1** Revision **00** Priority **2B**
Piping Size/Class **8-1E21** PED Category **III** ***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
04	01	S02	OL	8" PIPE - A106-B BE SMLS	22	23302454	23310551	3:Eletrodo - SBX1211788	MW.21_SBR	16/04/2024	VT-M-081							
				8x3" REDUCING WELDOLET MSS SP-97 A105N	CERT. TCM	H12007485XX	2023-03-225-28	17:Vareta - PVX4010501		S263								
05	02	S04	BW	8" 90 LR ELBOW ASME B16.9 A234-WPB BE S	562	930386	CE23004156_3.1_01	3:Eletrodo - SBX1211788	MW.21_BW	11/04/2024	VT-M-081							
				8" PIPE - A106-B BE SMLS	22	23302454	23310551	17:Vareta - PVX4010501		S08								
06	02	S05	BW	8" PIPE - A106-B BE SMLS	22	23302454	23310551	3:Eletrodo - SBX1211788	MW.21_BW	11/04/2024	VT-M-081							
				8" 90 LR ELBOW ASME B16.9 A234-WPB BE S	562	930386	CE23004156_3.1_01	17:Vareta - PVX4010501		S08								
07	03	S07	BW	8" PIPE - A106-B BE SMLS	22	23302454	23310551	3:Eletrodo - SBX1211788	MW.21_BW	11/04/2024	VT-M-081							
				8" STRAIGHT TEE ASME B16.9 A234-WPB BE	214	67935	CE23007079_3.1_01	17:Vareta - PVX4010501		S286								
08	03	S08	BW	8" STRAIGHT TEE ASME B16.9 A234-WPB BE	214	67935	CE23007079_3.1_01	3:Eletrodo - SBX1211788	MW.21_BW	11/04/2024	VT-M-081							
				8x4" ECCENTRIC REDUCER ASME B16.9 A234-	CERT. TCM	87224	CE23011627_3.1_01	17:Vareta - PVX4010501		S286								
09	03	S09	BW	8x4" ECCENTRIC REDUCER ASME B16.9 A234-	CERT. TCM	87224	CE23011627_3.1_01	3:Eletrodo - SBX1211788	MW.20_BW	11/04/2024	VT-M-081							
				4x3" ECCENTRIC REDUCER ASME B16.9 A234-	CERT. TCM	6G2632	CE23011685_1.0_01	17:Vareta - PVX4010501		S286								
10	03	S10	BW	4x3" ECCENTRIC REDUCER ASME B16.9 A234-	CERT. TCM	6G2632	CE23011685_1.0_01	3:Eletrodo - SBX1211788	MW.20_BW	11/04/2024	VT-M-081							
				3x3" WN FLANGE ASME B16.5 300# A105N RF	CERT. TCM	2A08426	BLD-25-0525-005	17:Vareta - PVX4010501		S286								

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	APPROVED by Client	APPROVED by 3rd party or AI
Name: Maria timoteo	Name: [illegible]	Name: João Furtado
Date: 01/07/2024	Date: 01/07/2024	Date: 01/07/2024
Sign: QC	Sign:	Sign:

SGS NoBo 1155 ☐ reviewed by ☐ witnessed by

TECNIMONT	Punch List **PUNCH LIST**	IDENTIFICATION CODE SHEET 1 / 1 · DOC.CLASS 1 · ISSUE 01
MECWIDE ENGINEERING CHALLENGES · GROUP AMPER Nervión Industrial	**ISO ID: 2121 - ET40A07-1**	

No.	Field	Descripton	Date	Completed
		NO COMMENTS		

NOTES AND REMARKS

Ion Dragos Andrei
28.06.2024
On behalf of TCM

RECHEANU ADRIAN
01/07/2024
ON BEHALF OF TCM

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

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FC-1969

REPSOL

REV	DATE	REVISION DESCRIPTION	DRAWN UP	CHKD UP	APP'D
00	11-09-2023	ISSUED FOR CONSTRUCTION	TG	MW	TM

LINE DATA

FLUID CODE: ET — LINE NO. 8"-ET-40A07-1E21

PIPING MATERIAL CLASS	INSULATION	WELD CLASS	HEAT TREATMENT	PAINTING CODE	P&ID No.
1E21	N / 0	E	N	1	19-A-19-000-1-01-00001 sheet 28

Tecnimont — PIPING ISOMETRIC

PLANT: SINES INDUSTRIAL COMPLEX — CLIENT REF: REPSOL POLYMEROS

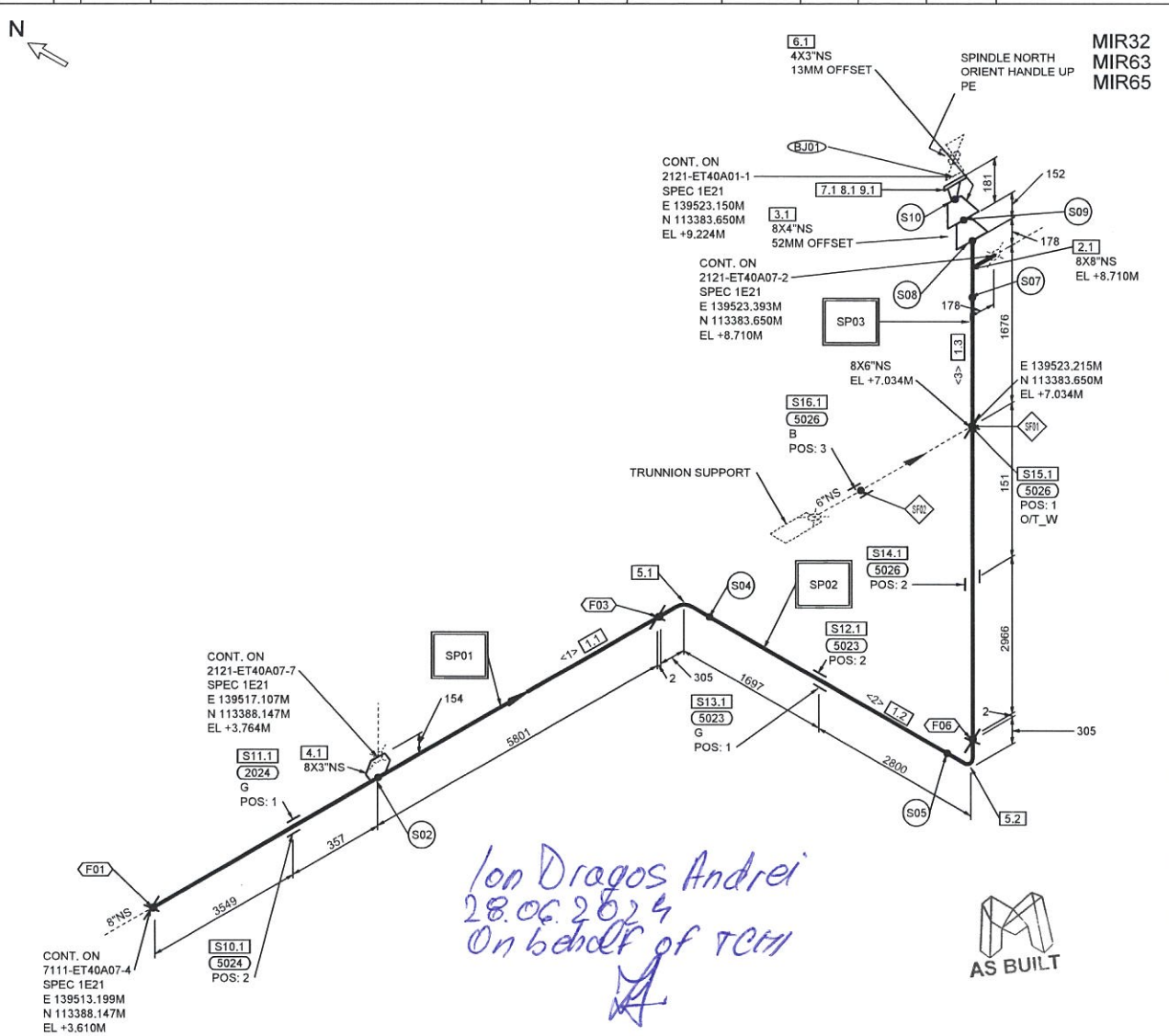
IDENTIFICATION CODE

Job	EICT	Area	N
4274	XHDL	2121	ET40A07
UNIT 19		SHEET 1	REV 00

REFERENCES

PIPING ASSEMBLY DRAWING	19-L-19-000-2-00-86196 sheet 2	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

LINES 1 1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED — ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1 1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION
FOR THE COMPONENT MARKED AS FIELD WELDED,ONE WELDED FOR ADJUSTMENT OF INLINE COMPONENT MUST BE LEFT — GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER SPECIFICATION 4048-XH-SG-00000000004
FIELD WELD SYMBOL FOR ADJUSTMENT OF IN-LINE COMPONENT WHERE MARKED — FOR LINE DATA AND TESTING CONDITIONS REFER TO LINE LIST 4048-XH-LL-10-0000-00001



Ion Dragos Andrei
28.06.2024
On behalf of TCM

AS BUILT

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
	PIPE				
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B18STD> (L-7806)	8	I117995	18.3 M	
	FITTINGS				
2	STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F318151815> (L-6955)	8X8	I129231	1	
3	ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <EREA200F318151615> (L-7959)	8X4	I128375	1	
4	REDUCING WELDOLET MSS-SP-97 A105N BE - C35DC44V01 S-STD S-STD <WOLA300F018151515> (L-6634)	8X3	I1651412	1	
5	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F38STD> (L-7955)	8	I128683	2	
6	ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <EREA200F316151515> (L-7959)	4X3	I128235	1	
	FLANGES				
7	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R353STD> (L-236)	3	I4217853	1	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
	GASKETS				
8	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	3	I63508968	1	
	BOLTS				
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/441/4> - 2 NUTS PER BOLT - 110 mm Length	3/4	I53437465	8	
	SUPPORTS				
10	VERTICAL STAKES WELDED TO STR. ST48 HEA120	8	5024	1	
11	STANDARD GUIDE FOR NOT INS.,PIPING-N1G1	8	2024	1	
12	VERT.TRESTLES WELDED TO STR TR34 HEA120	8	5023	1	
13	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	8	5023	1	
14	WELDED BRACKET TO STRUCT. SB02 HEA140	8	5026	1	
15	WELDED EXTENSIONS-EW05 DN2 = 6 L = 700	8	5026	1	
16	GUIDE AND STOP HORIZ VERT SUPPORT-N1B1	6	5026	1	

CUT LIST

PIECE NO	LENGTH (MM)	SIZE (IN)
<1>	~~0707~~ 9807	8"
<2>	3883	8"
<3>	~~4618~~ 4713	8"

WELD LIST

WELD NO	WELD CAT.	SIZE (IN)	WELD TYPE
F01	F	8"	BW
S02	S	3"	OL
F03	F	8"	BW
S04	S	8"	BW
S05	S	8"	BW
F06	F	8"	BW
SF01	F	8"	FT
SF02	F	6"	FT
S07	S	8"	BW
S08	S	8"	BW
S09	S	4"	BW
S10	S	3"	BW

BOLT LIST

BOLT NO	FLANGE SIZE(IN)	SIZE (IN)	LENGTH (MM)
BJ01	3"	3/4"	110

INCH METER

PIPE NS (IN)	CL LENGTH (M)
8	34.6
4	0.1
3	0.1

ISOMETRIC NO. 4274-SP-XH-DL-2121-ET40A07-1-IS00 — SPOOLING REV NO. 00

MECWIDE ENGINEERING CHALLENGES

Prep.:	TG	PROC. NR:	PCL 22635
Status:	IFC	Date: 11-09-2023	Rev: 00

Dimentional:		Signature:
Before Welding	10.04.24	
After Welding	7.07.24	

* Assinalate deviation in the drawings ("+ n" or "- n").
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
SW	G	SW	S	LET	LET	SOB	S
FW	S	SBS	S	LF	RF	SOF	S
LJ	RF	BLW	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 POLYETHILENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT

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SHEET NO. 1 OF 1