

 Tecnimont S.p.A.	 REPSOL POLIMEROS SA	4274_CONST 4274-ALBA PROJECT-PP AND PEL PLANTS	
MOD-ITP-XL_220 Rev.1	RELEASE OF SPOOLS FROM WORKSHOP	Report n° IP-WSR-P-310-000026_RFI671	MOD-ITP-XL_220
		RFI Nr.: 671	Date :
Unit -			
Plant Area -			
Isometric Number			
Inspection Package Number IP-WSR-P-310-000026_RFI671 - IP Spool Release From Workshop			

Sheet 01/01

The Present Inspection Package contains the following Elements:

2121-VZ40P01-3-SP01;2121-VG40Z03-2-SP01-ZZ;2121-VG40P14-1-SP03;2121-VG40P14-1-SP02;2121-VG40P14-1-SP01;2121-VA49A07-1-SP01;2121-VA40Y02-1-SP02;2121-VA40Y02-1-SP01;2121-VA40U10-2-SP02;2121-VA40U10-1-SP01;2121-VA40U02-2-SP03;2121-VA40U02-2-SP02;2121-VA40U02-1-SP01;2121-MOD40Z24-1-SP01;2121-LPN91S10-1-SP04;2121-LPN91S10-1-SP03;2121-LPN91S10-1-SP02;2121-LPN91S10-1-SP01;2121-CWS91J51-2-SP03;2121-CWS91J51-2-SP02;2121-CWR40B12-2-SP04;2121-CWR40B12-2-SP03;2121-CWR40B12-2-SP02;2121-CWR40B12-1-SP01;2121-CWR40B06-2-SP01;2121-CWR40B06-1-SP03;2121-CWR40B06-1-SP02-ZZ;2121-CWR40B04-1-SP04;2121-CWR40B04-1-SP03;2121-CWR40B04-1-SP02;2121-CWR40B04-1-SP01;2121-CWR40B01-1-SP02;2121-CWR40B01-1-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"


L.Gomes
NW1
R
W
18/12/2023

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	18/12/2023	Patricia Texeira	Patricia Texeira		
CONTRACTOR	18/12/2023	João Paulo Pinto	João Paulo Pinto PIPING SUBC TEN		
COMPANY					
(Free)					

ISO Summary List

22635 / 1452

Page 1

Client **TECNIMONT/REPSOL**

Job # **22635**

% RT/UT

Local **Portugal**

Project **4274 ALBA-I007 Piping Fabrication**

% PT/MT

ISO # **2121-CWR40B12-1** ✓

Revision **00**

Priority **6**

Piping Size/Class **4-B-1**

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	S02	OL	4" PIPE - A106-B BE SMLS ✓ 4x.75" REDUCING SOCKOLET MSS SP-97 3000 ✓	19	23211707 ✓	23310548	5-Varela	MW.20_SBR	04/10/2023 S71	VT-I-040							
03	S04	OL	4" PIPE - A106-B BE SMLS ✓ 4x1.5" REDUCING SOCKOLET MSS SP-97 3000 ✓	19	23211707 ✓	23310548	5-Varela	MW.20_SBR	04/10/2023 S71	VT-I-040							
05	S07	OL	4" PIPE - A106-B BE SMLS ✓ 4x.75" REDUCING SOCKOLET MSS SP-97 3000 ✓	19	23211707 ✓	23310548	5-Varela	MW.20_SBR	04/10/2023 S71	VT-I-040							
07	S01	BW	4x4" WN FLANGE ASME B16.5 150# A105N RF ✓ 4" PIPE - A106-B BE SMLS ✓	36	10EE23 ✓	224878	5-Varela	MW.20_BW	04/10/2023 S71	VT-I-040	MT: MT-I-018-A						
				19	23211707 ✓	23310548	PVX1312824										

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: *18/12/2023*

Sign: *Patricia Teixeira*

APPROVED by Client

Name:

Date: *18/12/2023*

Sign:


TECNIMONT
L. Gomes
NWI

APPROVED by 3rd party or AI

Name:

Date:

Sign:

[illegible]

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



FC-1452

LINE DATA

FLUID CODE: CWR

LINE NO. 4"-CWR-40B12-B-1

PIPING MATERIAL CLASS INSULATION WELD CLASS HEAT TREATMENT PAINTING CODE P&ID No.

ISSUED FOR CONSTRUCTION

TG MW TM
DRAWN UP CHKD UP APP'D

B-1

N / O

E

N

1

19-A-19-000-1-01-00001 sheet 29C



PIPING ISOMETRIC

IDENTIFICATION CODE

Job ECT 1 Area N

4274 XHDL 2121 CWR40B12

UNIT 19 SHEET 1 REV 00

PLANT: SINES INDUSTRIAL COMPLEX CLIENT REF: REPSOL POLYMEROS
PIPING SUPPORT SPECIFICATION XH-SG-00000002
PIPING ISOMETRIC LIST ECT N XH-LD-21210001
PIPING TYPICAL INSTALLATIONS ECT N XH-SL-00000002
WELDING SPECIFICATION ECT N XH-SW-00000001

BILL OF MATERIALS

FABRICATION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	I117953	1.4 M	
2	FITTINGS REDUCING SOCKET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB0161> (L-343)	4X1.1/2	I1651322	1	
3	REDUCING SOCKET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB0161> (L-343)	4X3/4	I1651369	2	
4	FLANGES WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R154STD> (L-149)	4	I5359796	1	

ERECTION MATERIALS

PS NO	DESCRIPTION	NS (MM)	ITEM CODE	QTY.	HOLD
5	PIPE - A106-B PE SMLS T01AC03202 S-XS <PIPA010A111/2XS> (L-6679)	1.1/2	I132899	0.2 M	
6	FLANGES SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS <SWFA300R151/2XS> (L-295)	1.1/2	I5378345	1	
7	GASKETS FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC4> (L-NMG11)	4	I1169033	3	
8	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC11/2> (L-NMG11)	1.1/2	I1655204	1	
9	BOLTS STUD BOLTS/NUTS ASME B18.31/2 B18.2.2 A193-87/A194-2H INCH SIZE I01OB0301 <S82R51G5/631/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	I53437440	8	
10	STUD BOLTS/NUTS ASME B18.31/2 B18.2.2 A193-87/A194-2H INCH SIZE I01OB0301 <S82R51G5/641/4> - 2 NUTS PER BOLT - 105 mm Length	5/8	I53437269	8	
11	STUD BOLTS/NUTS ASME B18.31/2 B18.2.2 A193-87/A194-2H INCH SIZE I01OB0301 <S82R51G1/223/4> - 2 NUTS PER BOLT - 70 mm Length	1/2	I53437201	4	
12	INSTRUMENTS INSTRUMENT COMPONENT 19T4071	1.1.2		1	

CUT 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>	175	1.1/2"	S01	S	4"	BW	BJ01	4"	5/8"	90
<2>	1407	4"	S02	S	3/4"	OL	BJ02	4"	5/8"	105
			F03	F	3/4"	SW	BJ03	1.1/2"	1/2"	70
			S04	S	1.1/2"	OL				
			F05	F	1.1/2"	SW				
			F06	F	1.1/2"	SW				
			S07	S	3/4"	OL				
			F08	F	3/4"	SW				

WELD LIST

BOLT LIST

INCH METER

PIPE NS (IN)	CL LENGTH (M)
4	5.8
1.5	0.2

ISOMETRIC NO. 4274-SP-XH-DL-2121-CWR40B12-1-IS00

SPOOLING REV NO. 00

AUTHORISED FOR CONSTRUCTION

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

LEGEND

JOINT TYPE	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT	WELD TYPE OF JOINT
BW	G	SW	S	LET	LET	BOB	B
PW	B	SW	B	UP	RF	BOF	B
LA	RF	BLW	M	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 DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) FOR PROJECT - ALBA PROJECT

M MECWIDE
Prep: TO Date: 29-08-2023 PCL 22635
Status: IPC
Signature: 03/10/23
Before Welding: 04/10/23
After Welding: 04/10/23
* Assinilate deviation in the drawings (* n" or * n")
Autocontrol (visual) registered in the Welder Production Sheet in the field of observations (Autocontrol OK)



Joaoquin Pinto
Piping Sop. Tem
Joaoquin Pinto 18/12/2023

TAIL SOUTH
JACK SCREWS TO BE SUPPLIED BY MECHANICAL CONTRACTOR.
THE DRILLING AND THREADING FOR JACK SCREW SHALL BE
DONE BY MECHANICAL CONTRACTOR ACCORDING TO
PE-L-0100.13 "JACK SCREW".

CONT. ON
2121-CWR40B07-2
SPEC B-1
E 139530.047M
N 113359.750M
EL +4.444M

SPINDLE S 45 E

SPINDLE EAST

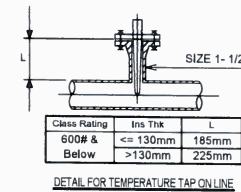
4.1.7.3
GATE VALVE, GLOBE VALVE AND
SPECTACLE BLIND SUPPLIED BY
19-PK-4001 VENDOR.

CONT. ON
2121-CWR40B13-1
SPEC B-1
E 139530.047M
N 113359.679M
EL +5.018M

CONT. ON
2121-CWR40B12-4
SPEC B-1
E 139530.119M
N 113359.750M
EL +5.447M

TI SUPPLIED BY
19-PK-4001 VENDOR.
TI SUPPLIED BY
19-PK-4001 VENDOR.
SEE DETAIL 1

DETAIL 1



12.1
19
TI
4071
E 139530.304M
N 113359.750M
EL +5.300M

SP01

7.1
4X3/4"NS
EL +5.447M

HLA118

6.1.8.1.11.1

5.1

184

70

71

3.2

2.1

1.1

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

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F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263

262

147

EL +5.300M

S04

S07

F08

F06

F05

F03

BJ02

BJ01

7.2.10.1

7.1.9.1

4"NS

4X1.1/2"NS

683

4"NS

263