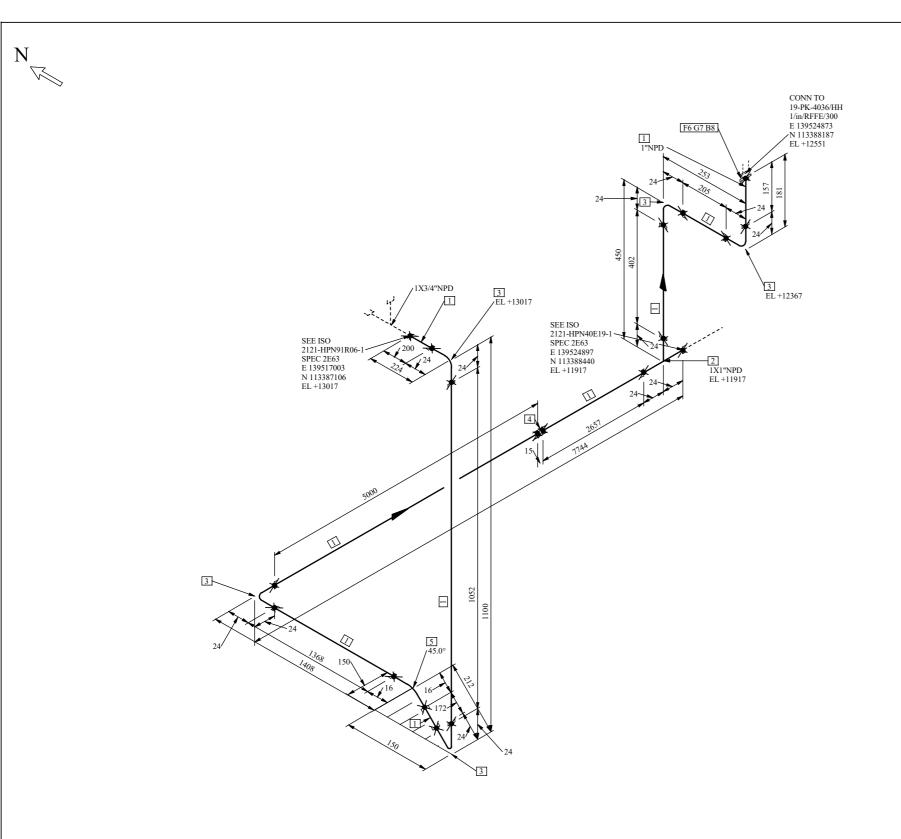
STREAM REV. NO.: 7

STREAM NO.:4214

REMARKS FOR MECHANICAL SUBCONTRACTOR:

1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.



BILL OF MATERIAL HOLD COMPONENT DESCRIPTION ITEM CODE QTY STATUS (IN) PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-40S < PIPB04DA2140S > I2257939 11.2 M (L-PIP111) TEE ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R11FNL2A1101 NREQD 12258184 90 ELBOW ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R31FNL2A1103 12258117 NREQD <90FB450LBK1> (L-90F05) COUPLING ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R01FNL2A1101 I2258105 NREOD <FCPB450LBK1> (L-FCP08) 45 ELBOW ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R32FNL2A1101 I2258129 NREOD <45FB450LBK1> (L-45F04) FLANGES SW FLANGE ASME B16.5 300# A182-F316/316L DUAL GR RFFE SWE 125 - 250 AARH 12500941 F02CFL1MB105 S-40S <SWFB34DR35140S> (L-SWF37) SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/PTFE SS 304 SS 304 ASME I219568 B16.5 G03GFP1IG04 < N/A > (N/A) BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I010B5301 <SB2R55G5/831/4> - 2 NUTS PER BOLT - 80 mm Length

| 1) ELICE III 2 III O ONLI ELECTORI ELE EL TOTO OTTENO EL TOTO EL TOT | | | | | | | | |
|--|--|---|---|--|--|--|---|--|
| 2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION. | | | | | | | | |
| | | | | | | | | |
| 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. | | | | | | | | |
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| | | | | | | | | ١. |
| 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-00902 42/4 - NN-DW-00000002 AND ASSEMBLY NO FEAUOS AND FEUTS. | | | | | | | | _ Տ |
| CURRODATE A LUCIDAD DE DENOTES PARTS LIST NO PIPE A=RESTING SUPPORT G=GUDE F=AXIAL STOP B=ANCHOR M=SPRING S=TEFLON PAD | | | | | | | | |
| SUPPORTS LEGEND: SUPPORT SUPPORT WHEREAWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE. | | | | | | | | |
| | | | | | | | STRESS CALC. Nº | TI |
| | | | | | | | - | |
| | | | | | | | P & ID | 1. |
| | | | | | | | 19-A-19-000-1-01-00001 sheet 114 | |
| 00 ISSUED FOR REFERENCE | | 07-APR-23 | U.CHAVAN | P.VAZE | G.PAGANONI | | LINE LIST Nº | 7 |
| | | | | | | | 19-L-19-000-2-00-80602 | |
| | | | | | | | PIPE LAYOUT Nº | 7 |
| REV. DESCRIPTION | | DATE | DRW. BY | CHECK BY | APPR. BY | APPR. CLIENT | 19-L-19-000-2-00-86196 sheet 4 | |
| | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SY. R EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SSETING TO DE IMPLEMENTED BY MECHANICAL SUBCONTRAC OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTE CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND I TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFIN ERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR OF THE CONTROL OF T | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR REXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00006053. SSETING TO DE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-0 OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICAB TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT DEPOSED BY MECHANICAL SUBCONTRACTOR TO PERFORM IT SUPPORT AS RESINGSUMENTS AS AS | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT OR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SESTING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-X OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOW TOTAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (FERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOCUMENTS LEGEND: DENOTES PARTSLIST NO PIPE | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT OF IN LINE COM R EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-000000002. OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF TO 4274-LZ-FERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00 DRTS LEGEND: DENOTES PARTSLIST NO PIPE A-RESTING SUPPORT G-GUIDE F-AXIA WHERE WITHOUT NUMBERING IS INDICATED, THIS SUPPORT SUPPOR | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST REXTRA PIPE LENGTH REFER TO 4274-LZ-PC-0000603. SESTING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603). FERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902 / 4274-NN-D DRTS LEGEND: DENOTES PARTS LIST NO PIPE A=RESTING SUPPORT G=GUIDE F=AXIAL STOP B=SUPPORT WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT TI | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL A, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT R EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-000000002. OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-0000603). FERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274-NN-DW-00000002 AND DRTS LEGEND: DENOTES PARTSLIST NO PIPE — | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL A CREATER PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SESTING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-000000002. OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603). ERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274 -NN-DW-00000002 AND ASSEMBLY NO DRTS LEGEND: DENOTES PARTS LIST NO PIPE — A-RESTING SUPPORT G=GLIDE F=AXIALSTOP B=ANCHOR M=SPRING S=THE | R THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT R EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. SSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. OSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. TUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603). FOR EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274-NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019. **ORTS LEGEND:** DENOTES PARTSLIST NO |

REFERENCE Signature for construction is shown on Iso list of relevant CWA

ISSUED FOR

ISOMETRIC DRAWING LINE

1"-HPN-91R06-2E63

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

CS, low temperature

INSULATION CODE / THK. (mm)

NR

HEAT TREATMENT (PWHT)

PIPING CLASS

2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102

DRAWING NUMBER

3. WELDING ACCORDING TO 45-L-45-000-2-00-80021

5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE" PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT:

4274-XH-DL-2121HPN91R06-2 2E63 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS PED CATEGORY FOR PROJECT - ALBA PROJECT REPSQL Art 4.3

ANNEX

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

4001008

00

FILENAME: 19-000-2-02-00001 sheet 2121HPN91R06-2.dwg

19-000-2-02-00001 sheet 2121HPN91R06-2