E 139528870 /N 113393792 EL +40719 APTF DRILLING TO BE DONE AT SITE TO SUITE THE INSTRUMENTATION TUBING SIZE. G5 B6 EL +40216 STEM N 25 W F3 G5 B6 PURGING CONNECTION FOR E9 NOZZLE AND BLOWBACK SYSTEM. -2121-ET40F04-39 SPEC 1E21 E 139529183

BILL OF MATERIAL HOLD STATUS COMPONENT DESCRIPTION ITEM CODE QTY (IN) PIPE - A106-B PE SMLS T01AC03Z02 S-XS < PIPA010A13/4XS> (L-6679) I132785 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD I1651298 <90FA300LBK3/4> (L-178) LANGES SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS 19762190 <SWFA300R353/4XS> (L-375) BLIND FLANGE ASME B16.5 300# A105N RFFE NREQD 125 - 250 AARH F10CFC44B005 I1652375 <BLFA300R353/4> (L-143) SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 3/4 163508950 ASME B16.5 G03GFP1IS12 < N/A > (N/A) I53437418 STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 <SB2R51G5/831/4> - 2 NUTS PER BOLT - 80 mm Length VALVES / IN-LINE ITEMS BALL V-FLT-SS-FB API 608 300# A216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 $\,$ I64812611 AARH 2PSB-FULL BORE FLOATING BALL OHW TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29BZZH NREQD <N/A> (N/A)

REMARKS FOR MECHANICAL SUBCONTRACTOR: 1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED. 2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION. 3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ✗ , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. 5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. 6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.							ISSUED FOR REFERENCE
8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-000000603). 9) WHERE 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. SUPPORTS LEGEND: Denotes Parts List no PIPE A-RESTING SUPPORT G=GLIDE F=AVALSTOP B=ANCHOR WHERE AWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.							Signature for construction is on Iso list of relevant CW
						STRESS CALC. Nº	TITLE
						P & ID 19-A-19-000-1-01-00001 sheet 36	ISOMETRIC DRAW
ISSUED FOR REFERENCE	28-APR-23	U.CHAVAN	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602	LINE
DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 9	3/4"-ET-40F04-1E21
J	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 FOR THE COMPONENTS MARKED AS FIELD WEIDED WITH THIS SYMBOL X, ONE WELD FOR FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-C (CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICAB ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBWHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT PPORTS LEGEND: IDENOTES PARTISLIST NO PIPE A-RESTINGS WHERE A RESTINGS WHE	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 FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL X , ONE WELD FOR ADJUSTMENT-FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-X CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOW ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (I) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC PPORTS LEGEND: IDENOTES PARTSLISTNO PIPE A-RESTINGSUPPORT A-RESTINGSUPPORT G= SUPPORT SUPPORT SUPPORT SUPPORT A-RESTINGSUPPORT G= WHERE AWITHOUT NUMBERING BETWEEN BY MECHANICAL SUBCONTRACTOR OF PERFORM IT BASED ON DOC WHERE AWITHOUT NUMBERING BETWEEN BY MECHANICAL SUBCONTRACTOR OF PERFORM IT BASED ON DOC PROPRIED ARE SUPPORT SUPPORTS SUPPORT SUPPORT A-RESTINGSUPPORT G= WHERE AWITHOUT NUMBERING BY BY MECHANICAL SUBCONTRACTOR OF PERFORM IT BASED ON DOC WHERE AWITHOUT NUMBERING BY BY BECHANICAL SUBCONTRACTOR OF PERFORM IT BASED ON DOC SUPPORTS SUPPORT SUPPORT BASED WELL BY A SUPPORT A-RESTINGSUPPORT G= WHERE AWITHOUT NUMBERING BY	LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED. 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PPORTS LEGEND: DENOTES PARTSLIST NO PIPE A-RESTINGSUPPORT A-RESTINGSUPPORT B-ANCHOR WHERE AWITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE. STRESS CALC. N°

ture for construction is shown Iso list of relevant CWA

METRIC DRAWING LINE

PIPE MATERIAL NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102

ANNEX

CS

HEAT TREATMENT (PWHT)

INSULATION CODE / THK. (mm)

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"

19-000-2-02-00001 sheet 2121ET40F04-40

PAINTING SCHEME (3) CONTRACTOR: CONTRACTOR DRAWING NUMBER: PROJECT:

PIPING CLASS 4001008 4274-XH-DL-2121ET40F04-40 1E21 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL) CLIENT / COMPLEX AND POLYPROPYLENE (PP) PLANTS PED CATEGORY

FOR PROJECT - ALBA PROJECT REPSQL

DRAWING NUMBER

REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

00