

ROTARY-TYPE POSITIVE-
DISPLACEMENT COMPRESSOR
DATASHEET
SI UNITS

JOB NO. _____ ITEM NO. _____
PURCHASE ORDER NO. _____ DATE _____
REQUISITION NO. _____
INQUIRY NO. _____
PAGE 1 OF 9 BY _____

☐ DRAWING UNITS: ☐ SI ☐ USC ☐ DUAL (4.3)

1	APPLICABLE TO: ☐ PROPOSAL ☐ PURCHASE ☐ AS-BUILT	DATE _____	REVISION _____				
2	FOR _____	UNIT _____					
3	SITE _____	SERIAL NO. _____					
4	SERVICE _____	NO. REQUIRED _____					
5	MANUFACTURER _____	MODEL _____	DRIVER (6.1) _____				
6	NOTE: ☐ INDICATES INFORMATION TO BE COMPLETED BY PURCHASER ☐ BY MANUFACTURER						
7	OPERATING CONDITIONS						
8	ALL DATA ON PER UNIT BASIS	NORMAL (3.28) (5.1.3)	MAXIMUM	OTHER CONDITIONS (5.1.4)			
9				A	B	C	D
10							
11							
12							
13							
14							
15	☐ CERTIFIED POINT (✓) (5.1.4)						
16	☐ GAS HANDLED (ALSO SEE PAGE 2)						
17	☐ REQUIRED CAPACITY Nm ³ /h (1,013 bar and 0 °C) (DRY) (3.40)						
18	☐ MASS FLOW, kg/hr- (WET)(DRY)						
19	INLET CONDITIONS: ☐ COMPRESSOR INLET FLANGE ☐ CUSTOMER CONNECTION						
20	☐ PRESSURE - kPa [absolute (bar)]						
21	☐ TEMPERATURE (°C)						
22	☐ RELATIVE HUMIDITY (%)						
23	☐ RELATIVE MOLECULAR MASS (M)						
24	☐ C _p /C _v (K ₁) OR (K _{AVG}) (5.1.15 d)						
25	☐ COMPRESSIBILITY (Z ₁) OR (Z _{AVG}) (5.1.15 e)						
26	☐ INLET VOLUME FLOW (m ³ /h) (3.16)						
27	DISCHARGE CONDITIONS: ☐ COMPRESSOR DISCHARGE FLANGE ☐ CUSTOMER CONNECTION						
28	☐ PRESSURE - kPa [absolute (bar)]						
29	☐ TEMPERATURE (°C)						
30	☐ C _p /C _v (K ₂) OR (K _{AVG})						
31	☐ COMPRESSIBILITY (Z ₂) OR (Z _{AVG})						
32	☐ DEW POINT (°C)						
33	☐ OIL CARRYOVER (mg/kg) ¹⁾						
34	☐ kW REQUIRED (ALL LOSSES INCL.)						
35	☐ SPEED (rev/min)						
36	☐ PRESSURE RATIO (R)						
37	☐ VOLUMETRIC EFFICIENCY (%)						
38	☐ SILENCER Δ P kPa [(bar)] (6.9.3)						
39	☐ SETTLE-OUT PRESSURE - kPa [absolute (bar)] (5.1.5)						
40	☐ PERFORMANCE CURVE NO.						
41	¹⁾ Equivalent to the deprecated ppm.						
42	PROCESS CONTROL: (6.4.2.1)						
43	METHOD: ☐ SLIDE VALVE _____						
44	☐ BYPASS FROM _____ TO _____						
45	☐ BYPASS: ☐ MANUAL ☐ AUTO						
46	☐ SPEED VARIATION FROM _____ TO _____						
47	☐ OTHER _____						
48	SIGNAL: ☐ SOURCE _____						
49	☐ TYPE _____						
50	☐ RANGE: FOR PNEUMATIC CONTROL _____ rev/min @ _____ kPa (bar) & _____ rev/min @ _____ kPa (bar)						
51	☐ OTHER _____						
52	SERVICE: ☐ SPECIAL-PURPOSE (3.51) ☐ GENERAL-PURPOSE (3.13)						
53	☐ CONTINUOUS ☐ INTERMITTENT ☐ STANDBY (3.53) ☐ DRY SCREW (3.8) ☐ FLOODED SCREW (3.10)						
54	REMARKS: Unless otherwise noted, all pressures are GAUGE pressures.						
55	(Example: bar refers to gauge pressure; bar abs. refers to absolute pressure)						
56							
57							
58							

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1	GAS ANALYSIS (5.1.15 d)	NOR- MAL	MAX- IMUM	OTHER CONDITIONS				○ REMARKS	
2	○ MOL % ○ _____			A	B	C	D		
3	M.W.								
4	AIR	28,966							
5	OXYGEN	32,000							
6	NITROGEN	28,016							
7	WATER VAPOR	18,016							
8	CARBON MONOXIDE	28,010							
9	CARBON DIOXIDE	44,010							
10	HYDROGEN SULFIDE	34,076						(5.11.1.10)	
11	HYDROGEN	2,016							
12	METHANE	16,042							
13	ETHYLENE	28,052							
14	ETHANE	30,068							
15	PROPYLENE	42,078							
16	PROPANE	44,094							
17	i-BUTANE	58,120							
18	n-BUTANE	58,120							
19	i-PENTANE	72,146							
20	n-PENTANE	72,146							
21	HEXANE PLUS								
22									
23									
24	○ CORROSIVE							(5.11.1.7)	
25	○ SOLID PARTICLE							(5.1.25)	
26	○ LIQUID PARTICLE							(5.1.25)	
27	○ NACE MATERIALS							(5.11.1.10)	
28	TOTAL								
29	RELATIVE MOLECULAR MASS								
30	SITE DATA:				NOISE SPECIFICATIONS: (5.1.19)				
31	LOCATION:				○ APPLICABLE TO MACHINE				
32	○ INDOOR ○ HEATED ○ UNDER ROOF				SEE SPECIFICATION _____				
33	○ OUTDOOR ○ UNHEATED ○ PARTIAL SIDES				○ APPLICABLE TO NEIGHBORHOOD				
34	○ GRADE ○ MEZZANINE ○ _____				SEE SPECIFICATION _____				
35	○ WINTERIZATION REQ'D. ○ TROPICALIZATION REQ'D.				ACOUSTIC HOUSING (5.1.20) ○ YES ○ NO				
36	○ ELEVATION _____ m BAROMETER _____ kPa (bar abs.)				SOUND LEVEL _____ dB @ _____ m _____				
37	○ RANGE OF AMBIENT TEMPS.: DRY BULB WET BULB				dB RE: 20 MICRO PASCAL				
38	SITE RATED °C				APPLICABLE SPECIFICATIONS:				
39	NORMAL °C				○ ACOUSTIC _____				
40	MAXIMUM °C				○ MOTOR _____				
41	MINIMUM °C				_____				
42	ELECTRICAL AREA CLASSIFICATION: (5.1.18, IEC 60079)								
43	○ ZONE _____ GROUP _____ CLASS _____								
44					PAINTING:				
45	UNUSUAL CONDITIONS: ○ DUST ○ FUMES				○ MANUFACTURER'S STD.				
46	○ OTHER _____				○ OTHER _____				
47	_____								
48	_____								
49					SHIPMENT: (7.4.1)				
50	○ VENDOR HAVING UNIT RESPONSIBILITY: (3.56) _____				○ DOMESTIC ○ EXPORT ○ EXPORT BOXING REQ'D				
51					○ LONG TERM STORAGE FOR _____ MONTHS				
52	REMARKS: _____								
53									

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☐ SPEEDS: MAX. CONT. (3.22) _____ rev/min TRIP (3.55) _____ rev/min MAX. TIP SPEEDS: _____ m/s @ MAX. OPER. SPEED MIN. ALLOW (3.25) _____ rev/min ☐ LATERAL CRITICAL SPEEDS: (5.7.1.4) FIRST CRITICAL _____ rev/min DAMPED _____ UNDAMPED _____ MODE SHAPE _____ LATERAL CRITICAL SPEED - BASIS: ☐ DAMPED UNBALANCE RESPONSE ANALYSIS ☐ OTHER TYPE ANALYSIS: _____ (SPECIFY) ☐ POCKET-PASSING FREQUENCY: _____ Hz ☐ TORSIONAL CRITICAL SPEEDS: (5.7.2) FIRST CRITICAL _____ rev/min SECOND CRITICAL _____ rev/min ☐ VIBRATION: (5.7.3.6) HOUSING _____ mm/s RMS SHAFT _____ ☐ ROTATION, LOOKING AT COMPRESSOR DRIVEN END: ☐ CW ☐ CCW ☐ CASING: MODEL _____ CASING SPLIT _____ MATERIAL _____ ☐ CLADDING (5.2.10) OPERATION: ☐ DRY ☐ FLOODED, w/ _____ LIQUID THICKNESS (mm) _____ CORR. ALLOW (mm) _____ MAX. ALLOWABLE WORK PRESS. (3.21) _____ kPa (bar) RELIEF-VALVE SETTING _____ kPa (bar) MARGIN FOR ACCUMULATION _____ kPa (bar) LEAK-TEST GAS: _____ PRESS kPa (bar): _____ (7.3.3.4.3) TEST PRESS. kPa (bar) HE (7.3.4.7) _____ HYDRO (7.3.2) _____ MAX. ALLOW. TEMP. _____ °C MIN. OPER. TEMP. _____ °C COOLING JACKET ☐ YES ☐ NO ☐ ROTORS: (5.5.1) DIAMETER (mm): MALE: _____ FEMALE: _____ NO. LOBES: MALE: _____ FEMALE: _____ TYPE: _____ TYPE FABRICATION _____ MATERIAL _____ MAX. YIELD STRENGTH (N/mm²) _____ BRINELL HARDNESS MAX. _____ MIN. _____ ROTOR LENGTH TO DIAMETER RATIO (L/D) MALE: _____ ROTOR CLEARANCE (mm) _____ _____ _____ INTERNALLY COOLED ☐ YES ☐ NO	☐ SHAFT: (5.5.1.2) MATERIAL _____ DIA @ ROTORS (mm) _____ DIA @ COUPLING (mm) _____ SHAFT END ☐ TAPERED ☐ CYLINDRICAL (5.5.1.5 and 5.5.1.6) SHAFT SLEEVES: ☐ AT SHAFT SEALS _____ ☐ MATL. _____ ☐ TIMING GEARS: (5.5.2) PITCH LINE DIAMETER (mm) _____ MALE: _____ FEMALE: _____ MATERIAL _____ TYPE _____ ☐ SHAFT SEALS: (5.6) ☐ SEAL SYSTEM TYPE (5.6.1.7) _____ ☐ OIL LEAKAGE (CC/MIN/SEAL) _____ ☐ TYPE BUFFER GAS (5.6.2.1) _____ ☐ BUFFER GAS FLOW (PER SEAL) NORMAL: _____ kg/hr. @ _____ kPa (bar) MAX.: _____ kg/hr. @ _____ kPa (bar) ☐ BEARING HOUSING: (5.9) TYPE (SEPARATE, INTEGRAL) _____ SPLIT _____ MATERIAL _____ ☐ HYDRODYNAMIC RADIAL BEARING: (IDENTIFY HIGHEST LOADED BEARING 5.8.3.1) TYPE _____ SPAN (mm) _____ AREA (mm²) _____ LOADING (N/mm²): ACT. _____ ALLOW. _____ NO. PADS _____ ROTOR ON _____ OR BETWEEN _____ PADS PAD MATERIAL _____ TYPE BABBITT _____ THICKNESS _____ (mm) ☐ TEMP SENSORS (5.8.1.5) _____ ☐ TC ☐ RTD TYPE _____ NO. PER BRG _____ ☐ ROLLING ELEMENT RADIAL BEARING (5.8.2) TYPE: _____, Ndm: _____ _____ ENERGY DENSITY (kW-rev/min): _____ ☐ HYDRODYNAMIC THRUST BEARING: (IDENTIFY HIGHEST LOADED BEARING) (5.8.3.2) TYPE _____ MFR. _____ AREA (mm²) _____ LOADING (N/mm²): _____ ACT. _____ ALLOW. _____ NUMBER OF PADS _____ PAD MATERIAL _____ TYPE BABBITT _____ THICKNESS _____ (mm) ☐ TEMP SENSORS (5.8.1.5) _____ ☐ TC ☐ RTD TYPE _____ NO PER BRG _____ ☐ ACTIVE ☐ INACTIVE ☐ ROLLING ELEMENT THRUST BEARING (5.8.2) TYPE: _____, Ndm: _____ _____ ENERGY DENSITY (kW/min): _____
REMARKS: _____ _____ _____	

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☐ PROCESS CONNECTIONS - COMPRESSOR CASING(5.3): <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th></th> <th>SIZE</th> <th>RATING</th> <th>FACING</th> <th>ORIENTATION</th> </tr> <tr> <td>INLET</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DISCHARGE</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> ☐ PROCESS CONNECTIONS - CUSTOMER INTERFACE: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th></th> <th>SIZE</th> <th>RATING</th> <th>FACING</th> <th>ORIENTATION</th> </tr> <tr> <td>INLET</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DISCHARGE</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> ☐ CASING - ALLOWABLE PIPING FORCES AND MOMENTS: (5.4) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th></th> <th colspan="2">INLET</th> <th colspan="2">DISCHARGE</th> <th colspan="2"></th> </tr> <tr> <th></th> <th>FORCE N</th> <th>MOMT N-m</th> <th>FORCE N</th> <th>MOMT N-m</th> <th>FORCE N</th> <th>MOMT N-m</th> </tr> <tr> <td>AXIAL X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>VERTICAL Y</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>HORIZ. 90° Z</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> ☐ OTHER CONNECTIONS: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th>SERVICE:</th> <th>NO.</th> <th>SIZE</th> <th>TYPE/RATING</th> </tr> <tr><td>LUBE-OIL INLET</td><td></td><td></td><td></td></tr> <tr><td>LUBE-OIL OUTLET</td><td></td><td></td><td></td></tr> <tr><td>SEAL-OIL INLET</td><td></td><td></td><td></td></tr> <tr><td>SEAL-OIL OUTLET</td><td></td><td></td><td></td></tr> <tr><td>CASING DRAINS (5.3.4)</td><td></td><td></td><td></td></tr> <tr><td>VENTS</td><td></td><td></td><td></td></tr> <tr><td>COOLING-WATER INLET</td><td></td><td></td><td></td></tr> <tr><td>COOLING-WATER OUTLET</td><td></td><td></td><td></td></tr> <tr><td>LIQUID INJECTION</td><td></td><td></td><td></td></tr> <tr><td>OIL INJECTION</td><td></td><td></td><td></td></tr> <tr><td>PURGE FOR:</td><td></td><td></td><td></td></tr> <tr><td>BRG. HOUSING</td><td></td><td></td><td></td></tr> <tr><td>BETWEEN BRG. & SEAL</td><td></td><td></td><td></td></tr> <tr><td>BETWEEN SEAL & GAS</td><td></td><td></td><td></td></tr> <tr><td>☐ OTHER</td><td></td><td></td><td></td></tr> </table>		SIZE	RATING	FACING	ORIENTATION	INLET					DISCHARGE						SIZE	RATING	FACING	ORIENTATION	INLET					DISCHARGE						INLET		DISCHARGE					FORCE N	MOMT N-m	FORCE N	MOMT N-m	FORCE N	MOMT N-m	AXIAL X							VERTICAL Y							HORIZ. 90° Z							SERVICE:	NO.	SIZE	TYPE/RATING	LUBE-OIL INLET				LUBE-OIL OUTLET				SEAL-OIL INLET				SEAL-OIL OUTLET				CASING DRAINS (5.3.4)				VENTS				COOLING-WATER INLET				COOLING-WATER OUTLET				LIQUID INJECTION				OIL INJECTION				PURGE FOR:				BRG. HOUSING				BETWEEN BRG. & SEAL				BETWEEN SEAL & GAS				☐ OTHER				AXIAL POSITION DETECTOR: (6.4.4.3) ☐ IN ACCORDANCE WITH: API 670 ☐ TYPE _____ ☐ MODEL _____ ☐ MFR. _____ ☐ NO. REQ'D _____ ☐ OSCILLATOR-DETECTORS SUPPLIED BY _____ ☐ MFR. _____ ☐ MODEL _____ ☐ MONITOR SUPPLIED BY _____ ☐ LOCATION _____ ENCLOSURE _____ ☐ MFR. _____ ☐ MODEL _____ ☐ SCALE RANGE _____ ☐ ALARM: ☐ SET @ _____ ☐ SHUTDOWN: ☐ SET @ _____ ☐ TIME DELAY _____ COUPLINGS: (6.2) ☐ IN ACCORDANCE WITH: API 671 OTHER (SPECIFY) _____ <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th>DRIVER-COMP OR DRIVER</th> <th>GEAR-COMP</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> ☐ MAKE ☐ MODEL ☐ MOUNT CPLG. HALVES ☐ SPACE REQUIRED ☐ LIMITED END FLOAT REQ'D ☐ MOMENT SIMULATOR REQUIRED (6.2.5) ☐ CPLG. RATING (kW/100 rev/min) _____ ☐ KEYED (1) OR (2) OR HYDR. FIT _____ BASEPLATE & SOLEPLATES: (6.3.2 & 6.3.3) SOLEPLATES FOR: ☐ COMPRESSOR ☐ GEAR ☐ DRIVER BASEPLATE: ☐ COMMON (UNDER COMP. GEAR & DRIVER) ☐ UNDER COMP. ONLY ☐ OTHER _____ ☐ DECKED WITH NON-SKID DECK PLATE ☐ OPEN CONSTR. ☐ DRIP RIM ☐ WITH OPEN DRAIN ☐ SUBPLATE ☐ HORIZONTAL ADJUSTING SCREWS FOR EQUIPMENT ☐ SUITABLE FOR COLUMN SUPPORT (6.3.2.4) ☐ SUITABLE FOR PERIMETER SUPPORT ☐ EPOXY GROUT/EPOXY PRIMER (6.3.1.6) LUBE-OIL SYSTEM (5.10) ☐ LUBRICANT MANUFACTURER _____ ☐ LUBRICANT TYPE _____ GRADE (ISO 3448) _____ ☐ 614 LUBE-OIL SYSTEM (5.10.2.3 & 5.10.3, ANNEX D) ☐ COMMON (5.10.2.1) ☐ DEDICATED SYSTEM ☐ OIL FILTER (5.10.3.2) ☐ OIL COOLER (5.10.3.3): TYPE _____ NO. _____ ☐ OIL PUMP (5.10.3.4): TYPE _____ NO. _____ ☐ OIL SEPARATOR (5.10.3.5) ☐ TYPE _____ ☐ NO. _____ ☐ OIL CARRYOVER (mg/kg) _____ (l/DAY) _____ ☐ RETENTION TIME (MIN) _____ ☐ RELIEF VALVE ☐ LEVEL GAUGE ☐ LEVEL SWITCH ☐ PRESSURE DIFFERENTIAL INDICATOR ☐ ELECTRIC HEATER	DRIVER-COMP OR DRIVER	GEAR-COMP												
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1 UTILITY CONDITIONS: (ALL UNITS ARE GAUGE) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">STEAM</td> <td style="width: 15%;">DRIVERS</td> <td style="width: 15%;">HEATING</td> <td style="width: 15%;"></td> </tr> <tr> <td>3</td> <td>INLET</td> <td>MIN. _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td>NORM _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> <tr> <td>5</td> <td></td> <td>MAX. _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> <tr> <td>6</td> <td>EXHAUST</td> <td>MIN. _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> <tr> <td>7</td> <td></td> <td>NORM _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> <tr> <td>8</td> <td></td> <td>MAX. _____ kPa (bar) _____ °C</td> <td>_____ kPa (bar) _____ °C</td> <td></td> </tr> </table> 9 ELECTRICITY: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;">DRIVERS</td> <td style="width: 15%;">HEATING</td> <td style="width: 15%;">CONTROL</td> <td style="width: 15%;">SHUT-DOWN</td> </tr> <tr> <td>10</td> <td>VOLTAGE</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>11</td> <td>HERTZ</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>12</td> <td>PHASE</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table> 14 COOLING WATER 15 TEMP. INLET _____ °C MAX. RETURN _____ °C 16 PRESS. NORM _____ kPa (bar) DESIGN _____ kPa (bar) 17 MIN. RETURN _____ kPa (bar) MAX. ALLOW ΔP _____ kPa (bar) 18 WATER SOURCE _____ 19 INSTRUMENT AIR: 20 MAX. PRESS. _____ kPa (bar) MIN. _____ kPa (bar) 21 ☐ TOTAL UTILITY CONSUMPTION: 22 COOLING WATER _____ m³/h 23 STEAM, NORMAL _____ kg/h 24 STEAM, MAX. _____ kg/h 25 INSTRUMENT AIR _____ Nm³/h 26 HP (DRIVER) _____ kW		STEAM	DRIVERS	HEATING		3	INLET	MIN. _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C		4		NORM _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C		5		MAX. _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C		6	EXHAUST	MIN. _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C		7		NORM _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C		8		MAX. _____ kPa (bar) _____ °C	_____ kPa (bar) _____ °C			DRIVERS	HEATING	CONTROL	SHUT-DOWN	10	VOLTAGE	_____	_____	_____	11	HERTZ	_____	_____	_____	12	PHASE	_____	_____	_____	☐ MASSES (kg): COMPR. _____ GEAR _____ DRIVER _____ BASE _____ ROTORS: COMPR. _____ DRIVER _____ GEAR _____ COMPR. UPPER CASE _____ L.O. CONSOLE _____ S.O. CONSOLE _____ MAX. FOR MAINTENANCE (IDENTIFY) _____ TOTAL SHIPPING MASS _____ ☐ SPACE REQUIREMENTS (mm): COMPLETE UNIT L _____ W _____ H _____ L.O. CONSOLE L _____ W _____ H _____ S.O. CONSOLE: L _____ W _____ H _____ MISCELLANEOUS: ☐ RECOMMEND STRAIGHT RUN OF PIPE DIA. BEFORE SUCTION ☐ VENDOR'S REVIEW & COMMENTS ON PURCHASER'S PIPING & FOUNDATION (5.1.16) ☐ VENDOR REPRESENTATIVE OBSERVATION AT THE SITE (5.1.17) ☐ OPTICAL ALIGNMENT FLATS REQUIRED ON COMPRESSOR, GEAR & DRIVER ☐ LATERAL ANALYSIS REPORT REQUIRED (5.7.1.4) ☐ TORSIONAL ANALYSIS REPORT REQUIRED (5.7.2.1) ☐ CASING MOUNTED TORSIONAL SHAFT VIBRATION PICKUP ☐ COORDINATION MEETING (8.1.3) INLET & DISCHARGE DEVICES: ☐ HIGH-EFFICIENCY INLET SEPARATOR REQUIRED (6.8.2) ☐ INLET AIR-FILTER DP INDICATION TYPE (6.7.3) _____ ☐ PULSATION SUPPRESSORS FURNISHED BY _____ ☐ SPARE PARTS TO BE SUPPLIED (8.2.3 f) ☐ ROTOR ASSEMBLY ☐ SEALS ☐ GASKETS, O-RINGS ☐ START-UP/COMMISSIONING ☐ 2 YEARS' SUPPLY ☐ OTHER: _____ REMARKS: _____ _____ _____ _____ _____ _____																																					
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30 SHOP INSPECTION AND TESTS (7.1): <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">REQ'D</th> <th style="width: 10%;">WITNESS</th> <th style="width: 10%;">OBSERVE</th> </tr> <tr><td>31 SHOP INSPECTION (7.1.5)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>32 HYDROSTATIC (7.3.2)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>33 HELIUM LEAK (7.3.4.7)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>34 MECHANICAL RUN (7.3.3)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>35 MECHANICAL RUN SPARE ROTORS (7.3.3.4.2)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>36 CASING LEAK TEST (7.3.3.4.3)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>37 PERFORMANCE TEST (GAS) (AIR) (7.3.4.2)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>38 COMPLETE-UNIT TEST (7.3.4.3)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>39 USE SHOP LUBE & SEAL SYSTEM</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>40 USE JOB LUBE & SEAL SYSTEM (7.3.4.9)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>41 USE SHOP VIBRATION PROBES, ETC.</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>42 USE JOB VIB. & AXIAL DISP. PROBES</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>43 USE JOB SEISMIC TRANSDUCERS</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>44 USE JOB MONITORING EQUIPMENT</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>45 PRESSURE COMP. TO FULL OPER. PRESSURE</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>46 DISASSEMBLE-REASSEMBLE COMP.</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>47 AFTER TEST (7.3.4.10)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>48 SOUND-LEVEL TEST (7.3.4.8)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>49 TANDEM TEST (7.3.4.5)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>50 AUX.-EQUIPMENT TEST (7.3.4.9)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>51 FULL-LOAD TEST (7.3.4.11)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>52 RESIDUAL UNBALANCE CHECK (5.7.3.5)</td><td>☐</td><td>☐</td><td>☐</td></tr> </table>		REQ'D	WITNESS	OBSERVE	31 SHOP INSPECTION (7.1.5)	☐	☐	☐	32 HYDROSTATIC (7.3.2)	☐	☐	☐	33 HELIUM LEAK (7.3.4.7)	☐	☐	☐	34 MECHANICAL RUN (7.3.3)	☐	☐	☐	35 MECHANICAL RUN SPARE ROTORS (7.3.3.4.2)	☐	☐	☐	36 CASING LEAK TEST (7.3.3.4.3)	☐	☐	☐	37 PERFORMANCE TEST (GAS) (AIR) (7.3.4.2)	☐	☐	☐	38 COMPLETE-UNIT TEST (7.3.4.3)	☐	☐	☐	39 USE SHOP LUBE & SEAL SYSTEM	☐	☐	☐	40 USE JOB LUBE & SEAL SYSTEM (7.3.4.9)	☐	☐	☐	41 USE SHOP VIBRATION PROBES, ETC.	☐	☐	☐	42 USE JOB VIB. & AXIAL DISP. PROBES	☐	☐	☐	43 USE JOB SEISMIC TRANSDUCERS	☐	☐	☐	44 USE JOB MONITORING EQUIPMENT	☐	☐	☐	45 PRESSURE COMP. TO FULL OPER. PRESSURE	☐	☐	☐	46 DISASSEMBLE-REASSEMBLE COMP.	☐	☐	☐	47 AFTER TEST (7.3.4.10)	☐	☐	☐	48 SOUND-LEVEL TEST (7.3.4.8)	☐	☐	☐	49 TANDEM TEST (7.3.4.5)	☐	☐	☐	50 AUX.-EQUIPMENT TEST (7.3.4.9)	☐	☐	☐	51 FULL-LOAD TEST (7.3.4.11)	☐	☐	☐	52 RESIDUAL UNBALANCE CHECK (5.7.3.5)	☐	☐	☐	
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