

**CENTRIFUGAL PUMP  
DATA SHEET  
SI UNITS**

PAGE 1 OF 5

JOB NO. CCC ITEM NO. HHH  
 PURCH. ORDER NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 INQUIRY NO. EEE BY FFF  
 REVISION GGG DATE \_\_\_\_\_

1	APPLICABLE TO: <input checked="" type="radio"/> PROPOSAL <input type="radio"/> PURCHASE <input checked="" type="checkbox"/> AS BUILT	
2	FOR <u>AAA</u>	UNIT _____
3	SITE _____	SERVICE <u>III</u>
4	NO. REQ. <u>1+1</u> PUMP SIZE _____	TYPE <u>HORIZONTAL</u> NO. OF STAGES _____
5	MANUFACTURER _____	MODEL _____ SERIAL NO. _____
6	NOTE: <input type="checkbox"/> INDICATES INFORMATION COMPLETED BY PURCHASER <input type="checkbox"/> BY MANUFACTURER <input checked="" type="checkbox"/> BY MANUFACTURER OR PURCHASER	
7	<b>● GENERAL ( 3.1.1 )</b>	
8	PUMPS TO OPERATE IN PARALLEL WITH <u>NA</u>	NO. MOTOR DRIVEN <u>1+1</u> NO. TURBINE DRIVEN <u>NA</u>
9	GEAR ITEM NO. <u>NA</u>	PUMP ITEM NO. <u>NA</u> TURBINE ITEM NO. <u>NA</u>
10	GEAR PROVIDED BY <u>NA</u>	MOTOR PROVIDED BY <u>PURCHASER</u> TURBINE PROVIDED BY <u>NA</u>
11	GEAR MOUNTED BY <u>NA</u>	MOTOR MOUNTED BY <u>VENDOR</u> TURBINE MOUNTED BY <u>NA</u>
12	GEAR DATA SHEET NO. <u>NA</u>	MOTOR DATA SHEET NO. <u>NA</u> TURBINE DATA SHEET NO. <u>NA</u>
13	<b>● OPERATING CONDITIONS</b>	
14	● CAPACITY, NORMAL <u>100</u> (m <sup>3</sup> /h) RATED <u>110</u> (m <sup>3</sup> /h) OTHER <u>Minimum: 60.00</u>	
15	● SUCTION PRESSURE MAX / RATED <u>7.23</u> / <u>5.10</u> (bara)	● DISCHARGE PRESSURE <u>13.83</u> (bara)
16	● DIFFERENTIAL PRESSURE <u>8.73</u> (bar)	● DIFFERENTIAL HEAD <u>104.6</u> (m) NPSHA <u>3.62</u> (m)
17	<input type="checkbox"/> PROCESS VARIATIONS _____ (3.1.2)	<input type="checkbox"/> STARTING CONDITIONS _____ (3.1.3)
18	SERVICE: <input checked="" type="radio"/> CONTINUOUS <input type="radio"/> INTERMITTENT (START/DAY)	
19	<input type="checkbox"/> PARALLEL OPERATION REQ'D (2.1.11)	
20	<b>● SITE AND UTILITY DATA</b>	
21	LOCATION: (2.1.29)	
22	<input type="checkbox"/> INDOOR <input type="checkbox"/> HEATED <input type="checkbox"/> UNDER ROOF	<input checked="" type="radio"/> OUTDOOR <input checked="" type="radio"/> UNHEATED <input type="checkbox"/> PARTIAL SIDES
23	<input checked="" type="radio"/> GRADE <input type="checkbox"/> MEZZANINE	● ELECTRICAL AREA CLASSIFICATION ( 2.1.22 / 3.1.5 )
24	CL _____ GR _____ DIV _____	<input type="checkbox"/> WINTERIZATION REQ'D <input checked="" type="radio"/> TROPICALIZATION REQ'D
25	SITE DATA (2.1.29)	
26	● ALTITUDE _____ (m) BAROMETER _____ (bara)	● RANGE OF AMBIENT TEMPS: MIN/MAX _____ / _____ (°C)
27	● RELATIVE HUMIDITY: MAX/MIN _____ / _____ (%)	UNUSUAL CONDITIONS (2.1.23) <input checked="" type="radio"/> DUST <input type="radio"/> FUMES
28	<input type="checkbox"/> OTHER	
29	● UTILITY CONDITIONS:	
30	STEAM: DRIVERS HEATING	CONTROL SHUTDOWN
31	MIN _____ (bar) _____ (°C)	MIN _____ (bar) _____ (°C)
32	MAX _____ (bar) _____ (°C)	MAX <u>3</u> (bar) <u>150</u> (°C)
33	ELECTRICITY: DRIVERS HEATING	CONTROL SHUTDOWN
34	VOLTAGE _____	HERTZ _____
35	PHASE _____	COOLING WATER: (2.1.17)
36	TEMP. INLET _____ (°C)	MAX RETURN _____ (°C)
37	PRESS NORMAL _____ (bar)	DESIGN _____ (bar)
38	MIN RETURN _____ (bar)	MAX ALLOW DP _____ (bar)
39	<b>● SITE AND UTILITY DATA ( CONT. )</b>	
40	WATER SOURCE _____	
41	CHLORIDE CONCENTRATION (PPM) _____ (3.5.2.6)	INSTRUMENT AIR: MAX / MIN PRESS _____ / _____ (bar)
42	<b>● LIQUID</b>	
43	● TYPE / NAME OF LIQUID <u>LLL</u>	
44	● PUMPING TEMPERATURE: NORMAL <u>40.0</u> (°C) MAX _____ (°C) MIN _____ (°C)	
45	● VAPOR PRESSURE <u>4.800</u> (bara) @ <u>40.0</u> (°C)	● RELATIVE DENSITY (SPECIFIC GRAVITY): NORMAL <u>0.86</u> MAX _____ MIN _____
46	● SPECIFIC HEAT, Cp <u>NA</u> (kJ/kg °C)	● VISCOSITY <u>1.00</u> (cP) @ <u>40.0</u> (°C)
47	● MAX VISCOSITY <u>NA</u> (cP)	● CORROSIVE/EROSIVE AGENT <u>NA</u> (2.11.1.8)
48	● CHLORIDE CONCENTRATION (PPM) <u>NA</u> (3.5.2.6)	● H <sub>2</sub> S CONCENTRATION (PPM) <u>NA</u> (2.11.1.11)
49	LIQUID (2.1.3) <input checked="" type="radio"/> HAZARDOUS <input checked="" type="radio"/> FLAMMABLE	<input type="checkbox"/> OTHER
50	<b>PERFORMANCE</b>	
51	PROPOSAL CURVE NO. _____ <input type="checkbox"/> RPM _____	<input type="checkbox"/> IMPELLER DIA RATED _____ MAX _____ MIN _____ (mm)
	<input type="checkbox"/> RATED POWER _____ (BHP) EFFICIENCY _____ (%)	<input type="checkbox"/> MINIMUM CONTINUOUS FLOW: THERMAL _____ (m <sup>3</sup> /h) STABLE _____ (m <sup>3</sup> /h)
	<input type="checkbox"/> PREFERRED OPERATING REGION _____ TO _____ (m <sup>3</sup> /h)	<input type="checkbox"/> ALLOWABLE OPERATING REGION _____ TO _____ (m <sup>3</sup> /h)
	<input type="checkbox"/> MAX HEAD @ RATED IMPELLER _____ (m)	<input type="checkbox"/> MAX POWER @ RATED IMPELLER _____ (KW)
	<input type="checkbox"/> NPSH REQUIRED AT RATED CAP _____ (m) (2.1.8)	<input type="checkbox"/> SUCTION SPECIFIC SPEED _____ (2.1.9)
	● MAX SOUND PRESS. LEVEL REQ'D <u>85 Dba at 1 m</u> dBA@1m	<input type="checkbox"/> EST MAX SOUND PRESS. LEVEL _____ (dBA) (2.1.14)
	REMARKS: _____	
	Note1: Pump shut-off Pressure: <u>17.14 barg</u>	
	Note 2: NPSHR value is about 60 cm less than NPSHA	

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CONSTRUCTION	CONSTRUCTION (CONT)																																													
<p>1</p> <p>2 APPLICABLE STANDARD:</p> <p>3 ● AP1610 8TH EDITION</p> <p>4 ○ OTHER _____</p> <p>5 PUMP TYPE: (1.1.2)</p> <p>6 <input checked="" type="checkbox"/> OH2   <input checked="" type="checkbox"/> BB1   <input checked="" type="checkbox"/> VS1   <input checked="" type="checkbox"/> VS6</p> <p>7 <input checked="" type="checkbox"/> OH3   <input checked="" type="checkbox"/> BB2   <input checked="" type="checkbox"/> VS2   <input checked="" type="checkbox"/> VS7</p> <p>8 <input checked="" type="checkbox"/> OH6   <input checked="" type="checkbox"/> BB3   <input checked="" type="checkbox"/> VS3   <input checked="" type="checkbox"/> OTHER</p> <p>9 <input checked="" type="checkbox"/> BB4   <input checked="" type="checkbox"/> VS4</p> <p>10 <input checked="" type="checkbox"/> BB5   <input checked="" type="checkbox"/> VS5</p> <p>11 <input type="checkbox"/> NOZZLE CONNECTIONS:</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>SIZE</th> <th>RATING</th> <th>FACING</th> <th>POSITION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>12</p> <p>13 SUCTION</p> <p>14 DISCHARGE</p> <p>15 BALANCE DRUM</p> <p>16</p> <p>17 PRESSURE CASING CONNECTIONS: (2.3.3)</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>NO</th> <th>SIZE (NPS)</th> <th>TYPE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>18 (bara)</p> <p>19 <input type="checkbox"/> DRAIN (bara)</p> <p>20 <input type="checkbox"/> VENT</p> <p>21 <input type="checkbox"/> PRESSURE GAUGE</p> <p>22 <input type="checkbox"/> TEMP. GAUGE</p> <p>23 <input type="checkbox"/> WARM-UP</p> <p>24 <input type="checkbox"/> BALANCE/ LEAK-OFF</p> <p>25</p> <p>26 ○ CYLINDRICAL THREADS REQUIRED (2.3.3)</p> <p>27 CASING MOUNTING: (SEE SEPARATE SHEET FOR VERTICALS)</p> <p>28 <input type="checkbox"/> CENTERLINE   <input type="checkbox"/> NEAR CENTERLINE</p> <p>29 <input type="checkbox"/> FOOT   <input type="checkbox"/> SEPARATE MOUNTING PLATE</p> <p>30 <input type="checkbox"/> IN-LINE</p> <p>31</p> <p>32 <input type="checkbox"/> AXIAL   <input type="checkbox"/> RADIAL</p> <p>33 CASING TYPE:</p> <p>34 <input type="checkbox"/> SINGLE VOLUTE   <input type="checkbox"/> MULTIPLE VOLUTE   <input type="checkbox"/> DIFFUSER</p> <p>35 <input checked="" type="checkbox"/> OVERHUNG   <input type="checkbox"/> BETWEEN BEARINGS   <input checked="" type="checkbox"/> BARREL</p> <p>36 CASE PRESSURE RATING:</p> <p>37 <input type="checkbox"/> MAX ALLOWABLE WORKING PRESSURE _____ (bar)</p> <p>38 @ _____ (°C)</p> <p>39 <input type="checkbox"/> HYDROTEST PRESSURE _____ (bar)</p> <p>40 ○ SUCTION PRESS. REGIONS MUST BE DESIGNED FOR MAWP (2.2.4)</p> <p>41 ROTATION: (VIEWED FROM COUPLING END)</p> <p>42 <input type="checkbox"/> CW   <input type="checkbox"/> CCW</p> <p>43 ○ IMPELLERS INDIVIDUALLY SECURED (5.2.2.2)</p> <p>44 REMARKS: _____</p> <p>45 _____</p> <p>46 _____</p> <p>47 ○ BOLT OH3 PUMP TO PAD/FOUNDATION (5.1.2.4)</p> <p>48 SHAFT:</p> <p>49 <input type="checkbox"/> SHAFT DIAMETER AT COUPLING _____ (mm)</p>	SIZE	RATING	FACING	POSITION																	NO	SIZE (NPS)	TYPE																			<p><input type="checkbox"/> SHAFT DIAMETER BETWEEN BEARINGS _____ (mm)</p> <p><input type="checkbox"/> SPAN BETWEEN BEARING CENTERS _____ (mm)</p> <p><input type="checkbox"/> SPAN BETWEEN BEARING &amp; IMPELLER _____ (mm)</p> <p>REMARKS _____</p> <p>_____</p> <p>_____</p> <p>COUPLINGS (3.2.2) DRIVER - PUMP</p> <p><input type="checkbox"/> MAKE _____</p> <p><input checked="" type="checkbox"/> MODEL _____</p> <p><input type="checkbox"/> CPLG RATING (KW/100 RPM) _____</p> <p><input type="checkbox"/> LUBRICATION _____</p> <p><input checked="" type="checkbox"/> LIMITED END FLOAT REQUIRED _____</p> <p><input checked="" type="checkbox"/> SPACER LENGTH _____ (mm)</p> <p><input checked="" type="checkbox"/> SERVICE FACTOR _____</p> <p>DRIVER HALF COUPLING MOUNTED BY:</p> <p><input type="checkbox"/> PUMP MFR.   <input type="checkbox"/> DRIVER MFR.   <input type="checkbox"/> PURCHASER</p> <p><input type="checkbox"/> COUPLING PER API 671 (5.2.7)</p> <p>BASEPLATES:</p> <p><input type="checkbox"/> API BASEPLATE NUMBER _____ (APPENDIX M)</p> <p><input type="checkbox"/> NON-GROUT (CONSTRUCTION: (3. 3.13/5. 3. 7.3. 5))</p> <p>REMARKS: _____</p> <p>_____</p> <p>_____</p> <tr style="background-color: yellow;"> <th colspan="2" style="text-align: center;">MATERIAL</th> </tr> <p><input type="checkbox"/> APPENDIX H CLASS _____ (2.11.1.1)</p> <p>● MIN DESIGN METAL TEMP (2.11.4.5) <u>65.0</u> (°C)</p> <p><input type="checkbox"/> BARREL/CASE _____ IMPELLER _____</p> <p><input type="checkbox"/> CASE/IMPELLER WEAR RINGS _____</p> <p><input type="checkbox"/> SHAFT _____</p> <p><input type="checkbox"/> DIFFUSERS _____</p> <p><input type="checkbox"/> COUPLING SPACER/HUBS _____</p> <p><input type="checkbox"/> COUPLING DIAPHRAGMS (DISKS) _____</p> <p>REMARKS: _____</p> <p>_____</p> <p>_____</p> <tr style="background-color: yellow;"> <th colspan="2" style="text-align: center;">BEARINGS AND LUBRICATION</th> </tr> <p>BEARING (TYPE/NUMBER):</p> <p><input type="checkbox"/> RADIAL _____ / _____</p> <p><input type="checkbox"/> THRUST _____ / _____</p> <p><input type="checkbox"/> REVIEW AND APPROVE THRUST BEARING SIZE (5.2.5.2.4)</p> <p>LUBRICATION: (2.10)</p> <p><input checked="" type="checkbox"/> GREASE   <input checked="" type="checkbox"/> FLOOD   <input checked="" type="checkbox"/> RING OIL</p> <p><input checked="" type="checkbox"/> FLINGER   <input type="checkbox"/> PURGE OIL MIST   <input type="checkbox"/> PURE OIL MIST</p> <p><input type="checkbox"/> CONSTANT LEVEL OILER PREFERENCE (SEE REMARKS) (2.9.2.2)</p> <p><input type="checkbox"/> PRESSURE LUBE SYS (5.2.6)   <input type="checkbox"/> API-610   <input type="checkbox"/> API-614</p> <p><input checked="" type="checkbox"/> OIL VISC. ISO GRADE (5.2.6.5) _____</p>	MATERIAL		BEARINGS AND LUBRICATION	
SIZE	RATING	FACING	POSITION																																											
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BEARINGS AND LUBRICATION (CONT)	MECHANICAL SEAL OR PACKING (CONT)
<p>2 <input checked="" type="checkbox"/> OIL HEATER REQ'D    <input type="checkbox"/> ELECTRIC    <input type="checkbox"/> STEAM (2.9.2.9/5.2.6.3)</p> <p>3 <input type="checkbox"/> OIL PRESS TO BE GREATER THAN COOLANT PRESS (5.2.6.2.b)</p> <p>4 REMARKS _____</p> <p>5 _____</p> <p>6 _____</p>	<p>● VAPOR PRESSURE <u>4.8</u> (BAR abs) @ <u>40</u> (°C)</p> <p>● HAZARDOUS    ● FLAMMABLE    <input type="checkbox"/> OTHER _____</p> <p><input type="checkbox"/> FLOW RATE MAX/MIN _____ / _____ (m³/h)</p> <p><input type="checkbox"/> PRESSURE REQUIRED MAX/MIN _____ / _____ (BAR)</p> <p><input checked="" type="checkbox"/> TEMPERATURE REQUIRED MAX/MIN _____ / _____ (°C)</p>
MECHANICAL SEAL OR PACKING	
<p>8 SEAL DATA: (2.7.2)</p> <p>9 ● SEE ATTACHED API-682 DATA SHEET    <b>Mechanical seal acc. To API-682</b></p> <p>10 <input type="checkbox"/> NON-API 682 SEAL (2.7.2)</p> <p>11 <input type="checkbox"/> APPENDIX H SEAL CODE _____ (2.11.1.1)</p> <p>12 <input checked="" type="checkbox"/> SEAL MANUFACTURER _____</p> <p>13 <input checked="" type="checkbox"/> SIZE AND TYPE _____ / _____</p> <p>14 <input checked="" type="checkbox"/> MANUFACTURER CODE _____</p> <p>15 SEAL CHAMBER DATA: (2.1.6/2.1.7)</p> <p>16 <input checked="" type="checkbox"/> TEMPERATURE _____ (°C)</p> <p>17 <input checked="" type="checkbox"/> PRESSURE _____ (BAR)</p> <p>18 <input checked="" type="checkbox"/> FLOW _____ (barA)</p> <p>19 <input type="checkbox"/> SEAL CHAMBER SIZE (TABLE 2.3) _____</p> <p>20 <input type="checkbox"/> TOTAL LENGTH _____ (mm)    <input type="checkbox"/> CLEAR LENGTH _____ (mm)</p> <p>21 SEAL CONSTRUCTION:</p> <p>22 <input type="checkbox"/> SLEEVE MATERIAL _____</p> <p>23 <input type="checkbox"/> GLAND MATERIAL _____</p> <p>24 <input type="checkbox"/> AUX SEAL DEVICE (2.7.3.20) _____</p> <p>25 <input checked="" type="checkbox"/> JACKET REQUIRED (2.7.3.17) _____</p> <p>26 GLAND TAPS: (2.7.3.14)</p> <p>27 <input checked="" type="checkbox"/> FLUSH (F)    <input checked="" type="checkbox"/> DRAIN (D)    <input checked="" type="checkbox"/> BARRIER/BUFFER (B)</p> <p>28 <input checked="" type="checkbox"/> QUENCH (Q)    <input checked="" type="checkbox"/> COOLING (C)    <input checked="" type="checkbox"/> LUBRICATION (G)</p> <p>29 <input checked="" type="checkbox"/> HEATING (H)    <input checked="" type="checkbox"/> LEAKAGE    <input checked="" type="checkbox"/> PUMPED FLUID (P)</p> <p>30 <input checked="" type="checkbox"/> BALANCE FLUID (E)    <input checked="" type="checkbox"/> EXTERNAL FLUID INJECTION (X)</p> <p>31 <input type="checkbox"/></p> <p>32 NOTE: IF FLUSH LIQUID IS PUMPAGE LIQUID (AS IN FLUSH PIPING</p> <p>33 PLANS 11 TO 41), FOLLOWING FLUSH LIQUID DATA IS NOT REQ'D.</p> <p>34 <input type="checkbox"/> SUPPLY TEMPERATURE MAX/MIN _____ / _____ (°C)</p> <p>35 <input type="checkbox"/> RELATIVE DENSITY (SPECIFIC GRAVITY) _____ @ _____ (°C)</p> <p>36 <input type="checkbox"/> NAME OF FLUID _____</p> <p>37 <input type="checkbox"/> SPECIFIC HEAT, C<sub>p</sub> _____ (KJ/kg °C)</p> <p>38 <input type="checkbox"/> VAPOR PRESSURE _____ (BAR abs) @ _____ (°C)</p> <p>39 <input type="checkbox"/> HAZARDOUS    <input type="checkbox"/> FLAMMABLE    <input type="checkbox"/> OTHER _____</p> <p>40 <input type="checkbox"/> FLOW RATE MAX/MIN _____ / _____ (m³/h)</p> <p>41 <input type="checkbox"/> PRESSURE REQUIRED MAX/MIN _____ / _____ (BAR)</p> <p>42 <input type="checkbox"/> TEMPERATURE REQUIRED MAX/MIN _____ / _____ (°C)</p> <p>43 BARRIER/BUFFER FLUID (2.7. 3. 21):</p> <p>44 <input type="checkbox"/> SUPPLY TEMPERATURE MAX/MIN _____ / _____ (°C)</p> <p>45 ● RELATIVE DENSITY (SPECIFIC GRAVITY) _____ @ _____ (°C)</p> <p>46 <input type="checkbox"/> NAME OF FLUID _____</p> <p>47 _____</p>	<p>QUENCH FLUID:</p> <p><input type="checkbox"/> NAME OF FLUID _____</p> <p><input type="checkbox"/> FLOW RATE _____ (m³/h)</p> <p>SEAL FLUSH PIPING: (2.7.3.19 AND APPENDIX D)</p> <p><input type="checkbox"/> SEAL FLUSH PIPING PLAN _____</p> <p><input checked="" type="checkbox"/> TUBING    <input checked="" type="checkbox"/> CARBON STEEL</p> <p><input checked="" type="checkbox"/> PIPE    <input checked="" type="checkbox"/> STAINLESS STEEL</p> <p><input type="checkbox"/> AUXILIARY FLUSH PLAN _____</p> <p><input checked="" type="checkbox"/> TUBING    <input checked="" type="checkbox"/> CARBON STEEL</p> <p><input checked="" type="checkbox"/> PIPE    <input checked="" type="checkbox"/> STAINLESS STEEL</p> <p><input type="checkbox"/> PIPING ASSEMBLY: (3.5.2.10.1)</p> <p><input checked="" type="checkbox"/> THREADED    <input checked="" type="checkbox"/> UNIONS    <input checked="" type="checkbox"/> SOCKET WELDED</p> <p><input checked="" type="checkbox"/> FLANGED    <input checked="" type="checkbox"/> TUBE TYPE FITTINGS</p> <p><input checked="" type="checkbox"/> PRESSURE SWITCH (PLAN 52/53) TYPE _____</p> <p><input type="checkbox"/> PRESSURE GAUGE (PLAN 52/53)</p> <p><input checked="" type="checkbox"/> LEVEL SWITCH (PLAN 52/53) TYPE _____</p> <p><input type="checkbox"/> LEVEL GAUGE (PLAN 52/53)</p> <p><input type="checkbox"/> TEMP INDICATOR (PLANS 21,22 ,23, 32, 41)</p> <p><input type="checkbox"/> HEAT EXCHANGER (PLAN 52/53)</p> <p>REMARKS _____</p> <p>_____</p> <p>PACKING DATA: (APPENDIX C)</p> <p>MANUFACTURER _____</p> <p>TYPE _____</p> <p>SIZE _____ NO. OF RINGS _____</p> <p><input type="checkbox"/> PACKING INJECTION REQUIRED</p> <p><input type="checkbox"/> FLOW _____ (m³/h) @ _____ (°C)</p> <p><input type="checkbox"/> LANTERN RING _____</p>
STEAM AND COOLING WATER PIPING	
<p>43 BARRIER/BUFFER FLUID (2.7. 3. 21):</p> <p>44 <input type="checkbox"/> SUPPLY TEMPERATURE MAX/MIN _____ / _____ (°C)</p> <p>45 ● RELATIVE DENSITY (SPECIFIC GRAVITY) _____ @ _____ (°C)</p> <p>46 <input type="checkbox"/> NAME OF FLUID _____</p> <p>47 _____</p>	<p><input checked="" type="checkbox"/> COOLING WATER PIPING PLAN _____ (3.5.4.1)</p> <p><input type="checkbox"/> COOLING WATER REQUIREMENTS</p> <p>SEAL JACKET/BRG HSG _____ (m³/h) @ _____ (BAR)</p> <p>SEAL HEAT EXCHANGER _____ (m³/h) @ _____ (BAR)</p> <p>QUENCH _____ (m³/h) @ _____ (BAR)</p> <p>TOTAL COOLING WATER _____ (m³/h)</p> <p><input type="checkbox"/> STEAM PIPING:    <input type="checkbox"/> TUBING    <input type="checkbox"/> PIPE</p> <p>REMARKS _____</p> <p>_____</p> <p>_____</p>



