Respond to Panel 108 Alarms at 271-AP

Panel ANN-108 Alarm Index

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Description</th>
<th>Color</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supernate Pmp WT-P-008 Shutdown (WT-SDA-308) White</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Annulus Leak Detected Tank 108 (WSTA-LDA-128) Yellow</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Figure 1- 241-AP-271 Instrument Building Alarm Panel ANN-108</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

RECORDS

No records are generated during the performance of this procedure.
Facility: 241-AP-271 INSTRUMENT BUILDING

Panel: ANN-108               Alarm #:1

Source: AP08A-WT-P-008        Setpoint: N/A

Alarm Class: Equipment Status

Alarm Description: Supernate pump WT-P-008 shut down

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, "expected" alarms generated by approved work activities or procedures.
- This alarm is expected when SN PUMP AP08A-WT-P-008 is shut down with the motor control center breaker shut.

Immediate Actions:

[1] CHECK that PUMP AP08A-WT-P-008 (pump P-108-1) status is OFF (STOP pushbutton not illuminated, START pushbutton illuminated).

[2] CHECK that pump amperage is "zero" per WT-II-308A on AP271-EDS-MCC-001, panel E2 (red light emitting diode readout).


Possible Causes:

1. Pump has automatically tripped from one of the following:
   - Motor overload
   - HI or LOW motor current
   - Blown motor control center breaker control circuit fuse.

2. Mechanical failure of pump.

3. Instrument malfunction.

References:

Drawings: H-14-020803, H-14-030003, sht 1
Documents: None
Facility: 241-AP-271 Instrument Building

Panel: ANN-108  Alarm #: 9

Source: AP108-WSTA-LDT-151  Setpoint: 0.25 inches ± 0.02 inches above the annulus bottom
AP108-WSTA-LDT-152
AP108-WSTA-LDT-153

Alarm Class: Environmental
Alarm Description: Liquid detected by 241-AP-108 annulus leak detectors

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, "expected" alarms generated by approved work activities or procedures.

Immediate Actions:

[2] IF a transfer is in progress into or out of 241-AP-108, REQUEST MBD Operator shut down transfer.
[3] CHECK local displays of Annulus AP108-WSTA-LDT-151, AP108-WSTA-LDT-152, and AP108-WSTA-LDT-153, for the following:
   • ENRAFs are not in alarm (HA indication will be in display for alarm condition).
   • Displacers are less than or equal to 0.25 inches from the bottom of the annulus tank.
   [5.1] IF annulus leak detectors show increased level in the annulus.
      [5.1.1] Shift Manager EVALUATE TF-AOP-005 entry criteria.
      [5.1.2] Shift Manager NOTIFY maintenance to perform leak detection verification per 6-LDD-485.

Supplemental Actions:

[6] Shift Manager NOTIFY Environmental On-Call per TF-REC-001

(Continued On Next Page)
Facility: 241-AP-271 Instrument Building

Panel: ANN-108      Alarm #: 9

Source: AP108-WSTA-LDT-151  Setpoint: 0.25 inches ± 0.02 inches above the annulus bottom
AP108-WSTA-LDT-152
AP108-WSTA-LDT-153

Possible Causes:
1. Waste leaking from primary tank to annulus.
2. Condensate, rainwater, snowmelt, or other water has entered the annulus from outside.
3. Instrument malfunction.
4. ENRAF performed a reset due to loss of power.
5. Time delay relay fails.

References:
Drawings: H-14-020503, H-2-90476 Sheet 3
Documents: RPP-16922, Environmental Specification Requirements
OSD-T-151-00031, Operating Specifications for Tank Farm Leak Detection and Single Shell Tank Intrusion Detection, Table 3-1
HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements
TF-AOP-005, Response to Unexpected Tank Temperature or Flammable Gas Increase or Level Change
6-LDD-485, ENRAF Series 854 Annulus Leak Detection Gauges Calibration and Maintenance
Respond to Panel 108 Alarms at 271-AP

Figure 1- 241-AP-271 Instrument Building Alarm Panel ANN-108

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>W</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>7</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>12</td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

1. SUPERNATE PMP WT-P-008 SHUTDOWN (WT-SDA-308)
2. LOW AIR FLOW ANNULUS CAM TANK 108 (WSTA-FAL-108)
3. ANNULUS LEAK DETECTED TANK 108 (WSTA-LDA-128)
4. CAM ALARM TANK 108 ANNULUS (WSTA-RAH-108)
5. CAM FAILURE TANK 108 ANNULUS (WSTA-RXA-108)