Respond to Panel 106 Alarms at 271-AP

Panel ANN-106 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-006 Shutdown (WT SDA 306)</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Annulus Leak Detected Tank 106 (WSTA-LDA-126)</td>
<td>Yellow</td>
<td>3</td>
</tr>
</tbody>
</table>

No records are generated during the performance of this procedure.

RECORDS
Respond to Panel 106 Alarms at 271-AP

Facility: 241-AP-271 INSTRUMENT BUILDING

Panel: ANN-106  Alarm #: 1

Source: AP06A-WT-P-006  Setpoint: N/A

Alarm Class: Equipment Status
Alarm Description: Supernate pump WT-P-006 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 AP06A-WT-P-006 is shut down with the motor control center breaker shut.

Immediate Actions:

[1] CHECK that PUMP AP06A-WT-P-006 (pump P-106-1) status is OFF (STOP pushbutton not illuminated, START pushbutton illuminated).

[2] CHECK that pump amperage is "zero" per WT-TI-306A on AP271-EDS-MCC-001; panel D3 (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
Respond to Panel 106 Alarms at 271-AP

**Facility:** 241-AP-271 Instrument Building

**Panel:** ANN-106  
**Alarm #:** 9

**Source:** AP106-WSTA-LDT-151  
**Setpoint:** 0.25 inches ± 0.02 inches above the annulus bottom  
AP106-WSTA-LDT-152  
AP106-WSTA-LDT-153

**Alarm Class:** Environmental

**Alarm Description:** Liquid detected by 241-AP-106 annulus ENRAF 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:**

[1] **ACKNOWLEDGE** alarm.

[2] **IF** a transfer is in progress into or out of 241-AP-102, **REQUEST** MBD Operator shut down transfer.

[3] **CHECK** local displays of Annulus AP106-WSTA-LDT-151, AP106-WSTA-LDT-152, AP106-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] **NOTIFY** Shift Manager of alarm, actions and findings.

[5.1] **IF** annulus leak detectors show an increased level in the annulus, **PERFORM** the following:

[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.

(Continued On Next Page)
Respond to Panel 106 Alarms at 271-AP

Facility: 241-AP-271 Instrument Building

Panel: ANN-106    Alarm #: 9

Source: AP106-WSTA-LDT-151    Setpoint: 0.25 inches ± 0.02 inches above the annulus bottom
AP106-WSTA-LDT-152
AP106-WSTA-LDT-153

Supplemental Actions:


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 106 Alarms at 271-AP

Figure 1: 241-AP-271 Instrument Building Alarm Panel ANN-106

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<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>4</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>Y</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12</td>
<td>13</td>
<td>W</td>
<td>R</td>
<td>15</td>
</tr>
</tbody>
</table>

- SUPERNATE PMP
  - WT-P-006
  - SHUTDOWN
    - WT-SDA-306

- ANNULUS LEAK DETECTED
  - TANK 106
    - WSTA-LDA-126