Respond to Panel 102 Alarms at 271-AP

Panel ANN-102 Alarm Index

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<td>1</td>
<td>Supernate Pmp WT-P-002 Shutdown (WT SDA 302)</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Annulus Leak Detected Tank 102 (WSTA-LDA-122)</td>
<td>Yellow</td>
<td>3</td>
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Figure 1: 241-AP-271 Instrument Building Alarm Panel ANN-102

RECORDS

No records are generated during the performance of this procedure.
Respond to Panel 102 Alarms at 271-AP

Facility: 241-AP-271 Instrument Building

Panel: ANN-102  Alarm #:1

Source: AP02D-WT-P-002  Setpoint: N/A

Alarm Class: Equipment Status
Alarm Description: Supernate pump WT-P-002 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 AP02D-WT-P-002 is shut down with the motor control center breaker shut.

Immediate Actions:

[1] ENSURE that PUMP AP02D-WT-P-002 (pump P-102-1) status is OFF (STOP pushbutton not illuminated, START pushbutton illuminated).


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
Facility: 241-AP-271 Instrument Building

Panel: ANN-102  
Alarm #: 9

Source: AP102-WSTA-LDT-151  
AP102-WSTA-LDT-152  
AP102-WSTA-LDT-153  

Setpoint: 0.25 inches ± 0.02 inches above the annulus bottom

Alarm Class: Environmental

Alarm Description: Liquid detected by 241-AP-102 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:


[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 ENRAFs AP102-WSTA-LDT-151, AP102-WSTA-LDT-152, AP102-WSTA-LDT-153 for the following:
   • ENRAFs are not in alarm. (HA indication will be in display for an 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 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.

Supplemental Actions:


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

Panel: ANN-102  Alarm #: 9

Source: AP102-WSTA-LDT-151  Setpoint: 0.25 inches ± 0.02 inches above the annulus bottom
AP102-WSTA-LDT-152
AP102-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
Figure 1: 241-AP-271 Instrument Building Alarm Panel ANN-102

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<td>6</td>
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- **SUPERNATE PMP**
  - WT-P-002
  - SHUTDOWN (WT-SDA-302)

- **ANNULUS LEAK DETECTED**
  - TANK 102 (WSTA-LDA-122)