Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Tank Farm Alarm Response Procedure

AY/AZ Farm

USQ # TF-17-1016-D Rev. 0

CHANGE HISTORY (≤ LAST 5 REV-MODS)

<table>
<thead>
<tr>
<th>Rev-Mod</th>
<th>Release Date</th>
<th>Justification</th>
<th>Summary of Changes</th>
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<tr>
<td>I-1</td>
<td>07/31/2017</td>
<td>Change to TFC-PLN-167</td>
<td>Updated White Label program statement to address changes to TFC-PLN-167.</td>
</tr>
<tr>
<td>I-0</td>
<td>09/01/2016</td>
<td>Periodic Review.</td>
<td>Editorial changes made to meet guidelines of TFC-OPS-OPER-STD-01.</td>
</tr>
<tr>
<td>H-1</td>
<td>08/31/2016</td>
<td>Request by electrical group</td>
<td>Added White Label program statement.</td>
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<tr>
<td>H-0</td>
<td>10/08/2014</td>
<td>Periodic review comment incorporation.</td>
<td>Updated title to TF-AOP-011 throughout. Added new Note and Possible Cause step to AZ31COND-LDA-130.</td>
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<tr>
<td>G-3</td>
<td>09/15/2014</td>
<td>Engineering request to address changes to MCS per TFC-ENG-SCR-55647.</td>
<td>MCS update modified the screen names. Changed alarm color to RED. Alarms RAX/RAH-AZK1-1, RAX/RAH-702K3-1, RAX/RAH-AZK19-1 were deleted.</td>
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Respond to Monitor Control System Graphic #03 Leak Detect Alarms

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<td>Red</td>
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**RECORDS**

No records are generated during the performance of this procedure.
1.0 PURPOSE

1.1 The purpose of this procedure is to provide guidance to Operators for responding to alarms associated with the AY/AZ Ventilation System on Monitoring Control System (MCS) graphic screen 03.

2.0 PRECAUTIONS AND LIMITATIONS

2.1 Personnel Safety

2.1.1 Non-electrical worker accessing electrical enclosures must ensure the following:

- The enclosure must have a white label indicating that it has been evaluated.
- The work activity within the enclosure does not involve:
  - Reaching around or moving electrical equipment
  - Contacting electrical connectors/connections
  - By-passing protective shielding/barriers

2.1.1.1 Stop and notify management if these conditions cannot be met, or if discrepancies exist (e.g. conflicting or missing labels, missing or damaged protective barriers).

3.0 OPERATION

NOTE - Leak detector alarms activated on MCS graphic screen 03 generate an alarm to TMACS.

2.1 OPERATE MCS in accordance with procedure TO-060-356, Perform 702-AZ Exhauster Monitor and Control Operations.
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AY-1102-1

Source: LDE-AY-1102-1  Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: AY Farm Primary Vent Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:

[1] CONFIRM light LDY-AY1102-1 is LIT in cabinet CAB-AZK1-2 in the 702AZ stack monitor room.


[3] IF directed by the Shift Manager/OE, PERFORM the following:

[3.1] OPEN Encasement Drain Valve HV-AZ800-1, located outside at the southeast corner of the vent cell.

[3.2] WHEN leak detector clears, CLOSE valve HV-AZ800-1.

Supplemental Actions:


Possible Causes:

1. Leakage from primary ventilation pipe.
2. Loss of power to LDE-AY1102-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020106, Sht. 1
Documents: None
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  
Alarm #: LDA-AZ-2102-1
Source: LDE-AZ2102-1  
Setpoint: N/A

Alarm Class: Environmental Impact  
Alarm Description: AZ Farm Primary Vent Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


[3] IF directed by the Shift Manager/OE, PERFORM the following:
   [3.1] OPEN Encasement Drain Valve HV-AZ801-1, located outside at the northeast corner of the vent cell.
   [3.2] WHEN leak detector alarm clears, CLOSE valve HV-AZ801-1.

Supplemental Actions:


Possible Causes:

1. Leakage from Primary Ventilation Pipe.
2. Loss of Power to LDE-AZ2102-1.
3. External leakage into Encasement Pipe.
4. Equipment Failure.

References:

Drawings: H-14-020107, Sht. 3
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AY-1200-1
Source: LDE-AY1200-1  Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AY101 Primary Vent Outlet Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AY101 primary vent outlet Pipe.
2. Loss of Power to LDE-AY1200-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings:  H-14-020106, Sht. 1
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03

Alarm #: LDA-AY-1202-1

Source: LDE-AY1202-1

Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AY101 Primary Vent Return Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AY101 primary vent return Pipe.
2. Loss of Power to LDE-AAY1202-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020106, Sht. 1
Documents: None
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AY-2200-1
Source: LDE-AY-2200-1  Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: AY102 Primary Vent Outlet Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:

Supplemental Actions:

Possible Causes:
1. Leakage from AY101 primary vent outlet Pipe.
2. Loss of Power to LDE-AY2200-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:
Drawings: H-14-020106, Sht. 2
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AY-2202-1

Source: LDE-AY-2202-1  Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: AY102 Primary Vent Return Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AY102 primary vent return Pipe.
2. Loss of Power to LDE-AY2202-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020106, Sht. 2
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AZ-1200-1

Source: LDE-AZ-1200-1  Setpoint: N/A

Alarm Class: Environmental Impact  Alarm Description: AZ101 Primary Vent Outlet Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AZ101 primary vent outlet pipe.
2. Loss of power to LDE-AZ-1200-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020107, Sht. 1
Documents: None
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  
Alarm #: LDA-AZ-1202-1

Source: LDE-AZ-1202-1  
Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: AZ101 Primary Vent Return Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AZ101 primary vent return pipe.
2. Loss of power to LDE-AZ-1202-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020107, Sht. 1
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AZ-2200-1

Source: LDE-AZ-2200-1  Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AZ102 Primary Vent Outlet Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AZ102 primary vent outlet Pipe.
2. Loss of Power to LDE-AZ2200-1.
3. External leakage into the encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020107, Sht. 2
Documents: None
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AZ-2202-1

Source: LDE-AZ-2202-1  Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AZ102 Primary Vent Return Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Leakage from AZ102 primary vent return Pipe.
2. Loss of Power to LDE-AZ2202-1.
3. External leakage into encasement pipe.
4. Equipment failure.

References:

Drawings: H-14-020107, Sht. 2
Documents: None
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03

Alarm #: LDA-AY-401-1

Source: LDE-AY-401-1

Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AY101 Recirc Building Leak Detected

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

Automatic Actions: None

Immediate Actions:


[3] IF no process leakage is found, ATTEMPT TO RESET LDE-AY401-1 (located inside AY-401 Recirc Module) by pressing the ACKNOWLEDGE and the UPDATE buttons on the leak detector display unit.

Supplemental Actions:


Possible Causes:

1. Leakage from Condenser AY101K4-8-1.
2. Leakage from Moisture Separator AY101K4-1-1.
3. Loss of power to LDE-AY401-1.
4. Rain or snow melt seepage into recirc module.
5. Equipment failure.

References:

Drawings: H-14-020106, Sht. 1
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

**Facility:** AY/AZ Primary Ventilation

**Graphic:** 03  
**Alarm #:** LDA-AY-402-1

**Source:** LDE-AY-402-1  
**Setpoint:** N/A

**Alarm Class:** Environmental Impact

**Alarm Description:** AY102 Recirc Building Leak Detected

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

**Automatic Actions:** None

**Immediate Actions:**


[2] **IF** a visual observation of the facility finds indications of a waste surface pool, **NOTIFY** Shift Manager/OE **AND**

**RECOMMEND** response per TF-AOP-011.

[3] **IF** no process leakage is found, **ATTEMPT TO RESET** LDE-AY402-1 (located inside AY-402 Recirc Module) by pressing the ACKNOWLEDGE and the UPDATE buttons on the leak detector display unit.

**Supplemental Actions:**

[4] **NOTIFY** Shift Manager of actions and findings.

**Possible Causes:**

1. Leakage from Condenser AY102K4-8-1.
2. Leakage from Moisture Separator AY102K4-1-1.
3. Loss of power to LDE-AY402-1.
4. Rain or snow melt seepage into recirc module.
5. Equipment failure.

**References:**

- **Drawings:** H-14-020106, Sht. 2
- **Documents:** TF-AOP-011, Response to Chemical and/or Radiological Events
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  \hspace{1cm} Alarm #: LDA-AZ-401-1

Source: LDE-AZ-401-1  \hspace{1cm} Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: AZ101 Recirc Building Leak Detected

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

Automatic Actions: None

Immediate Actions:

[3] IF no process leakage is found, ATTEMPT TO RESET LDE-AZ401-1 (located inside AZ-401 Recirc Module) by pressing the ACKNOWLEDGE and the UPDATE buttons on the leak detector display unit.

Supplemental Actions:


Possible Causes:

1. Leakage from Condenser AZ101K4-8-1.
2. Leakage from Moisture Separator AZ101K4-1-1.
3. Loss of power to LDE-AZ401-1.
4. Rain or snow melt seepage into recirc module.
5. Equipment failure.

References:

Drawings: H-14-020107, Sht. 1
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AZ-402-1

Source: LDE-AZ-402-1  Setpoint: N/A

Alarm Class: Environmental Impact  Alarm Description: AZ102 Recirc Building Leak Detected

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

Automatic Actions: None

Immediate Actions:


[3] IF no process leakage is found, ATTEMPT TO RESET LDE-AZ402-1 (located inside AZ-402 Recirc Module) by pressing the ACKNOWLEDGE and the UPDATE buttons on the leak detector display unit.

Supplemental Actions:


Possible Causes:

1. Leakage from Condenser AZ102K4-8-1.
2. Leakage from Moisture Separator AZ102K4-1-1.
3. Loss of power to LDE-AZ402-1.
4. Rain or snow melt seepage into recirc module.
5. Equipment failure.

References:

Drawings: H-14-020107, Sht. 2
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-702-1

Source: LDE-702-1  Setpoint: N/A

Alarm Class: Environmental Impact

Alarm Description: Primary Vent Cell Sump Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

2. Encasement Drain leakage from ventilation piping V-AZ2102-M9.
4. Low water pressure when pumping sump.
5. Leak in piping or equipment, i.e., HEME, Condenser, Seal Pot.

References:

Drawings: H-14-020107, Sht. 3
Documents: RPP-11413, Technical Basis for Ventilation System Requirements
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-702-2A

Source: LDE-702-2A  Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: Primary Ventilation Filter Room A Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:


Possible Causes:

1. Condensate leakage from HEPA Filter.
2. Loss of Power to LDE-AZ702-2A.
3. Equipment failure.
4. Fire system leakage.

References:

Drawings: H-14-020107, Sht. 3
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility:  AY/AZ Primary Ventilation

Graphic:  03  Alarm #:  LDA-702-2B

Source:  LDE-702-2B  Setpoint:  N/A

Alarm Class:  Environmental Impact

Alarm Description:  Primary Ventilation Filter Room B Leak Detected

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

Automatic Actions:  None

Immediate Actions:

NOTE - If the alarm is valid, ALARM light should be lit on LDY-AZ702-2B inside the cabinet.


Supplemental Actions:


Possible Causes:

1.  Condensate leakage from HEPA Filter.
2.  Loss of Power to LDE-AZ702-2B.
3.  Equipment failure.
4.  Fire system leakage.

References:

Drawings:  H-14-020107, Sht 3
Documents:  TF-AOP-011, Response to Chemical and/or Radiological Events
Facility: AY/AZ Primary Ventilation

**Graphic:** 03  
**Alarm:** AZ31COND-LDA-130

**Source:** AZ301-COND-LDE-130  
**Setpoint:** N/A

**Alarm Class:** Equipment Status  
**Alarm Description:** AZ301 Secondary Containment Leak Detected

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

- Encasement for transfer line from 301-AZ to AZ301TK-COND (Tanker Truck) drains to 301-AZ containment. AZ31COND-LDA-130 activation may indicate a leak in this transfer line.

**Automatic Actions:** None

**Immediate Actions:**

1. IF a visual observation inside 241-AZ-301 finds indications of a leak, **NOTIFY** Shift Manager/OE AND **RECOMMEND** response per TF-AOP-011.

2. IF no evidence of leakage is seen inside 241-AZ-301 **PERFORM** the following:
   
   [2.1] **CONFIRM** LDA-130 is LIT on panel AZ301-COND-ENCL-103 in 241-AZ-301 building AND **RESET** alarm at Panel AZ301-COND-ENCL-103.
   
   [2.2] IF directed by Shift Manager, **SHUT DOWN** condensate distribution system per TO-200-110.

3. **NOTIFY** Shift Manager of actions and findings.

**Possible Causes:**

1. Loss of power.
2. Instrument malfunction.
3. Leaking pipe interconnection or valve.
4. External liquid intrusion into 241-AZ-301 enclosure.
5. Leak in transfer line from 301-AZ to AZ301TK-COND (Tanker Truck).

**References:**

- **Drawings:** H-14-020807, Sht. 9; H-14-105764, Sht. 2; H-14-105770, Sht. 7
- **Documents:** TO-200-110, Operate 241-AZ-301 Condensate Distribution System
  TF-AOP-011, Response to Chemical and/or Radiological Events
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm: AZ31COND-LDA-131
Source: AZ301-COND-LDE-131  Setpoint: N/A
Alarm Class: Equipment Status
Alarm Description: AY101 Encasement Piping Leak detected

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

Automatic Actions: None

Immediate Actions:

[1] **CONFIRM** LDA-131 is LIT on panel AZ301-COND-ENCL-103 in 241-AZ-301 building AND

PUSH RESET button AZ301-COND-ENCL-103 to clear alarm.

[1.1] IF alarm will not clear AND

IF directed by Shift Manager/OE, **PERFORM** the following:

[1.1.1] **OPEN** valve AZ301-COND-V-118 to drain encasement.

[1.1.2] **WHEN** encasement has drained, **CLOSE** valve AZ301-COND-V-118.

[1.1.3] **PUSH** RESET button on AZ301-COND-ENCL-103 to clear alarm.

[2] IF directed by Shift Manager, **SHUTDOWN** condensate distribution system per TO-200-110.

[3] **NOTIFY** Shift Manager of actions and findings.

Possible Causes:

1. Loss of power.
2. Instrument malfunction.
3. Leaking pipe interconnection or valve.

References:

Drawings: H-14-105764, Sht. 2; H-14-105770, Sht. 7
Documents: TO-200-110, Operate 241-AZ-301 Condensate Distribution System
Respond to Monitor Control System Graphic #03 Leak Detect Alarms

Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm: AZ31COND-LDA-132
Source: AZ301-COND-LDE-132  Setpoint: N/A
Alarm Class: Equipment Status
Alarm Description: AY102 Encasement Piping Leak Detected

NOTE - Alarm Response Procedures are not designed for, nor intended to be applied to, "expected" alarms generated by approved work activities or procedures.
– The piping from 301-AZ to AY-102 is not currently installed.

Automatic Actions: None

Immediate Actions:

[1] CONFIRM LDA-132 is LIT on panel AZ301-COND-ENCL-103 in 241-AZ-301 building AND

  PUSH RESET button to clear alarm.

  [1.1] IF alarm will not clear AND

  IF directed by Shift Manager/OE, PERFORM the following:

  [1.1.1] OPEN valve AZ301-COND-V-121 to drain encasement.

  [1.1.2] WHEN encasement has drained, CLOSE valve AZ301-COND-V-121.

  [1.1.3] PUSH RESET button on AZ301-COND-ENCL-103 to clear alarm.

[2] CONFIRM condensate distribution system is correctly aligned per TO-200-110.


Possible Causes:

1. Loss of power.
2. Instrument malfunction.
3. Leaking pipe interconnection or valve.

References:

Drawings: H-14-105764, Sht. 2; H-14-105770, Sht. 7
Documents: TO-200-110, Operate 241-AZ-301 Condensate Distribution System
Facility: AY/AZ Primary Ventilation

Graphic: 03 Alarm: AZ31COND-LDA-133

Source: AZ301-COND-LDE-133 Setpoint: N/A

Alarm Class: Equipment Status

Alarm Description: AZ101 Encasement Piping Leak Detected

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

– The piping from 301-AZ to AZ-101 is not currently installed.

Automatic Actions: None

Immediate Actions:

[1] CONFIRM LDA-133 is LIT on panel AZ301-COND-ENCL-103 in 241-AZ-301 building AND

PUSH RESET button to clear alarm.

[1.1] IF alarm will not clear AND

IF directed by Shift Manager/OE, PERFORM the following:

[1.1.1] OPEN valve AZ301-COND-V-124 to drain encasement.

[1.1.2] WHEN encasement has drained, CLOSE valve AZ301-COND-V-124.

[1.1.3] PUSH RESET button on AZ301-COND-ENCL-103 to clear alarm.

[2] IF directed by Shift Manager, SHUTDOWN condensate distribution system per TO-200-110.


Possible Causes:

1. Loss of power.
2. Instrument malfunction.
3. Leaking pipe interconnection or valve.

References:

Drawings: H-14-105764, Sht. 2; H-14-105770, Sht. 7
Documents: TO-200-110, Operate 241-AZ-301 Condensate Distribution System
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm: AZ31COND-LDA-134

Source: AZ301-COND-LDE-134  Setpoint: N/A

Alarm Class: Equipment Status
Alarm Description: AZ102 Encasement Piping Leak Detected

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

Automatic Actions: None

Immediate Actions:

[1] CONFIRM LDA-134 is LIT on panel AZ301-COND-ENCL-103 in 241-AZ-301 building AND

PUSH RESET button to clear alarm.

[1.1] IF alarm will not clear AND

IF directed by Shift Manager/OE, PERFORM the following:

[1.1.1] OPEN valve AZ301-COND-V-127 to drain encasement.

[1.1.2] WHEN encasement has drained, CLOSE valve AZ301-COND-V-127.

[1.1.3] PUSH RESET button on AZ301-COND-ENCL-103 to clear alarm.

[2] IF directed by Shift Manager, SHUTDOWN condensate distribution system per TO-200-110.


Possible Causes:

1. Loss of power.
2. Instrument malfunction.
3. Leaking pipe interconnection or valve.

References:

Drawings: H-14-105764, Sht. 2; H-14-105770, Sht. 7
Documents: TO-200-110, Operate 241-AZ-301 Condensate Distribution System
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AZ-503-1

Source: LDE-AZ503-1  Setpoint: N/A

Alarm Class: Environmental Impact  
Alarm Description: Primary Condensate Seal Pot Drain Line Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:


Supplemental Actions:

Possible Causes:
1. Leakage from the primary condensate seal pot (AZ-PC-SP-1) drain line to catch tank 241-AZ-301.
2. Loss of power to LDE-AZ503-1.
3. Equipment Failure.

References:
Drawings: H-14-020807, Sht. 4
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-V0608-1

Source: LDE-V0608-1  Setpoint: N/A

Alarm Class: Environmental Impact
Alarm Description: 151-AZ Catch Tank Primary Vent Pipe Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:

[1] CONFIRM light LDY-VO608-1 is LIT in cabinet CAB-AZK1-2 in the 702AZ stack monitor room.


Supplemental Actions:


Possible Causes:

1. Leakage from 151-AZ primary vent pipe.
2. Loss of power to LDE-VO608-1.
3. External leakage into encasement pipe.
4. Equipment Failure.

References:

Drawings:  H-14-020107, Sht. 3
Documents:  TF-AOP-011, Response to Chemical and/or Radiological Events
Facility: AY/AZ Primary Ventilation

Graphic: 03  Alarm #: LDA-AY-2370-1
Source: LDE-AY-2370-1  Setpoint: N/A
Alarm Class: Environmental Impact
Alarm Description: AX-SP-137 Seal Pot Drain Line to tank AY-102 Encasement Leak Detected

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

Automatic Actions: None

Immediate Actions:

[2] IF a visual observation of AX or AY Tank Farm finds indications of a waste surface pool, NOTIFY Shift Manager/OE AND RECOMMEND response per TF-AOP-011.
[3] IF directed by Shift Manager/OE, PERFORM the following:
   NOTE - Opening this valve drains the AX-SP-137 (AX seal pot) drain line to TK-AY-102 encasement. Washington Administrative Code (WAC 173-303-640) requires draining of the encasement within 24 hours of receiving the alarm.
   [3.1] OPEN Encasement Drain Valve HV-AY370DR-1, located on the east side of AY102 annulus pump pit.
   [3.2] WHEN leak detector clears, CLOSE valve HV-AY370DR-1.

Supplemental Actions:


Possible Causes:

1. Leakage from seal pot drain line.
2. Loss of power to LDE-AY2370-1.
3. External leakage into encasement pipe.

References:

Drawings: H-2-131063, Sht. 1
Documents: TF-AOP-011, Response to Chemical and/or Radiological Events