A-TRAIN PRIMARY EXHAUSTER ALARM INDEX  
SY-241-VTP-ENCL-401

**Special Instructions:**

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. 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).
## Respond to Alarms at SY-241 A-Train Primary Exhauster

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Description</th>
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<tr>
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<td>Duct Heater HI dT SY241-VTP-TDAH-432</td>
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<td>Seal Pot Hi Level</td>
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<td>Record Sample Flow Low SY241-VTP-FAL-621</td>
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<td>Beta CAM Failure SY241-VTP-XA-625</td>
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<td>High Inlet Vacuum SY241-VTP-PAL-430</td>
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<td>Stack Flow Low SY241-VTP-FAL-632</td>
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<td>Beta CAM Flow Low SY241-VTP-FAL-631</td>
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<td>Beta CAM High Radiation SY241-VTP-RAH-624</td>
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<td>Interlock Engaged YL-3150)</td>
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<td>Pump Failure YL-3116</td>
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</tr>
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</table>

**RECORDS**

No records are generated during the performance of this procedure.

The record custodian identified in the Company Level Record Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY241-VTP-TDIC-432  Setpoint: 40 degrees F

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: Duct Heater High Temperature Differential

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] PRESS alarm reset PB-3143 to determine if alarm condition is still active.


[5] IF unable to clear alarm, REQUEST Shift Manager to notify Environmental on-call.

Supplemental Actions:

[6] IF directed by Shift Manager, PERFORM the following steps:


[6.2] IF heater is OFF, MONITOR the differential pressure across SY241-VTP-PDI-433 and SY241-VTP-PDI-435 for increased differential.

[6.3] SHUT DOWN A-Train Primary Ventilation System per TO-060-245.

[6.4] START SY241 B-Train Primary exhauster per TO-060-245.

Possible Causes:

1. Controller error.

References:


Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.

RPP-16922, Environmental Specification Requirements.

HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None
Source: SY241-VTP-LAH-438  Setpoint: Above overflow

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: Seal Pot High Liquid Level

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

- Seal Pot capacity is 12 gallons. The difference between Low Level alarm and High Level alarm is 3 gallons.

Immediate Actions:

[1] PRESS alarm reset PB-3143 to determine if alarm condition is still active.
[2] ENSURE drain and overflow valves SY241-VTP-V-405 and SY241-VTP-V-408 are OPEN.

Supplemental Actions:

[7] IF directed by Shift Manager, START SY241 B-Train Primary exhauster per TO-060 245.

Possible Causes:

1. Drain line is plugged.
2. Overflow isolation valve (SY241-VTP-V-405) closed or partially closed.
3. Seal Pot drain line valve (SY241-VTP-V-408) closed or partially closed.

References:

Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.
HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY296-VTP-FIT-621  Setpoint: 0.50 SCFM

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: Low Record Sample Flow

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] PRESS alarm reset PB-3143 to determine if alarm condition is still active.
[2] ENSURE isolation valves SY296-VTP-V-601, SY296-VTP-V-602, SY296-VTP-V-603, and SY296-VTP-V-604 are OPEN.
[3] ENSURE vacuum pump SY296-VTP-P-614 or SY296-VTP-P-624 is operating.
[6] NOTIFY Shift Manager of findings AND REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001 the need to notify Environmental.

Possible Causes:

1. Primary Exhauster has shut down.
2. Sample pump failure.
3. Pump Start/Stop (VTP-HS-3101) in the STOP position.
4. Plugged sample line (including filter paper).
5. Instrument malfunction.
6. Sample line isolation valve closed.

References:

            TF-REC-001, Response to Environmental Condition.
            HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

**Facility:** 241-SY Tank Farm

**Panel:** SY-241-VTP-ENCL-401  **Alarm #:** None

**Source:** SY296-VTP-CAM-602  **Setpoint:** N/A

**Alarm Class:** Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

**Alarm Description:** Failure of Beta CAM

**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] **PRESS** alarm reset PB-3143 to determine if alarm condition is still active.

[2] **IF** horn is sounding, **POSITION** VTP-HS-3118 to BYPASS (SY296-VTP-ENCL-602).

[3] **CONFIRM** exhauster is operating.

[3.1] **IF** exhauster is shut down, **PERFORM** the following:

[3.1.1] **EVACUATE** personnel from SY Farm to a protected or upwind area

[3.1.2] **NOTIFY** Shift Manager of alarms and actions

[3.1.3] **REQUEST** Shift Manager respond per TF-AOP-021

[3.1.4] **IF** directed by Shift Manager, **STOP** waste disturbing activities to SY Farm

[3.1.5] **GO TO** Step [6].


[5] **CONFIRM** vacuum pump SY296-VTP-P-614 or SY296-VTP-P-624 is OPERATING.

[6] **NOTIFY** Shift Manager of findings AND **REQUEST** Health Physics Technician (HPT) to investigate the alarm per TF-OPS-005.

[7] **IF** unable to clear the alarm, **REQUEST** Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental.

(Continued on Next Page)
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None
Source: SY296-VTP-CAM-602  Setpoint: N/A

Supplemental Actions

[8] IF directed by Shift Manager, SHUT DOWN A-Train per TO-060-245.
[9] IF directed by Shift Manager, START 241-SY B-Train Primary exhauster per TO-060-245.
[10] CONTINUE to monitor system parameters AND NOTIFY Shift Manager of changing indications.

Possible Causes:

1. Primary Exhauster has shut down.
2. Loss of power to CAM.
3. Sample pump failure.
5. Plugged sample line (including filter paper).

References:

Documents:  TO-060-245, Operate SY241 Primary Exhauster Systems.
            TF-OPS-005, DST Daily CAM and Record Sampler Inspections.
            TF-OPS-019, SY Farm Air Sample Filter Exchanges of Stack and Annulus Effluent
            Record Samplers and CAM(s).
            TF-AOP-021, Response to Tank Farm Ventilation Upset.
            RPP-16922, Environmental Specification Requirements.
            TF-REC-001, Response to Environmental Condition.
            HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY241-VTP-PDIT-430  Setpoint: -5.9 inches WG

**High Inlet Vacuum**

**SY241-VTP-PAL-430**

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: High Inlet Vacuum

**Automatic Actions:**

1. A-Train Primary Exhauster shuts down.
2. Vacuum pump shuts down.
3. Heater shuts down.

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. EVACUATE personnel from SY Farm to a protected or upwind area.
2. ENSURE A-Train Primary Exhauster has shut down.
3. NOTIFY Shift Manager of alarms and actions AND REQUEST Shift Manager respond per TF-AOP-021.
4. REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental.
5. IF directed by Shift Manager, STOP waste disturbing activities to SY Farm.
6. IF the high pressurization alarm is sounding, GO TO ARP-T-431-00101.

**Supplemental Actions:**

7. CONTINUE to monitor system parameters AND NOTIFY Shift Manager of changing indications.
8. CONTACT Tank Farm Engineering.
9. IF directed by Shift Manager, RESTART A-Train Primary Exhauster per TO-060-245.
10. IF directed by Shift Manager, RESTART 241-SY Primary Exhauster B-Train per TO-060-245.

(Continued on Next Page)
Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401          Alarm #: None

Source: SY241-VTP-PDIT-430          Setpoint: -5.9 inches WG

Possible Causes:

1. Butterfly valve SY241-VTP-V-105 is closed or partially closed.

References:


Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.
ARP-T-431-00101, Respond to Alarms in the 241-SY-271 Instrument Building.
RPP-16922, Environmental Specification Requirements.
TF-AOP-021, Response to Tank Farm Ventilation Upset.
HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY241-VTP-TDIC-432  Setpoint: 20 degrees F

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: Duct Heater Low Temperature Differential

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] PRESS alarm reset PB-3143 to determine if alarm condition is still active.
[4] NOTIFY Shift Manager of findings AND REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental about the duct heater low differential temperatures per the Environmental on call list.

Possible Causes:

1. Isolation valve from tanks partially closed, yielding low air flow across heater duct.
2. Mist Eliminator (SY241-VTP-DMST-002) obstructed low air flow.
3. Instrument malfunction.
5. Temperature element failure/malfunction.
6. Loss of power to transmitter, broken wire, lifted lead.
7. Temperature controller SY241-VTP-TC-432A Manual reset needs to be reset. (inside SY241-VTP-ENCL-400)

References:

Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

**Panel:** SY-241-VTP-ENCL-401  **Alarm #:** None

**Source:** SY-241-VTP-LAL-438  **Setpoint:** N/A

**Alarm Class:** Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

**Alarm Description:** Seal Pot Low Liquid Level

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

- Seal Pot capacity is 12 gallons. The difference between Low Level alarm and High Level alarm is 3 gallons.

**Immediate Actions:**

1. **PRESS** alarm reset PB-3143 to determine if alarm condition is still active.
2. **ENSURE** drain valves SY241-VTP-V-406 and SY241-VTP-V-407 are CLOSED.
3. **ENSURE** overflow valve SY241-VTP-V-405 and drain valve SY241-VTP-V-408 are OPEN.
4. **REMOVE** Seal Pot fill cover.
5. **ADD** 2 gallons of water to Seal Pot.
6. **PRESS** alarm reset (PB-3143) pushbutton.
7. **REPLACE** Seal Pot fill cover.
8. **NOTIFY** Shift Manager of findings.

**Supplemental Actions:**

9. **CONTACT** Tank Farm Engineering.
10. **IF** directed by Shift Manager, **SHUT DOWN** A-Train primary Ventilation per TO-060-245.
11. **IF** directed by Shift Manager, **START** 241-SY Primary exhauster B-Train per TO-060-245.

(Continued on Next Page)
Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401   Alarm #: None
Source: SY241-VTP-LAL-438   Setpoint: N/A

Possible Causes:
1. Low Level valve SY241-VTP-V-406 open, partially open or leaking-by.
2. Seal Pot drain line valve SY241-VTP-V-407 open, partially open, or leaking-by.
3. Seal Pot not filled upon placing exhauster in service.

References:
Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.
             HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY296-VTP-FIT-632  Setpoint: 700 SCFM

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Gas Release Event Flammable Gas Control)

Alarm Description: Low Stack Flow

Automatic Actions:
1. Heater shuts down.

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] PRESS alarm reset PB-3143 to determine if alarm condition is still active.
[2] CHECK if A Train Primary Exhauster has shut down.
   [2.1] IF A Train Primary Exhauster has shut down, PERFORM the following:
      [2.1.1] EVACUATE personnel from SY Farm to a protected or upwind area
      [2.1.2] NOTIFY Shift Manager of alarms and actions
      [2.1.3] REQUEST Shift Manager respond per TF-AOP-021
      [2.1.4] IF directed by Shift Manager, STOP waste disturbing activities to SY Farm.
[4] NOTIFY Shift Manager of findings AND REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental.

(Continued on Next Page)
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None
Source: SY296-VTP-FIT-632  Setpoint: 700 SCFM

Supplemental Actions:

[5] IF directed by Shift Manager, **RESTART** A-Train primary Ventilation per TO-060-245.
[6] IF directed by Shift Manager, **SHUT DOWN** A-Train primary Ventilation per TO-060-245.
[7] IF directed by Shift Manager, **START** 241-SY Primary exhauster B-Train per TO-060-245.

Possible Causes:

1. Primary Exhauster has shut down.
2. Instrument failure.
3. Instrument isolation valves closed.

References:

Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY296-VTP-FIT-631  Setpoint: 0.50 SCFM

Alarm Class: Technical Safety Requirement (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Gas Release Event Flammable Gas Control)

Alarm Description: Low Beta CAM Flow

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] PRESS alarm reset PB-3143 to determine if alarm condition is still active.
[3] ENSURE vacuum pump SY296-VTP-P-614 or SY296-VTP-P-624 is operating.
[6] NOTIFY Shift Manager of findings AND REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental.

Supplemental Actions:

[8] IF directed by Shift Manager, START 241-SY Primary exhauster B-Train per TO-060-245.

(Continued on Next Page)
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401    Alarm #: None

Source: SY296-VTP-FIT-631    Setpoint: 0.50 SCFM

Possible Causes:

1. Primary Exhauster has shut down.
2. Sample pump failure.
4. Plugged sample line (including filter paper).
5. Equipment malfunction.

References:

Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.
            RPP-16922, Environmental Specification Requirements.
            TF-REC-001, Response to Environmental Condition.
            HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None

Source: SY296-VTP-CAM-602  Setpoint: 3000 cpm

Yellow
Beta Cam High Radiation
SY241-VTP-RAH-624

Alarm Class: Technical Safety Requirements (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: High Radiation in A Train Primary Exhaust Air Stream

Automatic Actions:

1. A-Train Primary Exhauster shuts down.
2. Vacuum pump shuts down.
3. Heater shuts down.

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] EVACUATE all personnel in SY Farm to a protected or upwind location.
[2] ENSURE Primary A Train Exhauster has shutdown.
[4] IF directed by Shift Manager, STOP waste disturbing activities to SY Farm.
[5] IF directed by Shift Manager/OE, START B-Train Primary Exhauster per TO-060-245.
[6] CHECK to see if any of the following are alarming in 241-SY-271 Instrument Building:
   - Panel B-3 ANN-101 alarm 02, HIGH PRESSURE TANK 101 (LOW VACUUM) (WST-PAH-313)
   - Panel B-3 ANN-102 alarm 02, HIGH PRESSURE TANK 102 (LOW VACUUM) (WST-PAH-316)
   - Panel B-3 ANN-103 alarm 02, HIGH PRESSURE TANK 103 (LOW VACUUM) (WST-PAH-319).

Supplemental Actions:


(Continued on Next Page)
Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None
Source: SY296-VTP-CAM-602  Setpoint: 3000 cpm

Possible Causes:

1. High Radiation in A-Train Primary Exhaust air stream.
2. Alarm Setpoint on CAM is set too low and background radiation level spikes have gone above the CAM alarm setpoint.
3. Breakthrough of primary and secondary high efficiency particulate air filters (HEPA).
5. High Beta radiation detected.
6. Failure of detector.

References:

Documents:  TO-060-245, Operate SY241 Primary Exhauster Systems.
            RPP-16922, Environmental Specification Requirements.
            TF-AOP-021, Response to Tank Farm Ventilation Upset.
            HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401  Alarm #: None
Source: SY241-VTP-PDIT-430  SY296-VTP-CAM-602  Setpoint: -5.9 inches H2O  3000 cpm

Alarm Class: Technical Safety Requirements (LCO 3.1, DST Primary Tank Ventilation Systems, and LCO 3.4, DST Induced Gas Release Event Flammable Gas Control)

Alarm Description: A-Train Primary Exhaust High Rad and/or HIGH Inlet Vacuum

Automatic Actions:
1. A-Train Primary Exhauster shuts down.
2. Vacuum pump shuts down.
3. Heater shuts down.

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] EVACUATE all personnel in SY Farm to a protected or upwind location.
[4] IF directed by Shift Manager, STOP waste disturbing activities to SY Farm.
[5] IF directed by Shift Manager/OE, START B-Train Primary Exhauster per TO-060-245.
[6] IF BETA CAM HIGH RADIATION SY241-VTP-RAH-624 alarm is LIT, ENSURE response for this alarm is completed (see page 17).
[7] IF HIGH INLET VACUUM SY241-VTP-PAL-430 alarm is LIT, ENSURE response for this alarm is completed (see page 8).
[8] NOTIFY Shift Manager of findings.

(Continued on Next Page)
Facility: 241-SY Tank Farm

Panel: SY-241-VTP-ENCL-401    Alarm #: None

Source: SY241-VTP-PDIT-430    Setpoint: -5.9 inches H2O
SY296-VTP-CAM-602    3000 cpm

Supplemental Actions (Cont.):

[9] IF requested by Shift Manager to reset the interlock, PERFORM steps [9.1] to [9.3].
[9.3] PRESS interlock reset PB-3141 pushbutton.
[10] CONTINUE to monitor system parameters AND NOTIFY Shift Manager of changing indications.

Possible Causes:

1. Beta CAM High Radiation alarm.
2. Instrument malfunction.
3. High Inlet Vacuum Alarm.

References:

Documents: TO-060-245, Operate SY241 Primary Exhauster Systems.
            TF-AOP-021, Response to Tank Farm Ventilation Upset.
            RPP-16922, Environmental Specification Requirements.
            HNF-SD-WM-TSR-006, Tank Farms Technical Safety Requirements.
Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY296-VTP-ENCL-602   Alarm #: None

Source: SY296-VTP-FC-602   Setpoint: 1.25 SCFM

Alarm Class: Environmental Impact
Alarm Description: Record Sampler flow NOT isokinetic with stack flow

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] CHECK enclosure SY-241-VTP-ENCL-401 to see if the following are alarming:
   • Stack Flow Low SY296-VTP-FAL-632
   • Record Sample Flow Low SY296-VTP-FAL-621.


[4] NOTIFY Shift Manager of findings AND
   REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001 the need to notify Environmental of the low flow condition per the Environmental on call list.

Possible Causes:

1. Low/High stack flow.
2. Record Sampler flow Low/High.
3. Flow Control valve malfunction.
4. Instrument isolation valve(s) closed.
5. Vacuum Pump failure.
8. Vacuum pump MOV failure.

References:

              TF-REC-001, Response to Environmental Condition.
Facility: 241-SY Tank Farm

Panel: SY296-VTP-ENCL-602  Alarm #: None

Source: SY296-VTP-FC-602  Setpoint: 1.25 SCFM

Alarm Class: Equipment status

Alarm Description: BETA CAM flow not isokinetic with stack flow

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. **CHECK** enclosure SY-241-VTP-ENCL-401 to see if the following are alarming:
   - Stack Flow Low SY241-VTP-FAL-632
   - Beta Sample Flow Low SY241-VTP-FAL-631.
2. **OBSERVE** Beta CAM SCFM reading on SY296-VTP-FIT-631.
3. **OBSERVE** Stack Flow SCFM reading on SY296-VTP-FIT-632.
4. **NOTIFY** Shift Manager of findings.

Possible Causes:

1. Low/High stack flow.
2. Low/High Beta CAM flow.
3. Flow Control valve malfunction.
4. Instrument isolation valve(s) closed.
5. Vacuum Pump Failure.
6. Isokinetic Flow Controller Failure.
8. Vacuum pump MOV failure.

References:

Respond to Alarms at SY-241 A-Train Primary Exhauster

Facility: 241-SY Tank Farm

Panel: SY296-VTP-ENCL-602   Alarm #: None

Source: SY296-VTP-PSH-614
        SY296-VTP-PSH-624   Setpoint: 13.85 inches WG

Alarm Class: Equipment status
Alarm Description: Beta CAM and Record Sampler Vacuum Pump Failure

Automatic Actions:
1. Switch to backup vacuum pump.

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] ENSURE vacuum pump SY296-VTP-P-614 or SY296-VTP-P-624 is operating.
[2] NOTIFY Shift Manager of alarm/findings AND REQUEST Shift Manager evaluate in accordance with procedure TF-REC-001, the need to notify Environmental of the pump failure per the Environmental on call list.

Possible Causes:
1. Pump control module malfunction.
2. Vacuum Pump MOV Failure.
4. Safety Relief Valve failure.
5. Instrument malfunction.

References:
Documents: TF-REC-001, Response to Environmental Condition.