Load-In Facility Alarm Response

ETF Alarm Response Procedure

EFFLUENT TREATMENT FACILITY

USQ Not Required – ETF is a <Hazard Category 3 Radiological Facility

CHANGE HISTORY (≤ LAST 5 REV-MODS)

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<th>Rev-Mod</th>
<th>Release Date</th>
<th>Justification</th>
<th>Summary of Changes</th>
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<td>A-1</td>
<td>10/24/2018</td>
<td>Technical Authority Request</td>
<td>Deleted tank level and temperature information and corrected component nomenclature.</td>
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<tr>
<td>A-0</td>
<td>03/09/2016</td>
<td>Converting to WRPS Format</td>
<td>New Procedure; Supersedes ETF-PRO-AR-51375 (ARP-59A-001)</td>
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Load-In Facility

Alarm

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RECORDS

No records are generated during the performance of this procedure.
DESCRIPTION:  LOAD-IN SUMP LEVEL HIGH (LDA-59A-125)
Setpoint:  20 inches of water in load-in sump
Alarm Location:  LDE-59A-125
Graphic:  Alarm Summary Screen or Recent Alarm Display
Indications:  N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.
- Pumps shut down at high level interlock of 90% when valve MV-59A-109 is open.

Automatic Actions:
1. Load-in transfer pumps P-103A (HS59A103A) and P-103B (HS59A103B) shut down.

Immediate Actions:

Possible Causes:
1. Rain water or snow melt accumulation.
2. Load-in tanker, tanks or piping leak.

References:
Drawings:  None
Documents:  ETF-59A-001, Load-In Station Operation
DESCRIPTION: WATER IN TRANSFER LINE SECONDARY CONTAINMENT (LDA-59A-127)
Setpoint: Presence of water in transfer line secondary containment
Alarm Location: LDE-59A-127
Graphic: Alarm Summary Screen or Recent Alarm Display
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
1. Load-in transfer pumps P-103A (HS59A103A) and P-103B (HS59A103B) shut down when HS59A103B is OPEN.

Immediate Actions:
[1] IF MV123 (HS59A123) is open and pumping to LERF/Surge, ENSURE P-103A (HS59A103A) and P-103B (HS59A103A) are OFF.
[2] ON graphic Load-In, CONFIRM MV123 (HS59A123) is CLOSED.
NOTE - A large volume of water could be an indication of a leak in the load-in line.
[5] IF a large volume of water drains, NOTIFY SOM.

Supplemental Actions:
NOTE - The following step institutes a RCRA-permit requirement.
[7] (SOM) IF the alarm is caused by an instrument failure or malfunction and the system is in operation, INSTITUTE a daily visual inspection (observe annulus draining) AND RECORD inspection need in ETF Control Room Logbook.

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## Load-In Facility Alarm Response

### LDA-59A-127 (CONT.)

**DESCRIPTION:** WATER IN TRANSFER LINE SECONDARY CONTAINMENT (LDA-59A-127)

**Setpoint:** Presence of water in transfer line secondary containment

**Alarm Location:** LDE-59A-127

**Graphic:** Alarm Summary Screen or Recent Alarm Display

**Indications:** N/A

(Continued)

### Possible Causes:

1. Condensate buildup in annulus.
2. Leak in load-in transfer line.

### References:

- **Drawings:** None
- **Documents:** ETF-59A-001, Load-In Station Operation
AIR TEMP 225-EB LO  
TAL-59A-101

DESCRIPTION: LOAD-IN LCU BUILDING TEMPERATURE LOW (TAL-59A-101)

Setpoint: 50°F

Alarm Location: TE-59A-101

Graphic: Alarm Summary Screen or Recent Alarm Display

Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:

None.

Immediate Actions:

[1] CONFIRM heating and cooling units are in proper operating configuration per ETF-45-003.

[2] ENSURE load-in LCU building door is CLOSED.

[3] NOTIFY SOE/SOM.

Possible Causes:

1. Load-in building electric heater is not ON.
2. Load-in building heat pump is not on HEAT setting.
3. Load-in building door is OPEN.

References:

Drawings: None

Documents: ETF-45-003, Load-in Building HVAC Operation
AIR TEMP 225-EB LO-LO
TALL-59A-101

DESCRIPTION: LOAD-IN LCU BUILDING TEMPERATURE LO-LO
  Setpoint: 40°F
  Alarm Location: TE-59A-101
  Graphic: Alarm Summary Screen or Recent Alarm Display
  Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:

  None.

Immediate Actions:

  [1] CONFIRM heating and cooling units are in proper operating configuration per ETF-45-003.
  [2] ENSURE load-in LCU building door is CLOSED.
  [3] NOTIFY SOE/SOM.

Possible Causes:

  1. Load-in building electric heater is not ON.
  2. Load-in building heat pump is not on HEAT setting.
  3. Load-in building door is OPEN.

References:

  Drawings: None
  Documents: ETF-45-003, Load-in Building HVAC Operation
AIR TEMP 225-EB HI
TAH-59A-101

DESCRIPTION: LOAD-IN LCU BUILDING TEMPERATURE HI
Setpoint: 85°F
Alarm Location: TE-59A-101
Graphic: Alarm Summary Screen or Recent Alarm Display
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
None.

Immediate Actions:
[1] CONFIRM heating and cooling units are in proper operating configuration per ETF-45-003.
[2] ENSURE load-in LCU building door is CLOSED.
[3] NOTIFY SOE/SOM.

Possible Causes:
1. Load-in building electric heater is ON.
2. Load-in building heat pump is not on COOL setting.
3. Load-in building door is OPEN.

References:
Drawings: None
Documents: ETF-45-003, Load-in Building HVAC Operation
AIR TEMP 225-EB HI-HI
TAHH-59A-101

DESCRIPTION: LOAD-IN LCU BUILDING TEMPERATURE HI-HI
  Setpoint: 100°F
  Alarm Location: TE-59A-101
  Graphic: Alarm Summary Screen or Recent Alarm Display
  Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
  None.

Immediate Actions:
  [1] CONFIRM heating and cooling units are in proper operating configuration per ETF-45-003.
  [2] ENSURE load-in LCU building door is CLOSED.
  [3] NOTIFY SOE/SOM.

Possible Causes:
  1. Load-in building electric heater is ON.
  2. Load-in building heat pump is not on COOL setting.
  3. Load-in building door is OPEN.

References:
  Drawings: None
  Documents: ETF-45-003, Load-in Building HVAC Operation
DESCRIPTION: VALVE FAULT
  Setpoint: Position Switch Open & Closed
  Graphic: Alarm Summary Screen or Recent Alarm Display
  Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
NOTE - Load-in transfer pumps 59A-P-103A and 59A-P-103B may not start. Pumps require an open indication on suction and discharge flow path.

Immediate Actions:
  [2] NOTIFY SOM.

Possible Causes:
  1. Position switch failure.
  2. Valve failure to fully OPEN or CLOSE.

References:
  Drawings: None
  Documents: None
DESCRIPTION:
LOAD-IN BUILDING 120VAC POWER FAIL
Setpoint: N/A
Alarm Location: Building Power
Graphic: Alarm Summary Screen or Recent Alarm Display
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
None.

Immediate Actions:
[1] CONFIRM battery backup supply to LCU is operational.
[2] NOTIFY SOM.

Possible Causes:
1. Equipment malfunction: Primary power supply.

References:
Drawings: None
Documents: None
Load-In Facility Alarm Response

BAT ALRM LOAD UPS LOW BAT
JA_59A15VDC

DESCRIPTION:
LOAD-IN BUILDING 120VAC POWER FAIL
Setpoint: N/A
Alarm Location: Building Power
Graphic: Alarm Summary Screen or Recent Alarm Display
Indications: N/A

NOTE - Alarm response procedures are not designed for, nor intended to be applied to, “expected” alarms generated by approved maintenance or testing procedures.

Automatic Actions:
None.

Immediate Actions:
[1] CONFIRM battery backup supply to LCU is operational.
[2] NOTIFY SOM.

Possible Causes:
1. Equipment malfunction: Load-in UPS battery fail.

References:
Drawings: None
Documents: None