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

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1.0 PURPOSE AND SCOPE

1.1 Purpose
This procedure provides a safe, uniform way to inspect the leachate pumps and controls for LERF.

1.2 Scope
Procedure instructions include steps for inspecting all leachate pumps at LERF.

2.0 INFORMATION
None.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Radiation and Contamination Control

3.1.1 Work in radiological areas will be performed using a radiological work permit following review by Radiological Control per ALARA Work Planning procedure, TFC-ESHQ-RP_RWP-C-03.

3.2 Environmental Compliance

3.2.1 In the event of a spill/leak/release, notify the SOM/FWS and respond per ETF-ERP-85B-003, Emergency Spill or Release at ETF.
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:
- Multimeter.

4.2 Performance Documents

The following documents may be needed to perform this procedure:
- DOE-0336, Hanford Site Lockout/Tagout Procedure
- H-2-79663, Electrical One Line Diagram and Panel Schedule
5.0 PROCEDURE

5.1 Pump Inspection

Special Instructions

Section 5.1 is designed to apply to all leachate pumps. Steps will be repeated for each pump.

- "*" = Basin number 42, 43, or 44
- Electrical racks are located at northwest corner of each retention basin
- Figure 1 depicts locations within racks.

5.1.1 REQUEST SOM turn leachate pump controls OFF.

5.1.2 APPLY lock and tag per DOE-0336 to pump circuit.

NOTE - Steps 5.1.3 through 5.1.7 may be performed in any logical sequence.

5.1.3 INSPECT the leachate pump for the following:
- Defects
- Deterioration
- Unusual wear
- Dirty contacts
- Loose or missing parts on the following:
  - Leachate motor starter
  - Portable motor starters
  - Level relay
  - MOV relay (Basin-43 only)
  - Other equipment in rack.

5.1.4 RECORD deficiencies on work package.

5.1.5 CLEAN enclosures AND

BURNISH contacts.

5.1.6 MEASURE AND RECORD resistance of the following motor leads to ground:
- T1
- T2
- T3.
5.1 Pump Inspection (Cont.)

5.1.7 MEASURE AND RECORD resistance between the following motor leads (winding resistance):
- T1 and T2
- T1 and T3
- T2 and T3.

5.1.8 REMOVE lock and tag per DOE-0336.

5.1.9 RECORD hour meter indication on PM/S data sheet.

5.1.10 REPEAT Steps 5.1.1 through 5.1.9 for each leachate pump.

5.2 Restoration

5.2.1 RESTORE to as-found conditions.

5.2.2 INFORM SOM test is complete and instrument/equipment/system may be returned to service.

5.3 Acceptance Criteria

Acceptance criteria has been met when steps in this procedure have been satisfactorily performed and results are recorded on the data sheet(s).

5.4 Review

5.4.1 INFORM FWS test is complete.

5.4.2 (FWS) REVIEW AND ENSURE the following
- Completed data sheets meet the acceptance criteria
- Comments sections are filled out appropriately
- Work requests needed as a result of this procedure are identified and generated
- Work request number(s) of any work documents generated as a result of this procedure, are recorded in the comments/remarks section of the data sheet.
5.5 Records

The performance of this procedure generates no records. However PM/S data sheets associated with the procedure are records and are maintained in the work package as record material.

The record custodian identified in the Company Level Records Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
Figure 1 - Panel Layout and Control Diagram

*BASIN 42, 43 OR 44 DEPENDING ON WHICH BASIN STATION IS LOCATED AT.

CONTROL RACK

CONTROL DIAGRAM