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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for a safe, uniform method for inspecting the Vessel Offgas (VOG) System filter heater at the ETF.

1.2 Scope

This procedure applies to giving instructions for inspecting, cleaning, and testing the VOG System filter heater (45D-E-1) and its associated enclosure and controls (JB-45D-E1-01).

2.0 INFORMATION

None.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Some locations require LOTO for protection against temperature, pressure, or hazardous chemicals before breaching the system. Under these circumstances, lock and tag is required in accordance with DOE-0336, Hanford Site Lockout/Tagout Procedure.

3.2 Radiation and Contamination Control

3.2.1 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.

3.3 Environmental Protection

3.3.1 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

NOTE - M&TE used to collect acceptance criteria data during performance of this procedure shall meet the following requirements:

- Be within its current calibration cycle as evidenced by an affixed calibration label
- Be capable of desired range
- Accuracy is equal to or greater than M&TE tolerance specified on PM data sheet or is at least four times greater than specified device tolerance.

The following supplies may be needed to perform this procedure:

- Megohmmeter (calibrated M&TE)
- Digital volt ohmmeter
- Vacuum cleaner and clean rags.

4.2 Performance Documents

The following documents may be needed to perform this procedure:

- DOE-0336, Hanford Site Lockout/Tagout Procedure.

4.3 Field Preparations

4.3.1 SHUT DOWN VOG System before beginning work.
5.0 PROCEDURE

Special Instructions

Operations personnel perform LOTO in Sections 5.1 and 5.2 where identified.

Findings are to be recorded as satisfactory or unsatisfactory where indicated on data sheet. Problems encountered, corrective actions completed (connection tightening, cleaning), and need for further work should be documented on work package.

5.1 Inspection

5.1.1 (Ops) IF LOTO is required, INSTALL lock and tag per DOE-0336.

5.1.2 INSPECT control panel enclosure (JB-45D-E1-01) and cover-mounted devices for damage and proper mechanical operation.

5.1.3 INSPECT control panel interior for cleanliness AND CLEAN with vacuum and clean rags.

5.1.4 INSPECT all control devices, terminals, and wiring for damage, indications of overheating, and looseness AND TIGHTEN any loose connections found.

5.1.5 INSPECT electro-mechanical relay contacts for excessive pitting, burning, and smooth operation.

5.1.6 MEASURE AND RECORD heater insulation resistance to ground (minimum acceptable resistance is 2.0 megohms).

5.1.7 MEASURE AND RECORD load resistance between each heater phase.

5.1.8 ENSURE all test equipment has been disconnected, removed, and system/equipment staged for restoration to original condition.
5.2 Restoration

5.2.1 RESTORE to as-found conditions.

5.2.2 ENSURE alarms are reset or cleared.

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

5.2.4 (Ops) REMOVE lock and tag per DOE-0336 AND RE-ENERGIZE electrical supply circuit as directed by CRO.

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.