ETF Fire Damper Inspection

Tank Farm Maintenance Procedure

Effluent Treatment Facility

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 instructions for a safe uniform method for inspecting fire dampers.

1.2 Scope

This procedure is applicable to fire dampers at ETF.

This procedure can be performed in multiple locations. A work area and/or location specific hazard analysis must be performed prior to starting the activity per TFC-ESHQ-S_SAF-C-02.

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-ESH-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:
- Fusible links
- Lubricant
- Step ladder
- Man lift or scaffold
- Sheet metal strips.

4.2 Performance Documents

The following documents may be needed to perform this procedure:
- DOE-0360, Hanford Site Confined Space Procedure (HSCSP)

4.3 Field Preparation

4.3.1 ENSURE Operations personnel have shut down RCA HVAC system to allow performance of this procedure.

4.3.2 ENSURE a work area and/or a location specific hazards analysis has been performed per TFC-ESHQ-S_SAF-C-02.

4.3.3 IF fire damper being worked on is located in a non-permit required confined space, COMPLETE the Hanford Confined Space Hazard Identification Form (A-6005-724) per DOE-0360.
5.0 PROCEDURE

Special Instructions

HPTs are required to survey dampers upon opening.

5.1 Damper Survey

5.1.1 REMOVE inspection cover.

5.1.2 ENSURE fire damper is not blocked open by any means other than approved actuating device.

5.1.3 IF inspecting supply air actuating damper 45B-FD-1, GO TO Section 5.3.

5.2 Fusible Links Damper

NOTE - Damper 45-FD-W22 is spring-loaded.

5.2.1 DISCONNECT actuating device AND

CONFIRM damper closes (smoothly) without any additional force.

5.2.2 ADJUST for proper operation.

5.2.3 INSPECT damper to ensure it is not damaged and is in good operable condition, with special attention made to the following:

- Hinges
- Other moving parts.

5.2.4 LUBRICATE moving parts.

5.2.5 INSPECT fusible link for the following AND

REPLACE if any of the following are present:

- Visible damage
- Wear
- Defect.
5.3 Air Actuating Damper (45B-FD-1)

5.3.1 PERFORM inspection of air supply tubing looking for the following:
- Loose fittings
- Rubber tubing integrity problems.

5.3.2 INSPECT damper for proper operation as follows:

5.3.2.1 CLOSE air supply valve to 45B-FD-1.

5.3.2.2 BLEED off air pressure between isolation valve and 45B-FD-1 AND CONFIRM 45B-FD-1 closes.

5.3.2.3 OPEN air supply valve to 45B-FD-1.

5.3.2.4 CONFIRM 45B-FD-1 fully opens.

5.3.3 PERFORM maintenance to adjust for proper operation.

5.4 Restoration

5.4.1 RESTORE to as-found conditions.

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

5.5 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).
5.6 Review

5.6.1 INFORM FWS test is complete.

5.6.2 (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.

5.7 Records

This procedure is performed within a work package, as such, the procedure in its entirety will be maintained as a record per the Work Control process.

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.