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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for inspecting tank farm facilities fire, and smoke barrier features such as fire doors, fire dampers, and fire walls comprising the fire barriers.

1.2 Scope

Inspections are provided for tank farm facilities such as fire doors and fire and smoke barriers.

2.0 INFORMATION

2.1 General Information

2.1.1 Fire doors shall be self-closing at all times to protect the openings in fire rated barriers.

2.1.2 When replacing a fire door assembly, the replacement must be listed or approved and meet the required hourly rating for that opening. Fire door assemblies are tested and approved as a unit that includes the door, frame, closure hardware, hinges, and lock/latch hardware.

2.1.3 Fire doors in TOC facilities include manually operated passage doors with spring or hydraulic style closures and automatic closing roll-up doors activated by fusible links.

2.1.4 Glazing or view panels in fire doors must use fire protection rated materials installed in accordance with code limitations depending upon rating of door. Glazing in fire doors is factory installed. Installation of a glazing outside the factory violated the door listing removing the fire resistance rating.

2.1.5 Fusible links should have a temperature rating of approximately 160°F (71°C).

2.1.6 Fire Penetration Seals are provided around ducts, cables, pipes etc. penetrating a fire barrier. Fire penetration seals require use of materials listed and approved by TOC Fire Protection for use in fire barrier walls.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

Follow controls as specified in Task Specific Job Hazard Analysis found in the preventive maintenance work package.

3.2 Radiation and Contamination Control

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

3.3 Limits

3.3.1 Immediate action shall be taken to resolve any fire barrier deficiencies or impairments. Compensating measures determined by the TOC Fire Protection Engineer (in conjunction with the Fire Marshal) shall be implemented until the deficiency or impairment is corrected per standard TFC-ESHQ-FP-STD-04 requirements.

3.3.2 Any questionable finding shall be:
- Reported to the Shift Manager and the TOC Fire Protection Engineer
- Resolved with approval of the TOC Fire Protection Engineer per standard TFC-ESHQ-FP-STD-04 requirements.
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:

- Tank farm Radio or means of communication
- Lubricating oil.
- Screws, nuts, pins, or other fasteners, as required.
- Replacement spring closures or other door hardware, as required.
- Fusible Links, as required for fire dampers
- Ladder
- Flashlight.

4.2 Performance Documents

The following procedure may be needed to perform this procedure:

4.3 Field Preparation

4.3.1 REQUEST Shift Manager’s permission to perform the fire door and barrier inspections in the affected areas.
5.0 PROCEDURE

5.1 Fire Doors

5.1.1 IF at anytime during the performance of this procedure any fire door, fire and smoke barrier, or fire damper is found to have deficiencies or impairments that cannot be immediately repaired, INFORM the Shift Manager AND

REQUEST evaluation for compensating measures, from TOC Safety Fire Protection Engineer (i.e. no high hazard work, shift surveillances, etc.) per standard TFC-ESHQ-FP-STD-04 requirements.

NOTE - Steps 5.1.2 through 5.1.10.7 may be performed on multiple doors simultaneously, and may be performed in any logical order.

- Fire Doors are identified on drawings referenced on the Data Sheet.

5.1.2 PERFORM visual and operational inspection of fire doors.

5.1.3 CHECK the fire door is self-closing.

5.1.4 ENSURE fire door is NOT chocked or blocked open.

5.1.5 ENSURE fire door and doorway is obstructed.

5.1.6 ENSURE fire door does not obstruct more than 50% of any corridor or hallway when in the full open position.

5.1.7 CONFIRM fire door is legibly marked with its Fire Door Identification (FD1) number on inside and outside of door AND

RECORD discrepancies on Comment section of Data Sheet.

5.1.8 CONFIRM manufacturers labels are attached to fire door and fire door frame AND

RECORD on Data Sheet if the manufacturer’s hourly rating and serial number data label for the fire door and frame is missing, damaged or obscured.

5.1.9 CONFIRM the following:

• Fire door and fire door frame are not damaged or modified.

• Any installed vision panels are intact and firmly mounted in the frame.

5.1.9.1 RECORD discrepancies on Comment section of Data Sheet.
5.1 Fire Doors (Cont.)

5.1.10 INSPECT fire door hardware as follows:

NOTE - Steps 5.1.10.1 through 5.1.10.7 may be performed simultaneously with Step 5.1.11.

5.1.10.1 ENSURE hinges, latches and pivot points operate smoothly.

5.1.10.2 ENSURE hinges, knobs, latches, and crash bars are securely attached to the door and/or frame and screws are tight.

5.1.10.3 ENSURE closure device operates smoothly, and door closes with enough force to latch securely.

5.1.10.4 ENSURE latch is properly aligned and will maintain the door closed.

5.1.10.5 IF installed, ENSURE threshold, seal and door sweep are secure.

5.1.10.6 INSPECT fire door frame AND

IF deficiencies are identified, PERFORM minor repairs and adjustments.

5.1.10.7 CONFIRM door frame is not separating or broken loose from wall AND

RECORD any discrepancies in Comment Section of Data Sheet.

5.1.11 PERFORM fire door adjustments, repairs or replacement as required AND

DOCUMENT fire door deficiencies, adjustments, repairs, and repair parts needed on Data Sheet Comment section.

5.1.12 RESTORE door to As-Found position (normally closed),

OR

AS DIRECTED by Shift Manager AND

RECORD those directions on the Work Record or Shift Log.
5.2 Fire and Smoke Barriers

NOTE - Fire and smoke barriers are identified on drawings referenced on the Data Sheet.

- Step 5.2.1 and 5.2.2 may be performed simultaneously.

5.2.1 **INSPECT** all fire and smoke barriers within the building or facility and identify:
- Holes in the fire barrier
- Deterioration of fire barrier
- Condition of fire penetration seals
- General condition of fire barrier.

5.2.2 **IF** deficiencies are identified, **PERFORM** fire and smoke barrier adjustments, repairs or replacement **AND**

**DOCUMENT** Fire and Smoke Barriers deficiencies, adjustments, repairs, and repair parts needed on Data Sheet comment section.

5.3 Fire Dampers

NOTE - It is desirable to operate dampers with normal system air flow to ensure they are not held open by the air stream.

5.3.1 **EXAMINE** each fire damper **AND**

**INSPECT** hinges and other moving parts to see that they are in good operable condition.

5.3.2 **REMOVE** fusible link (where applicable), operate damper, and check latch (if provided) **AND**

**IF** lubrication is required, **LUBRICATE** moving parts.

5.3.3 **RE-INSTALL** fusible link, **OR**

**RETURN** damper to As-Found position.
5.4 Restoration

5.4.1 **INFORM** maintenance and operations management that preventive maintenance is complete.

5.4.2 **IF** fire door, fire barrier or fire damper deficiencies cannot be immediately repaired, **REQUEST** FWS initiate a work request **AND**

**RECORD** work request number on data sheet.

5.4.2.1 **CONFIRM** with Shift Manager compensating measures, identified by TOC Safety Fire Protection Engineer (i.e., no high hazard work, shift surveillances, etc.) per standard TFC-ESHQ-FP-STD-04 requirements, have been implemented. (Reference Step 5.1.1)

5.4.3 **RETURN** work package to FWS.

5.5 Records

The performance of this procedure generates no records. However PM 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.