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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for performing quarterly visual inspections, and filter(s) replacement for Kaeser ASD-30 T Rotary Screw Compressor.

1.2 Scope

This procedure provides directions for replacing the following filters for Kaeser ASD-30 T Direct Drive Rotary Screw Compressors at 242-A Evaporator:

- Cooling Air Filter Mat
- Control Cabinet Filter Mats

2.0 INFORMATION

2.1 General Information

Waste generated during the performance of this procedure such as oil, oil filters and clean-up rags shall be managed in accordance with TO-100-052, Perform Waste Generation, Segregation, Accumulation, and Clean-up

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Work activities will be performed in accordance with DOE-0359, Hanford Site Electrical Safety Program.

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 the ALARA Work Planning procedure TFC-ESHQ-RP_RWP-C-03.
4.0 PREREQUISITES

4.1 Special Tools, Equipment and Supplies

The following supplies may be needed to perform this procedure:
- Protective clothing (e.g., leather gloves, safety glasses)
- Lint-free cloth rags to wipe up any oil spills
- Bristle brush
- Vacuum cleaner
- Access key to Kaeser air compressor panels
- Cooling Air filter Mat - Kaeser part #6.1943.0
- Control Cabinet Filter Mats (two) - Kaeser Part #6.3572.0
- Other tools, equipment, and supplies as identified by Shift Manager/OE/FWS.

4.2 Performance Documents

The following documents may be needed to perform this procedure:
- Service Manual - Screw Compressor ASD T Tri-Voltage 9_5721 06 USE
- TO-620-160 - Operate 242-A Evaporator Compressed Air System
- TO-100-052 - Perform Waste Generation, Segregation, Accumulation, and Clean-up
- EE-108669 Data Sheet for Compressor CP-E-1
- EE-108670 Data Sheet for Compressor CP-E-2.
5.0 PROEDURE

5.1 Replace the Cooling Air Filter and Control Cabinet Filter Mats

Visual Inspection

5.1.1 VISUALLY INSPECT compressor for deficiencies AND RECORD any deficiencies found on Work Record.

Cooling Air Filter Mat

5.1.2 REFER to Figure 1 for cooling air filter mat replacement.

5.1.3 RELEASE the filter retaining clamps AND PULL filter frame away from cooler compartment.

5.1.4 REMOVE filter mat AND CLEAN the cooling inlet to remove dust and debris.

5.1.5 REPLACE with new filter mat, part # 6.1943.0.

5.1.6 CAREFULLY INSERT the filter mat in the retaining frame AND TIGHTEN filter retaining clamps to cooler compartment.

Control Cabinet Air Filter Mat

5.1.7 REFER to Figure 2 for Control Cabinet Air Filter Mat(s) replacement.

5.1.8 PERFORM the following steps on both the upper and lower ventilation grills:

NOTE - A flathead screwdriver may be used to assist in removing tight/snug grill.

5.1.8.1 GRASP AND SQUEEZE ventilation grill (Figure 2 Item 1) AND

RETRACT grill from panel.

5.1.8.2 REMOVE the filter mat from grill body.
5.1 Replace the Cooling Air Filter and Control Cabinet Filter Mats (Cont.)

5.1.8.3 INSTALL new filter mat (part #6.3572.0) in grill body AND SNAP ventilation grill to panel.

5.1.9 RECORD Cooling Air Filter Mat and Control Cabinet filter Mat replacement as completed on Data Sheet.

5.2 Restoration

5.2.1 DISPOSE of filter mats and other waste in accordance with TO-100-052.

5.2.2 IF any problems were encountered, INFORM Shift Manager/OE/FWS.

5.2.3 CHECK equipment restoration by observing indications are consistent with expected conditions.

5.2.4 NOTIFY Shift Manager/OE that maintenance is complete and compressor(s) may be returned to desired configuration per the applicable section(s) in procedure TO-620-160.

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, as applicable.
5.5 Records

The following records are generated during the performance of this procedure. 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.
Figure 1 – Replacing Cooling Air Filter Mat

Filter mat for the air and oil cooler

1. Filter mat
Figure 2 – Replacing Control Cabinet Filter Mats