Operate 244-S Air Compressor System

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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for Startup, Operation, and Shutdown of 244-S Air Compressor System.

1.2 Scope

This procedure applies only to 244-S Air Compressor System, and associated instrumentation and controls.

2.0 INFORMATION

2.1 Terms and Definitions

dB - Decibel, a unit commonly used to express sound pressure levels.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Ensure protective guards are in place around air compressor before starting.

3.1.2 Air compressor equipment surfaces may be thermally heated. Don leather gloves before contacting air compressor surface.

3.1.3 Noise levels inside the compressor room may exceed 85dB. Ear plugs shall be worn when the compressor is operating.

3.1.4 Personnel trained in the operation of breakers and disconnects will wear the following PPE as a minimum:

- Non-melting (untreated natural fiber) long-sleeved shirt
- Safety glasses
- Leather or insulating gloves
- Hearing protection.

3.2 Radiation and Contamination Control

3.2.1 When performed without a work package, this procedure is limited to radiological areas and work activities permitted by a Radiological Work Permit (RWP).

3.2.2 When work is performed in or when work will result in a high contamination, high radiation, or an airborne radioactive area, then an approved work package must be developed which is reviewed by Radiological Control per ALARA procedure TFC-ESHQ-RP_RWP-C-03.

3.3 Environmental Compliance

In the event the air compressor will be out of service for more than a week, Environmental must be notified in accordance with TFC-ESHQ-ENV_FS-C-01 because compressor is air source for waste tank level monitoring.

3.4 Limits

HNF-SD-WM-TSR-006 Tank Farm Technical Safety Requirements
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:
- Eye protection
- Hearing protection
- Leather gloves
- Tank Farm Radio
- Other tools, equipment and supplies as identified by Shift Manager/OE/FWS/User.

4.2 Performance Documents

The following procedures may be needed to perform this procedure:
- TF-OR-PWR-02, Stationary Operating Engineer West Area
- TO-100-052, Perform Waste Generation, Segregation, Accumulation, and Clean-Up.

4.3 Field Preparation

4.3.1 PRIOR to Startup or Shutdown of air compressor system NOTIFY Shift Manager.
5.0 PROCEDURE

5.1 Connect Portable Compressor

5.1.1 PRIOR to working in the general area of 244-S air compressors PERFORM the following:

5.1.1.1 DON the following safety equipment:
- Safety glasses
- Hearing protection
- Leather gloves.

5.1.1.2 ENSURE protective guards are installed.

NOTE - DCRT level instrumentation may be inoperable for planned activities for a time period not to exceed 7 days.

5.1.2 POSITION instrument air compressor disconnect switch S244-EDS-DS-101 to OFF (OPEN).

5.1.3 CLOSE isolation valve S244-IA-V-102.

5.1.4 CONNECT portable compressor to quick disconnect fitting (located at S244-IA-V-102 instrument air isolation valve).

5.1.5 START portable compressor.

5.1.6 REGULATE pressure to between 40 psi and 60 psi using portable compressor air regulator.

5.1.7 ALLOW air flow into system after 40 psi has been reached.

5.1.8 NOTIFY the following personnel compressor S244-IA-CMP-001 is off line, and portable air compressor is on line:
- Shift Manager
- S-Farm operator.

NOTE - Circuit Breaker 5 is located at S244-EDS-DP-102.

5.1.9 IF instrument air dryer is not operating, POSITION circuit breaker 5 for instrument air dryer S244-IA-DRY-103 to ON (CLOSED).

5.1.10 PUSH instrument air dryer I/O button S244-IA-PB-103A (‘I’ button) to START air dryer.
5.2 Records

The performance of this procedure generates no records.

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.