TSR Compliance

Operate 204-AR Air Portable Compressor System

Tank Farm Operating Procedure

204-AR

USQ # GCX-2

CHANGE HISTORY (≤ LAST 5 REV-MODS)

<table>
<thead>
<tr>
<th>Rev-Mod</th>
<th>Release Date</th>
<th>Justification</th>
<th>Summary of Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-7</td>
<td>08/08/2018</td>
<td>Procedures Standard</td>
<td>Updated Records Section to comply with Standard.</td>
</tr>
<tr>
<td>F-6</td>
<td>04/09/2018</td>
<td>Operations request</td>
<td>Step 5.1.7 changed range to regulate 204-AR Portable Air Compressor. Updated Tables to latest format.</td>
</tr>
<tr>
<td>F-5</td>
<td>06/15/2017</td>
<td>DSA changes</td>
<td>Corrected name of SAC 5.8.2 in Section 3.3 Limits.</td>
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<tr>
<td>F-4</td>
<td>05/24/2017</td>
<td>Request by TSR Compliance</td>
<td>Deleted reference to SAC 5.8.3. Added new Steps 5.1.6 and 5.1.7.</td>
</tr>
<tr>
<td>F-3</td>
<td>03/23/2017</td>
<td>Operations request</td>
<td>Added TSR Compliance to header.</td>
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1.0 PURPOSE AND SCOPE

1.1 Purpose
This procedure provides instructions for startup, operation, and shutdown of 204-AR portable air compressor system.

1.2 Scope
This procedure applies to 204-AR portable air compressor system and associated instrumentation and controls. The entire procedure requires meeting requirements of SAC 5.8.2 and AC 5.9.2.

2.0 INFORMATION
None.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Compliance with DOE–0359, Hanford Site Electrical Safety Program is required when working with this procedure.

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 general 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 radioactivity area, an approved work package must be developed which is reviewed by Radiological Control per the ALARA work planning procedure TFC-ESHQ-RP_RWP-C-03.

3.3 Limits

HNF-SD-WM-TSR-006
SAC 5.8.2 Flammable Gas Controls
AC 5.9.2 Ignition Controls
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:

- Eye protection
- Hearing protection
- Protective gloves
- Radios
- 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-01, Power Operator Rounds
- TO-100-052, Perform Waste Generation, Segregation, Accumulation and Clean-up.

4.3 Field Preparations

4.3.1 PRIOR to start-up or shut-down of air compressor system, NOTIFY Shift Manager of system status change.
5.0 PROCEDURE

5.1 Start Up 204-AR Portable Air Compressor

5.1.1 PERFORM valving and electrical lineups in accordance with the following:
  • Table 1
  • Table 2.

5.1.2 CONNECT portable air compressor discharge hose to valve AR204-IA-V-109.

5.1.3 CONFIRM protective guards are in place around air compressor before starting.

5.1.4 DON leather gloves.

5.1.5 START portable air compressor by positioning AUTO/OFF switch to AUTO.

5.1.6 ALLOW air pressure in portable air compressor to reach a minimum of 40 psi.

5.1.7 REGULATE pressure to between 20 psi and 30 psi using portable compressor air regulator.

5.1.8 SLOWLY OPEN valve AR204-IA–V-109.

5.1.9 NOTIFY Shift Manager portable compressor was started.
5.2 Shut Down 204-AR Portable Air Compressor

5.2.1 SHUT DOWN portable air compressor by positioning AUTO/OFF switch to OFF.

5.2.2 DON leather gloves.

5.2.3 CLOSE valve AR204-IA-V-109.

5.2.4 DISCONNECT portable air compressor discharge hose from valve AR204-IA-V-109.

5.2.5 NOTIFY Shift Manager portable air compressor is shut down.
5.3 Records

5.3.1 **PERFORM** the following for records identified within this procedure.

5.3.1.1 **RECORD** the number of times the record was generated in applicable column,

OR

**PLACE** a check mark (✓) in the N/A column.

5.3.1.2 **SUBMIT** the package for verification of completed records.

<table>
<thead>
<tr>
<th>Records Submittal Checklist</th>
<th>Number of Times Completed</th>
<th>N/A (✓)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Sheets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table 1 - Start Up 204-AR Portable Air Compressor Valve Line-Up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table 2 - Start Up 204-AR Portable Air Compressor Electrical Line-Up</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FWS/OE/Shift Manager** **SEND** the completed records to the Central Shift Office for records retention.

_________________________/ ______________________ / ___________
Signature Print (First and Last) Date

FWS/OE/Shift Manager

The record custodian identified in the Company-Level Record Inventory and Disposition Schedule (RIDS) is responsible for record retention in accordance with TFC-BSM-IRM_DC-C-02.
## Operate 204-AR Air Portable Compressor System

### Table 1 - Start Up 204-AR Portable Air Compressor Valve Line-Up

<table>
<thead>
<tr>
<th>VALVE</th>
<th>LOCATION</th>
<th>POSITION</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR204-IA-V-108</td>
<td>204-AR MECHANICAL ROOM</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-109</td>
<td>204-AR MECHANICAL ROOM</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-125</td>
<td>209-A COMPRESSOR BLDG</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-130</td>
<td>209-A COMPRESSOR BLDG</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-131</td>
<td>209-A COMPRESSOR BLDG</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-132</td>
<td>209-A COMPRESSOR BLDG</td>
<td>CLOSED</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-V-133</td>
<td>209-A COMPRESSOR BLDG</td>
<td>CLOSED</td>
<td></td>
</tr>
</tbody>
</table>

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Signature_________________________/_________________________/_________________________
Operator
Print (First & Last) Date

Signature_________________________/_________________________/_________________________
FWS/Shift Manager /OE
Print (First & Last) Date
## Table 2 - Start Up 204-AR Portable Air Compressor Electrical Line-Up

<table>
<thead>
<tr>
<th>DISCONNECT/BREAKER</th>
<th>LOCATION</th>
<th>POSITION</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>204-AR-1 INSTRUMENT AIR COMPRESSOR</td>
<td>209-A COMPRESSOR BLDG</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>AR204-IA-CMP-002 204-AR BACK-UP AIR COMPRESSOR POWER SWITCH</td>
<td>209-A COMPRESSOR BLDG</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>HENDERSON AIR DRYER TOGGLE SWITCH</td>
<td>209-A COMPRESSOR BLDG</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td>MECHANICAL ROOM</td>
<td>PORTABLE COMPRESSOR PLUGGED INTO ELECTRICAL WALL RECEPTACLE EA ckt 1 OR ENGINEERING APPROVED EQUIVALENT PORTABLE GENERATOR</td>
<td></td>
</tr>
</tbody>
</table>

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Signature / Print (First & Last) / Date  
Operator

Signature / Print (First & Last) / Date  
FWS/Shift Manager /OE
Operate 204-AR Air Portable Compressor System

Figure 1 - 204-AR Air Compressor System Diagram