Start, Shut Down and Operate the 701-AZ Evaporative Cooler, and Heaters

Tank Farm Plant Operating Procedure

Ventilation

USQ # GCX-2

CHANGE HISTORY (≤ LAST 5 REV-MODS)

<table>
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<td>F-1</td>
<td>06/08/2016</td>
<td>Records Change</td>
<td>Changed Records Section to meet Standard</td>
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<td>05/26/2015</td>
<td>Periodic review.</td>
<td>No Changes.</td>
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<tr>
<td>E-0</td>
<td>06/18/2013</td>
<td>All changes are as a result of the periodic review process.</td>
<td>Deleted Section 3.1. Globally changed “room 105” to “building 105”. Deleted old Steps 5.5.1 with WARNING and 5.6.1 with WARNING.</td>
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<td>D-1</td>
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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for operating Evaporative Cooler ECU-1, Exhaust Fan EF-1, and associated room heaters in 241-AZ-701, Generator Building.

1.2 Scope

This procedure applies to equipment associated with Evaporative Cooler ECU-1, Exhaust Fan EF-1 and associated room heaters in 241-AZ-701, Generator Building.

2.0 INFORMATION

None

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Equipment Safety

CAUTION - Before operating ECU-1 there must be sufficient water level in pan to avoid burning up pump.
3.2 Radiation and Contamination Control

Performance of this procedure does not require any entry into Radiological controlled areas.

4.0 PREREQUISITES

4.1 Performance Documents

The following documents may be needed to perform this procedure:

- H-2-131270, Sheet 1
- H-14-021807, Sheet 3
- H-14-030007, Sheet 3 and Sheet 13
5.0 PROCEDURE

NOTE - Sections of this procedure may be performed independently from the rest of the procedure at the direction of the Shift Manager/OE.

5.1 Start Up Evaporative Cooler ECU-1

5.1.1 ENSURE valve HV-AZRW-6A (located in room 101) is CLOSED.

5.1.2 ENSURE valve HV-AZRW-6 (located in room 101) is CLOSED.

5.1.3 POSITION breaker #11 in electrical panel PP-3, (located in building 105) to OFF position.

5.1.4 TURN swamp cooler switch ECU-1 (located on East wall of generator room 100) to OFF position.

5.1.5 ENSURE valve HV-AZRW-6B (located on south side of cooler on roof of 241-AZ-701) is OPEN.
5.1 Start Up Evaporative Cooler ECU-1 (Cont.)

NOTE - ECU-1 pan is located under ECU-1 evaporative cooler, on the roof of 241-AZ-701.

5.1.6 ENSURE drain plug on ECU-1 pan is CLOSED.

5.1.7 POSITION breaker #11 in electrical panel PP-3 (located in building 105) to ON position.

5.1.8 POSITION disconnect ECU-1 Disc, (located on the south side of the evaporative cooler) to ON position.

5.1.9 ENSURE pan is clean before turning on raw water.

5.1.10 OPEN raw water supply valve HV-AZRW-6 (located in room 101).

CAUTION

Before operating ECU-1 there must be sufficient water level in pan to avoid burning up pump.

5.1.11 FILL water pan AND

ENSURE pan float SHUTS OFF at proper water level.

5.1.12 TURN swamp cooler switch (located on East wall of generator room 100) to ON position.

5.1.13 ENSURE pan float valve is maintaining proper water level.
5.2 Shut Down Evaporative Cooler ECU-1

5.2.1 TURN swamp cooler switch (located on East wall of generator room 100) to OFF position.

5.2.2 CLOSE raw water supply valve HV-AZRW-6 (located in room 101).

5.2.3 POSITION breaker #11 in electrical panel PP-3 (located in building 105) to OFF position.

5.2.4 POSITION disconnect (located on the south side of the evaporative cooler) to OFF position.

5.2.5 IF performing winterization

OR

IF directed by Shift Manager, PERFORM the following steps:

NOTE - The evaporative cooler is not labeled.

- The ECU-1 pan is located under the ECU-1 evaporative cooler, which is on the roof of 241-AZ-701.

5.2.5.1 ENSURE valve HV-AZRW-6B (located on South side of cooler on the roof of 241-AZ-701) is OPEN.

5.2.5.2 ENSURE drain plug on ECU-1 pan is OPEN.

5.2.5.3 OPEN valve HV-AZRW-6A (located in room 101) until water is drained from line into a bucket or other container to catch water.
5.3 Start up Room Heaters

NOTE - All breakers are located in electrical panel board PP-3 located in building 105.

5.3.1 POSITION the following breakers to ON position.
- Breaker 13 (unit heater UH-3, located in room 100)
- Breaker 14 (unit heater UH-1, located in room 101)
- Breaker 17 (unit heater UH-2, located in room 100)
- Breaker 18 (unit heater UH-4, located in room 105)

5.3.2 POSITION the following disconnect switches to ON position.
- UH3 disc, (located in room 100)
- UH1 disc, (located in room 101)
- UH2 disc, (located in room 100)
- UH4 disc, (located in room 105)

5.3.3 ADJUST room heater temperature controls as required to maintain room temperatures above 32 °F.
5.4 Shut Down Room Heaters

5.4.1 POSITION the following disconnect switches to OFF position.
- UH3 disc, (located in room 100)
- UH1 disc, (located in room 101)
- UH2 disc, (located in room 100)
- UH4 disc, (located in room 105)

NOTE - All breakers are located in electrical panel board PP-3 located in building 105.

5.4.2 POSITION the following breakers to OFF position.
- Breaker 13 (unit heater UH-3, located in room 100)
- Breaker 14 (unit heater UH-1, located in room 101)
- Breaker 17 (unit heater UH-2, located in room 100)
- Breaker 18 (unit heater UH-4, located in room 105)
5.5 Start Up EF-1 Exhaust Fan

5.5.1 PLACE breaker 23 in panel PP-3 (located in building 105) to ON position.

5.5.2 PLACE Ex. Fan -1 Disc (located on outside South wall of 241-AZ-701) to ON position.
5.6 Shut Down EF-1 Exhaust Fan

5.6.1 PLACE Ex. Fan -1 Disc (located on outside South wall of 241-AZ-701) to OFF position.

5.6.2 PLACE breaker 23 in panel PP-3 (located in building 105) to OFF position.

5.7 Records

No records are generated during the performance of this procedure.

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.