Calibrate Chromalox Model 3283 Temperature Control Switch

Tank Farm Maintenance Procedure

MAINTENANCE

USQ # Routine Maintenance

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<th>CHANGE HISTORY (LAST 5 REV-MODS)</th>
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Type | Document No. | Rev/Mod | Release Date |
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REFERENCE | 6-TCD-567 | E-0      | 06/25/2015   | Page 1 of 5
1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for calibrating Chromalox Model 3283 Temperature Control Switch.

1.2 Scope

This procedure involves temperature switches.

2.0 INFORMATION

NONE

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 If a lock and tag is required during the performance of this procedure, comply in accordance with DOE-0336, Hanford Site Lockout/Tagout Procedure, as applicable.

3.1.2 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 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.

3.2.2 When disconnecting, breaching or opening systems or system components that are currently or previously connected to waste tanks or waste transfer systems;

- Continuous HPT coverage is required
- Pre-job and post-job surveys are required
- A wet rag will be used to contain the breach until radiological verifications have been performed.
4.0 PREREQUISITES

4.1 Special Tools, Equipment and Supplies

The following may be needed to perform this procedure:
- T/C (thermocouple) Simulator
- Digital Multimeter
- Other tools, equipment and supplies as identified by Shift Manager/OE/FWS.

4.2 Field Preparation

4.2.1 IF potential for radiological contamination exists, PERFORM equipment survey prior to beginning maintenance or prior to removal of equipment or component from its installed location.

4.2.2 REQUEST operations to configure system to allow performance of this procedure.
5.0 PROCEDURE

5.1 As-Found Verification

5.1.1 IF performance of any steps in this procedure is not required for procedure completion, ENTER "N/A for those steps not performed" in the appropriate data sheet signoff space.

NOTE - Switch temperature operation point may be confirmed by the use of digital multimeter, interlock, or annunciator.

5.1.2 APPLY test inputs specified by Data Sheet AND RECORD value in As-Found section of Data Sheet.

5.1.3 IF instrument As-Found values are within the tolerance range specified by the Data Sheet, and no adjustments are desired, RECORD as-found values in As-Left column AND GO TO Section 5.3.

5.1.4 IF instrument As-Found values are out of tolerance specified by the Data Sheet AND adjustments are required, GO TO Section 5.2.

5.2 Calibrate Temperature Control Switch

5.2.1 ADJUST switch/controller to operate at setpoint per Data Sheet.

5.2.2 RECORD As-Left data on Data Sheet.
5.3 Restoration

5.3.1 DISCONNECT AND REMOVE Test Equipment.
5.3.2 PLACE equipment in original configuration.
5.3.3 CLEAR OR RESET all alarms as applicable.
5.3.4 REPORT all deficiencies, or cause of early failure to FWS for corrective action.
5.3.5 RECORD all inspection activities and/or deficiencies on Data Sheet.
5.3.6 INFORM FWS and Operations Management calibration is complete.
5.3.7 RETURN work package with Data Sheet to FWS.

5.4 Acceptance Criteria

Acceptance Criteria has been met when Steps in this procedure have been satisfactorily performed and As-Left values meet the specifications and tolerance(s) per the Data Sheet.

5.5 Review

5.5.1 INFORM FWS test is complete.
5.5.2 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.

5.6 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.