Seal Water Level Switch

Tank Farm Maintenance Procedure  Effluent Treatment Facility

USQ Not Required – ETF is a <Hazard Category 3 Radiological Facility

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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides a safe, uniform method of calibrating the seal water system level switch at the ETF.

1.2 Scope

This procedure provides calibration and restoration instructions.

2.0 INFORMATION

None.

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Radiation and Contamination Control

3.1.1 Work in radiological areas will be performed using a radiological work permit following review by Radiological Control per ALARA Work Planning procedure, TFC-ESHQ-RP_RWP-C-03.

3.2 Environmental Compliance

3.2.1 In the event of a spill/leak/release, notify the SOM/FWS and respond per ETF-ERP-85B-003, Emergency Spill or Release at ETF.

4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies

The following supplies may be needed to perform this procedure:

- Calibrated pressure source
- Continuity tester.

4.2 Performance Documents

The following documents may be needed to perform this procedure:

5.0 PROCEDURE

NOTE - Figure 1 depicts the seal water level switch.

5.1 Calibration

5.1.1 ISOLATE instrument from process.

5.1.2 REMOVE switch cover.

5.1.3 CONNECT pressure source to switch input.

5.1.4 CONNECT continuity tester to yellow and blue wires.

5.1.5 APPLY pressure per PM/S data sheet AND RECORD as-found pressure reading.

5.1.6 IF as-found values are not within specified tolerance per data sheet, GO TO Step 5.1.7,

OR

IF as-found values are within specified tolerance, but deemed marginal, and optimization is desired, GO TO Step 5.1.7,

OR

IF as-found reading is within tolerance per PM/S data sheet and no adjustments are required, RECORD as-found readings in as-left portion of data sheet AND

GO TO Section 5.2, Restoration.

5.1.7 APPLY pressure per PM/S data sheet.

5.1.8 LOOSEN switch plate lock screw.

NOTE - Switch plate should move clockwise to set point. Moving switch plate counterclockwise increases the switch set point.

5.1.9 TURN micro-adjust knob until switch actuates.

5.1.10 TIGHTEN switch plate lock screw.

5.1.11 RECHECK set point AND

REPEAT Steps 5.1.7 through 5.1.10 until values are acceptable.
5.1 Calibration (Cont.)

5.1.12 **RECORD** as-left reading on PM/S data sheet **AND**

**REMOVE** pressure from switch.

5.2 Restoration

5.2.1 **REMOVE** pressure source and continuity tester from switch.

5.2.2 **REPLACE** switch cover.

5.2.3 **RESTORE** instrument to process.

5.2.4 **RESTORE** to as-found conditions.

5.2.5 **INFORM** SOM test is complete and instrument/equipment/system may be returned to service.

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.

5.5 Records

This procedure is performed within a work package, as such, the procedure in its entirety will be maintained as a record per the Work Control process.

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 - Models 321 and 322 Blind DP Switches Internal Components