PMV Rotary Positioner P-2000, P-2020

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 for calibration of PMV Model P-2000 and P-2020 rotary positioners.

1.2 Scope

This procedure provides instructions for calibrating the PMV Model P-2000 and P-2020 rotary positioners.

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

NOTE - Measuring and Test Equipment used to collect acceptance criteria data during performance of this procedure shall meet the following requirements:

- Be within its current calibration cycle as evidenced by an affixed calibration label
- Be capable of desired range
- Accuracy is equal to or greater than M&TE tolerance specified on PM/S data sheet or is at least four times greater than specified device tolerance.

The following supplies may be needed to perform this procedure:

- Calibrated milliamp source, range 0 to 20 mA.
5.0 PROCEDURE

5.1 Initial Set Up and Calibration Check

5.1.1 REMOVE front cover.

5.1.2 PRESS OUT one end of frame from slot in main frame to remove side frame.

5.1.3 CONNECT M&TE.

5.2 As-Found Data

5.2.1 VARY input per PM/S data sheet AND

RECORD as-found values on data sheet.

5.2.2 IF as-found values are not within specified tolerance per data sheet, GO TO Section 5.3,

OR

IF as-found values are within specified tolerance, but deemed marginal, and optimization is desired, GO TO Section 5.3,

OR

IF as-found values are within specified tolerance, RECORD as-found values in as-left column of data sheet AND

GO TO Section 5.4.
5.3 Calibration

5.3.1 ENSURE cam is free of dirt or other materials.

NOTE - Turning Zero setting screw to right will move actuator in direction of decreasing signal.

- Should Zero adjustment reach limit, other spring mounting on spring guide is available.

5.3.2 APPLY minimum input per PM/S data sheet AND

ADJUST Zero until actuator is in position per data sheet.

NOTE - If turning angle of actuator is too large, downwards rotation of range adjust screw will reduce actuator travel.

5.3.3 APPLY maximum input per PM/S data sheet AND

ADJUST Span until actuator is in position per data sheet.

5.3.4 REPEAT Steps 5.3.2 and 5.3.3 until both values are within tolerance.

5.3.5 VARY input per PM/S data sheet AND

RECORD as-left values on data sheet.

5.4 Restoration

5.4.1 RESTORE to as-found conditions.

5.4.2 INFORM SOM test is complete and instrument/equipment/system be returned to service.

5.5 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).
5.6 Review

5.6.1 INFORM FWS test is complete.

5.6.2 (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.

5.7 Records

The performance of this procedure generates no records. However PM/S 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.