Flush RC-1 Monitoring Pig

Tank Farm Plant Operating Procedure

USQ # EV-17-0437-S, Rev. 4

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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for flushing the monitoring pig at the 242-A Evaporator.

1.2 Scope

This procedure involves valving and piping for the RC1 Monitoring Pig.

2.0 INFORMATION

None

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 The hazards associated with the performance of this procedure have been determined to be addressed by the GHA.

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 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 ALARA work planning procedure TFC-ESHQ-RP_RWP-C-03.
4.0 PREREQUISITES

4.1 Special Tools, Equipment and Supplies

The following supplies may be needed to perform this procedure:
- Clean plastic container (at least 1-gallon in size)
- Other tools, equipment and supplies as identified by Shift Manager/OE/FWS.

4.2 Performance Documents

The following documents may be needed to perform this procedure:
- H-2-98993, P&ID Steam Condensate System
- TO-100-052, Perform Waste Generation, Segregation, Accumulation and Clean-up.
5.0 PROCEDURE

5.1 Flush RC-1 Monitoring Pig

NOTE - See Figure 1 for valving diagram.

5.1.1 SET RC1-PIG (G14/6, F30) STEAM CONDSATE SAMPLE PIG to FLUSH.

5.1.2 CONFIRM RC1-PIG status indicates FLUSHING.

5.1.3 FILL a clean plastic container (at least 1-gallon in size) with raw water.

5.1.4 CLOSE valve RC1-18, located at RC1 sample pig.

5.1.5 ENSURE valve RC1-17 is CLOSED.

5.1.6 ENSURE valve RC1-35 is OPEN.

5.1.7 ENSURE valve RC1-36 is OPEN.

5.1.8 SLOWLY POUR raw water from plastic container into sample flush funnel.

5.1.9 MONITOR RI-RC1-1 (G14, F30) STEAM CONDSATE SAMPLER RADN for sample pig radiation levels as the RC1 pig is being flushed.

5.1.10 IF radiation levels need further reduction, REPEAT Steps 5.1.3 through 5.1.9 as often as necessary to flush the system and adequately reduce radiation levels shown on RI-RC1-1 (G14, F30) STEAM CONDSATE SAMPLER RADN, as directed by Shift Manager.

5.1.11 AFTER flushing has been completed satisfactorily, OPEN valve RC1-18.

5.1.11.1 CLOSE valve RC1-35.

5.1.11.2 CLOSE valve RC1-36.

5.1.12 CLOSE valve RC1-18.

5.1.13 SET RC1-PIG (G14/6, F30) STEAM CONDSATE SAMPLE PIG to NO FLUSH.

5.1.14 CONFIRM RC1-PIG status indicates MONTRING.

5.1.15 ENSURE valve RC1-17 is OPEN.

5.1.16 ENSURE valve RC1-18 is OPEN.
5.2 Records

No records are generated during the performance of this procedure.
Flush RC-1 Monitoring Pig

Figure 1 - RC-1 Monitoring Pig Valving Diagram