Ownership matrix

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1.0 PURPOSE AND SCOPE

This document provides guidance for review and evaluation of the data obtained by the High Resolution Resistivity (HRR) equipment used for leak detection during specified single-shell tank (SST) waste retrieval operations. This procedure implements the methodology and requirements in RPP-32477, “High Resolution Resistivity Leak Detection Data Processing and Evaluation Methods and Requirements.”

The frequency for HRR data review and associated operational requirements is provided in TFC-OPS-OPER-C-48.

2.0 IMPLEMENTATION

This document is effective on the date shown in the header.

3.0 RESPONSIBILITIES

Responsibilities are contained within Section 4.0.

4.0 REQUIREMENTS

4.1 General

1. All HRR Data Reviewers shall be trained to the data review process in RPP-32477.

2. All HRR Data Evaluators shall be HRR Data Reviewers and be trained to the anomaly evaluation process in RPP-32477.

3. The SST Retrieval Leak Detection Engineer shall maintain a log of all anomaly evaluation numbers and act as network administrator for all computers used for HRR leak detection.

4.2 HRR Leak Detection Data Review

HRR Data Reviewer

1. When an HRR leak detection data review is required, log on to an HRR leak detection computer.

2. Enter the data specified on the “HRR Leak Detection Review Data Sheet,” Site Form A-6004-465 and follow any corresponding instructions on the data sheet.

HRR Data Evaluator

3. Fill out block “9” line “d” once an anomaly is noted. The Data Evaluator obtains the original of the data sheet or, if not readily available, fills out a new data sheet down to line d.

a. Check line d.1 if the anomaly doesn’t need to be evaluated. This mark also indicates that no leak is detected.

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1 High Resolution Resistivity is a registered trademark of Hydrogeophysics, Inc., Richland, Washington.
b. Check line d.2 if there is no leak detected but the anomaly should be documented to provide a historical record, for any reason.

c. Check line d.3 if the anomaly needs to be evaluated to ascertain if an unexplained anomaly exists.

d. Sign and date line d.4. If line d.3 was checked, proceed to Step 4.3.

Operations Engineer

4. Proceed as required by TFC-OPS-OPER-C-48 for response to inoperable HRR leak detection system.

5. Proceed as required by TFC-OPS-OPER-C-48 for response to an HRR anomaly.

4.3 HRR Data Anomaly Review

HRR Data Evaluator

1. Obtain an anomaly evaluation number from the HRR Data Anomaly log book.

2. Write the anomaly evaluation number in Block 10 of the HRR Leak Detection Review Data Sheet where the anomaly was identified.

3. Perform an HRR data anomaly evaluation as described in RPP-32477, Section 6.3, and document the following on the “HRR Anomaly Evaluation Record” (A-6004-466):

   a. Block 1 – Anomaly Evaluation Number
   b. Block 2 – Tank number
   c. Block 3 - Data and time anomaly identified (obtain from HRR Leak Detection Review Data Sheet)
   d. Block 4 – Enter in Block 4 the reason for the anomaly. Provide enough information so the reader understands fully why an anomaly is deemed to exist, but do not do any evaluation in this block.
   e. Block 5 - Address, as applicable, criteria 1 through 6 in RPP-32477, Section 6.3, to the WTT data. Include, as needed, WTT data plots that explain the anomaly.
   f. Block 6 - Address, as applicable, criteria 1, 2 and 7 in RPP-32477, Section 6.3, to WTW and/or WTS data. Include, as applicable, WTW and/or WTS data plots that explain the anomaly.
   g. Block 7 – if this is not an unexplained anomaly, justify this conclusion based upon the discussion in Block 6 and/or Block 7.

   NOTE: Similar occurrences over more than one day may be combined into a single anomaly if it is apparent to the HRR Data Evaluator that the recurrences result from the same cause.
Include any other available information necessary that can help justify the decision that this is not an unexplained anomaly. If this is an unexplained anomaly, line through and N/A this section.

If Block 9 d. line 3 of the HRR Leak Detection Review Data Sheet was checked and the anomaly evaluation is not completed within 24 hours of the time it was identified, notify the Operations Engineer and the Production Operations Shift Manager of the need to follow TFC-OPS-OPER-C-48 for response to HRR data anomalies lasting longer than 24 hours until the HRR data anomaly is resolved.

h. Block 8 – Check the appropriate line as to whether there is not, or there is, an unexplained anomaly.

1) If this is not an unexplained anomaly go to Block 9
2) If this is an unexplained anomaly proceed to Step 4.4.

i. Block 9:

1) Sign and date form

2) Inform Operations Engineer (and the Production Operations Shift Manager if the review took >24 hours) that the evaluation is complete and there is no unexplained HRR data anomaly.

3) Submit completed Anomaly Evaluation Record to the SST Leak Detection Engineer.

### 4.4 Unexplained HRR Data Anomaly

<table>
<thead>
<tr>
<th>HRR Data Evaluator</th>
<th>1. If an unexplained HRR data anomaly is judged to exist, notify the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Production Operations Shift Manager</td>
</tr>
<tr>
<td></td>
<td>• SST Retrievals Operations Manager</td>
</tr>
<tr>
<td></td>
<td>• SST Retrievals Operations Engineer</td>
</tr>
<tr>
<td></td>
<td>• Process Modeling Manager.</td>
</tr>
</tbody>
</table>

Enter in Block 8 the date and time the Shift Manager is notified.

2. Prepare a Problem Evaluation Report per TFC-ESHQ-Q_C-C-01 and enter the PER number in Block 8.

3. Sign and date the Anomaly Evaluation Record in Block 9 and return it to the SST Leak Detection Engineer.

| SST Retrievals Operations Engineer | 4. Proceed as required by TFC-OPS-OPER-C-48 for an unexplained HRR data anomaly. |
5. Proceed to TFC-ENG-CHEM-D-42 and initiate the tank leak assessment process.

4.5 HRR Data Retention

SST Leak Detection Engineer 1. On a nominal monthly basis, ensure that all HRR data review sheets, HRR anomaly evaluation records, and all HRR raw data are transferred to IDMS for storage or retained locally until IDMS storage is implemented.

5.0 DEFINITIONS

Designated Person. A person trained and qualified to obtain HRR data.

HRR Data Anomaly. An HRR data anomaly (anomaly) is a change in the HRR data for one or more electrode data pairs that, when reviewed per the process in this procedure:

- Results in a drywell-to-tank (WTT) Mean exceedance value ≥50%, or,
- Results in a drywell-to-drywell (WTW) Mean exceedance value ≥30%, or,
- Is deemed to be an anomaly by the HRR Data Reviewer based upon manual review of processed or raw data.

HRR DataEvaluator. An HRR Data Reviewer trained and qualified to perform HRR data anomaly evaluations as described in RPP-32477.

HRR Data Reviewer. A person trained and qualified to review HRR data for leak detection as described in RPP-32477. The SST Retrievals Operations Engineer should be qualified as an HRR Data Reviewer.

SST Leak Detection Engineer. The engineer assigned engineering responsibility for the HRR systems.

Unexplained HRR Data Anomaly. An HRR data anomaly that has been evaluated as described in RPP-32477 and documented as requiring entry into the tank leak assessment process in procedure TFC-ENG-CHEM-D-42.

6.0 RECORDS

The following records are generated during the performance of this procedure:

- HRR Raw Data
- HRR Review Sheets (A-6004-465)
- HRR Anomaly Evaluation Records (A-6004-466)
- Training Completion Documentation.

The records 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.
7.0 REFERENCES

1. RPP-32477, “High Resolution Resistivity Leak Detection Data Processing and Evaluation Methods and Requirements.”

2. RPP-32478, “High Resolution Resistivity Leak Detection Equipment Description.”

3. TFC-BSM-IRM_DC-C-02, “Records Management.”


5. TFC-ESHQ-Q_C-C-01, “Problem Evaluation Request.”