UST Inspector Training Webinar
Tank and Line Tightness Testing

How NWGLDE evaluates these methods

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National Work Group On Leak Detection Evaluations (NWGLDE)

- Background of NWGLDE
- Third party evaluation per protocol
- NWGLDE review of evaluation
- NWGLDE listing of test method
National Work Group On Leak Detection Evaluations (NWGLDE)

- Who are we?
- What is our mission?
- Website Link: http://www.nwglde.org
Evaluation Process

- Independent 3rd Party Tester
- Appropriate Test Method Protocol
- NWGLDE Review of 3rd Party Report
- NWGLDE Listing of Test Method
Leak Rate

- Probability of Detection of at least 95%
- Probability of False Alarm not greater than 5%
Leak Threshold (what it means)

- Statistically Determined Minimum Detectable Leak Rate
- Probability of Detection = 95%
- Probability of False Alarm = 5%
Max Capacity

- Maximum Effective Tank Capacity
- Maximum Effective Pipeline Capacity
**Example Listing**

**ACME Industries**  
**Wiley Coyote Model 1**  

**VOLUMETRIC TANK TIGHTNESS TEST METHOD (UNDERFILL)**  

<table>
<thead>
<tr>
<th>Certification</th>
<th>Leak rate of 0.1 gph with PD = 98.1% and PFA = 1.9%.</th>
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</thead>
<tbody>
<tr>
<td>Leak Threshold</td>
<td>0.05 gph. A tank system should not be declared tight if the test results indicate a loss or gain that exceeds this threshold.</td>
</tr>
<tr>
<td>Applicability</td>
<td>Gasoline, diesel, aviation fuel.</td>
</tr>
<tr>
<td>Tank Capacity</td>
<td>Maximum of 35,000 gallons.</td>
</tr>
<tr>
<td>Waiting Time</td>
<td>Minimum of 2 hours between delivery and data collection.</td>
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<tr>
<td></td>
<td>Minimum of 30 minutes between dispensing and data collection.</td>
</tr>
<tr>
<td>Test Period</td>
<td>Minimum of 4 hours. There must be no dispensing or delivery during test.</td>
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<tr>
<td>Temperature</td>
<td>No affect.</td>
</tr>
<tr>
<td>Groundwater</td>
<td>Depth to groundwater in tank excavation backfill must be determined. If groundwater is above bottom of tank, product level must provide a minimum net pressure differential of 2 psi.</td>
</tr>
<tr>
<td>Calibration</td>
<td>Load cell must be calibrated before each test</td>
</tr>
<tr>
<td>Comments</td>
<td>Not evaluated using manifolded tank systems. EPA leak detection regulations require testing of the portion of the tank system which routinely contains product.</td>
</tr>
</tbody>
</table>

* **ACME Industries is no longer in business.**

**ACME Industries**  
**Evaluator: Jack Sprat Associates**  
**Contact Info & Date of Evaluation**
What current test methods are listed by NWGLDE?

- Listings by Vendor
- Listings by Testing Method

http://www.nwglde.org
Summary

- NWGLDE Function
- NWGLDE Listing

http://www.nwglde.org