



# UST Inspector Training Webinar Tank and Line Tightness Testing

How NWGLDE evaluates these methods

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The logo for the National Work Group On Leak Detection Evaluations (NWGLDE) is displayed in a stylized, metallic font. The letters are arranged in a slightly curved line, with a blue and yellow gradient background behind them. The letters are white with a blue outline and a yellow shadow, giving them a three-dimensional appearance.

NWGLDE

# 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 3<sup>rd</sup> Party Tester
- Appropriate Test Method Protocol
- NWGLDE Review of 3<sup>rd</sup> Party Report
- NWGLDE Listing of Test Method

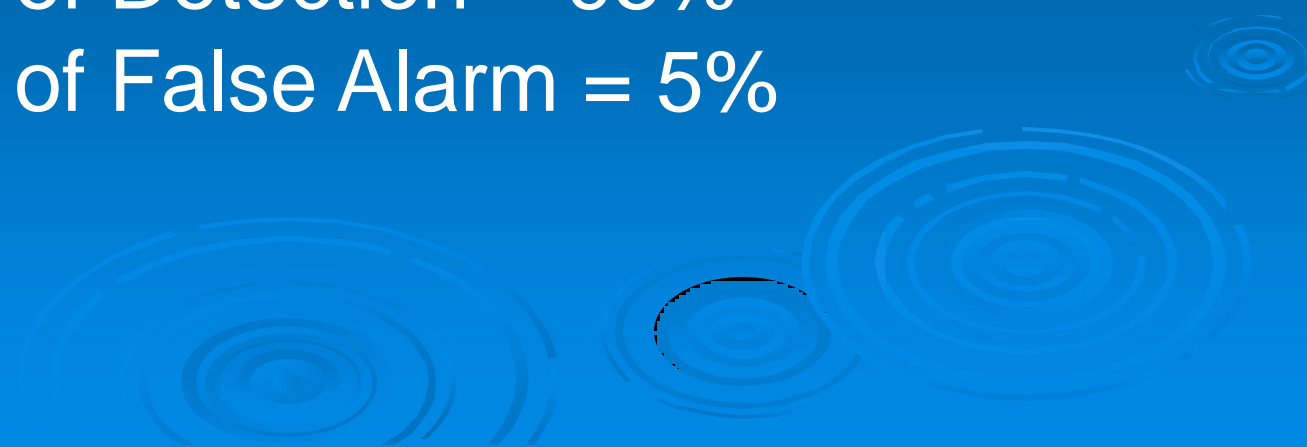
# Leak Rate

- 40 CFR Part 280 Subpart D – Release Detection Standards
- 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)

**ACME Industries no longer supports the use of this method \***

<b>Certification</b>	Leak rate of 0.1 gph with PD = 98.1% and PFA = 1.9%.
<b>Leak Threshold</b>	0.05 gph. A tank system should not be declared tight if the test results indicate a loss or gain that exceeds this threshold.
<b>Applicability</b>	Gasoline, diesel, aviation fuel.
<b>Tank Capacity</b>	Maximum of 35,000 gallons.
<b>Waiting Time</b>	Minimum of 2 hours between delivery and data collection. Minimum of 30 minutes between dispensing and data collection.
<b>Test Period</b>	Minimum of 4 hours. There must be no dispensing or delivery during test.
<b>Temperature</b>	No affect.
<b>Groundwater</b>	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.
<b>Calibration</b>	Load cell must be calibrated before each test
<b>Comments</b>	Not evaluated using manifolded tank systems. EPA leak detection regulations require testing of the portion of the tank system which routinely contains product.

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

ACME Industries  
Contact Info

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>

The logo for NWGLDE is positioned at the top right of the slide. It features the letters 'NWGLDE' in a stylized, metallic, 3D font. The background of the logo is a globe showing the Americas, with a blue and yellow color scheme.

NWGLDE

# Summary

- NWGLDE Function
- NWGLDE Listing

<http://www.nwglde.org>