SIRA (S2) Statistical Inventory Analysis, Version 5.2

STATISTICAL INVENTORY RECONCILIATION TEST METHOD (QUANTITATIVE)

Certification

- Leak rate of 0.1 gph with PD = 99.9% and PFA = 0.1%
- "If a method meets the requirement for detecting a leak rate of 0.1 gph, it will meet the requirement for 0.2 gph", according to "Standard Test Procedures for Evaluating Leak Detection Methods: Statistical Inventory Reconciliation Methods", EPA/530/UST-90/007, June 1990, Section 7.2.3, page 30.

Leak Threshold

- 0.05 gph. This leak threshold is for evaluation purposes only.
- A tank system should not be declared tight if the test result indicates a loss or gain that equals or exceeds the leak threshold calculated from the data set. This leak threshold may be different than the above leak threshold.

Applicability

- Gasoline, diesel.
- Other more viscous liquids may be tested after consultation with the vendor.

Tank Capacity

- Maximum of 36,000 gallons for single tank.
- Maximum of 36,000 gallons cumulative capacity for manifolded tank systems with no more than 3 tanks in system.

Data Requirement

- Minimum of 30 days of product level and flow through data.

Comments

- 50% of data sets evaluated were from manifolded tanks systems.
- 82 data sets were submitted for evaluation.
- All were analyzed with conclusive results.
- Median monthly throughput of tanks evaluated was 52,207 gallons.
- Median monthly throughput of separate manifolded tank system evaluation was 14,944 gallons. Leak rates of 0.05, 0.10, and 0.20 gph were used in evaluation.
- All manifolded tank system data sets evaluated were supplied by evaluator.
- A portion of the data sets drawn from the WRA Statistical Inventory Analysis Version 5.1 evaluation for tanks that were not manifolded, were provided by the vendor. Visit **www.nwglde.org** for more information.

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