Titan Cloud

Monitor / Redone

STATISTICAL INVENTORY RECONCILIATION TEST METHOD (QUANTITATIVE)

Certification   Leak rate of 0.1 gph with PD > 99.6% and PFA < 0.4% for both single and manifolded tank systems.
"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 <u>data set</u>. This leak threshold may be different than the above leak thresholds.

Applicability   Gasoline, diesel, kerosene.

Tank Capacity   Maximum of 33,675 gallons for single tanks.
Maximum of 60,000 gallons cumulative capacity for manifolded tank systems with no more than 5 tanks in system.

Data Requirement   Minimum of 26 days of product level and throughput data.

Comments   Inventory data for manifolded tank systems was prepared according to the EPA protocol and submitted to vendor for analysis. Single tank system inventory data was submitted by vendor to evaluator who adjusted data and returned to vendor for analysis.
Water ingress or gains are evaluated on an individual basis by a certified SIR analyst.
73% of data sets were from manifolded tank systems.
Of 56 data sets submitted for evaluation, all were analyzed with conclusive results.
Median monthly throughput of tanks evaluated was 18,459 gallons.
Leak rates of 0.05, 0.1, and 0.2 gph were used in evaluation.
Data is sent to a central location and analyzed by a certified SIR analyst.

Titan Cloud
4015 travis Dr, Suite 211 #1787 .
Nashville, TN 37211
Tel: (615) 372-6000
E-mail: roi@titancloud.com
URL:

Evaluator: Ken Wilcox Associates
Tel: (816) 443-2494
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