

TotalSIR

TotalSIR Version 1.0

STATISTICAL INVENTORY RECONCILIATION TEST METHOD (QUANTITATIVE)

- Certification** Leak rate of 0.2 gph with PD > 99.9% and PFA < 0.1% for leak threshold of 0.1 gph.
Leak rate of 0.2 gph with PD > 97.2% and PFA < 0.1% for leak threshold of 0.16 gph.
- Leak Threshold** 0.1 and 0.16 gph for leak rate of 0.2 gph.
These leak thresholds are 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 thresholds.
- Applicability** Gasoline, diesel, kerosene.
Other more viscous liquids may be tested after consultation with the vendor.
- Tank Capacity** Maximum of 45,000 gallons for single tanks.
Maximum of 45,000 gallons cumulative capacity for manifolded tank systems with no more than 4 tanks in system.
- Data Requirement** Minimum of 23 days of product level and flow through data.
- System Features** Method of data analysis that system employs, and was used during evaluation process, is exclusive of any external control by vendor. System consists of a fully automated software package with embedded algorithms for conducting leak detection testing. Consequently, third party evaluation procedure demonstrated that system can be used in-house with no requirement for direct vendor participation.
- Evaluation Features** This system was tested for in-house use.
Vendor, with evaluator present, analyzed required data and performed evaluation using program disk only.

Results were presented to evaluator directly from the computer without additional vendor involvement.

Comments

Gains (water ingress) are investigated using current and previous month raw inventory data.
73% of data sets were from manifolded tank systems.
Of 41 data sets submitted for evaluation, 4 were inconclusive.
Median monthly throughput of tanks evaluated was 22,370 gallons.
Leak rates of 0.05, 0.1, and 0.2 gph were used in evaluation.
Data sets evaluated were supplied by evaluator.

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Dates of Evaluation: 04/07/93,
07/18/95, 06/16/00,
08/27/01



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