

**Precision Tank Service, Inc.**

TotalSir Version 1.0

**STATISTICAL INVENTORY RECONCILIATION TEST METHOD (QUANTITATIVE)**

- Certification:** Leak rate of 0.2 gph with  $P_D > 99.9\%$  and  $P_{FA} < 0.1\%$  for leak threshold of 0.1 gph.  
Leak rate of 0.2 gph with  $P_D > 97.2\%$  and  $P_{FA} < 0.1\%$  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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Date of Evaluation: 04/07/93, 07/18/95,  
06/16/00, 08/27/01