



Approval # 20010030

Environmental & Regulatory Services Division
Bureau of Petroleum Products and Tanks
201 West Washington Avenue
P.O. Box 7837
Madison, WI 53707-7837

Wisconsin COMM 10 Material Approval

Equipment: ACURITE Pipeline Tester

Manufacturer: Training and Services Corp.
501 Bains St., Suite 113
Brookshire, TX 77423

Expiration of Approval: December 31, 2003

SCOPE OF EVALUATION

The ACURITE Pipeline Tester; single and multiple line tester, expanded operation range version, manufactured by Training and Services Corporation, has been evaluated in accordance with **s. Comm 10.61(3)** of the current edition of the Wisconsin Administrative Flammable and Combustible Liquids Code.

This evaluation summary is condensed to provide the specific installation, application and operation parameters necessary to maintain the subject systems in compliance with the Wisconsin Administrative Code – Comm 10.

DESCRIPTION AND USE

The ACURITE system may be used for pipes containing gasoline, diesel fuel, aviation fuel, fuel oil #4, and liquid chemicals that do not attack aluminum. The ACURITE system uses a single test to determine whether a pipeline is leaking. The system declares a leak if the output of the measurement system exceeds a threshold of 0.01 gallon per hour.

TESTS AND RESULTS

The performance of the ACURITE pipeline tester, single and multiple line tester, expanded operation range, was determined by Richard E. Walker, Ph.D., using the EPA protocol for evaluation of pipeline leak detection systems. When used as a line tightness test, the systems are capable of detecting a 0.1 gallon per hour leak at 20 psi with a probability of false alarm (P_{FA}) of 0 percent and a probability of detection (P_D) of 100 percent.

The multiple line tester uses the same basic hardware and consistent test pressure, but contains multiple cylinders. It is manufactured by Hutchinson Hayes International, Inc., P.O. Box 2965, Houston, Texas, 77252.

LIMITATIONS / CONDITIONS OF APPROVAL

- The ACURITE Pipeline Tester is approved for use on pipeline systems for underground storage tank facilities that contain petroleum or other chemical products. It is approved for use on both rigid and flexible piping.
- The operating instructions and test procedures specified by Training and Services Corp., shall be used to conduct all tests.
- **Mechanical line leak detectors shall be removed from the pipeline before testing.**
- **This test shall not be used if trapped vapor is present in the system.** There is a special test procedure to check the pipeline for trapped vapor that must be performed prior to the pipeline test.
- Critical performance parameters for the ACURITE Pipeline Tester:

Parameter	Value
Test Line Pressure	150% of normal operating pressure
Maximum Test Line Pressure	50 psi
Maximum Test Line Size	6 in.
Total maximum allowable volume of product in any test pipeline	150 gallons or less
Minimum waiting period between last product dispensing and start of data collection	30 minutes
Minimum time for data collection	30 minutes

This approval will be valid through December 31, 2003, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Reviewed by: _____

Greg Bareta, P.E.
Engineering Consultant
Bureau of Petroleum Products and Tanks

Approved by: _____ Date: _____