



Annual Functionality Verification

BUREAU OF WEIGHTS AND MEASURES

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RESOURCES

Wis. Admin. Code ATCP 93
http://docs.legis.wisconsin.gov/code/admin_code/atcp/090/93

Storage Tanks Website
https://datcp.wi.gov/Pages/Programs_Services/PetroleumHazStorageTanks.aspx

Form TR-WM-139
<https://datcp.wi.gov/Documents/TR-WM-139.pdf>

Required annual testing

Wisconsin Administrative Code § [ATCP 93.510\(2\)](#) requires all federally regulated underground tank systems and fuel oil underground tank systems greater than 1,100 gallon capacity, without documented biannual precision tightness tests, to be tested and certified annually to confirm proper function of tank system equipment. Testing the tank equipment annually can extend the life of system components, and may help prevent future costly repairs or releases.

The following equipment must be verified by a qualified person every 12 months for the same degree of operability and capability as when the equipment was newly installed:

- Equipment for measuring product levels that is used for manual tank gauging or statistical inventory reconciliation.
- Automatic tank gauging equipment used for monthly monitoring, statistical inventory reconciliation or precision tightness testing.
- Interstitial monitoring equipment.
- Sensors used to detect leaks in tanks, lines or sumps.

A “qualified person” is a person certified by the equipment manufacturer as being trained in the operational characteristics of the equipment. If the technician is conducting a precision test with the annual functionality verification, that technician must be credentialed with the department as a Tightness Tester.

Technician certification requirements

Technicians performing the annual functionality verification must hold the respective certification from the equipment manufacturer(s), as required by Wis. Admin. Code § ATCP 93.510(2)(b). They do not need to be ATCP 93 credentialed as an installer or a tightness tester. Two exceptions to certification requirements:

- If the technician is combining a precision test with the annual calibration verification, the technician must be credentialed as a Tightness Tester.
- Technicians performing the annual verification of MLLD/ELLD must follow the procedures in Wis. Admin. Code § ATCP 93.515(8)(d), and the technician must have no financial interest in the facility.

The Underground Tank System Functionality Verification form

The TR-WM-139 Underground Tank System Functionality Verification form (formerly ERS-10778) provides a comprehensive method of tracking this required annual testing, and also satisfies all of the requirements of NFPA 30, 30A, and PEI 400, 500, 900 and 1200. The form must be maintained onsite, which serves as a record for the owner and department inspector that all of the required tests have been performed, and that all of the respective tank system components are functional.

For additional help on completing the TR-WM-139 form, download the Annual Underground Tank System Functionality Verification Guide from our website: https://datcp.wi.gov/Pages/Programs_Services/PetroleumHazStorageTanksForms.aspx

If deficiencies are found during testing

If any deficiencies are found with equipment which has a direct relationship to release prevention/detection, fire prevention, or environmental and/or human safety, the deficiency must be noted on the first page of form TR-WM-139, whether it is corrected immediately or not. This informs both the owner and the department of deficiencies and possible corrections. It is then the responsibility of the owner to have the deficiencies corrected right away, and to ensure that all system equipment and components are consistently maintained to function to the manufacturer's original specifications.

If any equipment was not tested, not verified as functional, or if there were deficiencies that were not immediately corrected, the service company must email Page 1 of the form to the department:

DATCPWeightsandMeasures@wisconsin.gov

Removing drop tubes/other components

If a tank is equipped with a drop tube shutoff valve, the drop tube must be tested in accordance with PEI (Petroleum Equipment Institute) standards and manufacturer instructions. Drop tubes do not have to be removed from the tank if they are designed to be tested in place by the manufacturer and the manufacturer provides a test procedure that includes verification of operation and shut off level at 95% tank capacity. Drop tubes in remote fill systems without tank top access do not have to be removed.

Removing other components

Ultrasonic and capacitance leak detection probes do not need to be removed to be tested. All other probes must be removed from tanks and sumps to be properly cleaned, inspected, and tested for functionality per the manufacturer's instructions. This includes tank, pipe, and sump sensors.