



STI SP001 Inspection Requirements for Aboveground Storage Tanks

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

STI SP001
<https://www.steeltank.com/SP001StandardFAQs/tabid/463/Default.aspx>

40 CFR 112
<https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.1.112>

Form TR-WM-128
<https://datcp.wi.gov/Documents/TR-WM-128.pdf>

Form TR-WM-135
<https://datcp.wi.gov/Documents/TR-WM-135.pdf>

Wisconsin Administrative Code § [ATCP 93.440\(3\)](#) requires that owners or operators of all shop-built metallic aboveground fixed storage tanks have the tanks inspected in accordance with [STI SP001](#) with the exception of:

- Tanks with a capacity of less than 5,000 gallons
- Heating oil tanks or tanks at farms and construction projects

An alternate inspection procedure that provides equivalent environmental and fire safety protection may be used if accepted in writing by the department, or if developed by the certifying engineer for a facility in accordance with the federal spill prevention control and countermeasure regulations in [40 CFR 112](#).

STI SP001 Inspection Intervals

| Tank Capacity (Gallons) | Monthly Inspections | Annual Inspections | 20 Year Inspections |
|-------------------------|---------------------|--------------------|---------------------|
| 0 – 1,000 | ✓ | ✓ | |
| 1,101 – 5,000 | ✓ | ✓ | |
| 5,001 – 30,000 | ✓ | ✓ | ✓ |
| 30,001 – 50,000 | ✓ | ✓ | ✓ |

- Monthly and annual inspections may be conducted by any person knowledgeable of storage facility operations, the type of AST and its associated components, and characteristics of the liquid fuel stored in the tank
 - Monthly inspections are not required for seasonal-use tanks during periods when the tank does not contain a regulated substance
- 20 year inspections must be conducted by a person holding one of the following certifications:
 - Steel Tank Institute (STI) SP001 AST Tank System Inspector
 - American Petroleum Institute (API) Standard 653 Authorized Inspector with STI SP001 Adjunct Certification

*No DATCP technician or company certification is required

A list of Steel Tank Institute Certified Inspectors can be found here:
<https://members.stispfa.org/sp001-aboveground-tank-system-inspector>
- The 20 year inspection report format is up to the individual STI inspector but it must:
 - Address all of the required inspection points, and
 - Provide recommendations for continued service, repairs, and next inspection intervals.

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Records Requirements

Monthly inspections should be conducted using STI SP001 Monthly Inspection Checklist (DATCP form [TR-WM-128](#)) or an equivalent form

- Annual inspections should be conducted using STI SP001 Annual Inspection Checklist (DATCP form [TR-WM-135](#)) or an equivalent form
- Special conditions should be noted on the checklist or an equivalent form
- Records must be kept on site and available for inspection

Inspection Results

If product is found within a tank's interstitial space during an inspection, delivery of product into the tank must be immediately suspended, and either of the following actions must be taken within 10 business days:

- A vacuum or pressure test must be performed in accordance with the manufacturer's recommendations
- The tank must be closed in accordance with s. ATCP 93.460

For most tanks that have a capacity of more than 5,000 gallons, the requirements include, but are not limited to, having a certified inspection every 20 years, consisting of a visual exam and spot, ultrasonic examination, with no requirement for an integrity pressure test. Please note, double wall tanks do not need ultrasonic examination of the primary tank unless there is corrosion evident on the outside surface of the secondary tank. Both vertical and horizontal single wall tanks require ultrasonic examination.

Implementation Dates

The required inspection schedule must be immediately implemented for tanks placed in service on or after February 1, 2009. For tanks installed prior to February 1, 2009, the inspection schedule was required to be implemented no later than February 1, 2013. The inspection schedule must be based on the tank's time in service.

Many aboveground tanks were recertified in 2000-2001 to meet 2001 upgrade requirements. If the tank has a certification tag or paperwork verifying the tank was inspected and recertified, the 20 years starts over from the date of the recertification. If there is no proof of tank certification within the past 20 years, then the inspection must be completed immediately. A tank installed after 2009 must have the required inspection every 20 years from the date it was placed in service.