TR-WM-138 (3/22) Formerly ERS-6294 UST

FOR OFFICE USE ONLY

Wisconsin Department of Agriculture, Trade and Consumer Protection
Bureau of Weights and Measures
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Wis. Admin. Code §ATCP 93.115

CHECKLIST FOR UNDERGROUND TANK INSTALLATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete one form for each tank and related piping. Note: see below in comment section for alternative fuels.

This checklist covers the installation of: ☐ **Tank** ☐ **Piping**

IDENTIFICATION (Please Print)					
FACILITY NAME	FACILITY ID #		COUNTY		
INSTALLATION STREET ADDRESS *(Not PO Box)*		☐ CITY ☐ TOWN ☐ VILLAGE		STATE	ZIP
OWNER LEGAL NAME	COUNTY	TELEPHONE: ( ) -	E-MAIL		
OWNER STREET ADDRESS		☐ CITY ☐ TOWN ☐ VILLAGE		STATE	ZIP

TANK CONTENTS

☐ Leaded ☐ Unleaded ☐ Diesel ☐ Gasohol ☐ Aviation ☐ Premix ☐ Fuel Oil ☐ Kerosene ☐ Waste/Used Motor Oil ⇨ ☐ Used for Heating
☐ New Motor Oil ☐ Hazardous Waste ☐ Chemical (specify name and CAS#): ☐ Other: ☐ Empty

PLAN APPROVAL	**Installer Verified**	**Inspector Verified**	**NA**
1. Plans have been submitted and approved.	☐	☐	☐
2. State plan number/LPO plan number is:			
3. Tank Capacity: gallons.			
TANK CONSTRUCTION			
1. Tank is new and carries UL or other national testing label.	☐	☐	☐
2. Tank is used, but has been recertified to meet current codes and standards.	☐	☐	☐
3. Tank is corrosion protected (☐ fiberglass or ☐ composite tank) and matches the equipment listed in the plan review.	☐	☐	☐
4. Tank vents do not terminate under eaves, are at least 5 feet from a building, and 15 feet from Power Vent air intake devices.	☐	☐	☐
5. Class I flammable tank vents discharge at least 12 feet above ground level, or if installed within or attached to a canopy discharge is at least 5 feet above the highest part of the canopy.	☐	☐	☐
6. Class II or III A liquid storage tank vents discharge higher than the fill pipe opening, and a minimum of 4 feet above ground level.	☐	☐	☐
7. Overfill protection device is installed and matches plan submittal.	☐	☐	☐
8. Spill containment device is installed.	☐	☐	☐
TANK HANDLING AND TESTING			
1. Pre-installation test of double-walled tank: ☐ 1) Verify manufacturer applied vacuum to the interstice is intact, meets the manufacturer's required vacuum level and the minimum applied duration OR ☐ 2) The visual air/soap test is completed to the manufacturer's specifications.	☐	☐	☐
2. Tank tested after backfilling through precision test, approved tank gauge or interstitial monitor.	☐	☐	☐
3. Tank gauge or interstitial monitor verified as operative.	☐	☐	☐
4. Tank coating was inspected and any damage to the coating repaired.	☐	☐	☐
TANK SITE AND BACKFILL			
1. Tank located a minimum of 3 feet from property lines and 1 foot from buildings.	☐	☐	☐
2. Tank is spaced a minimum of 2 feet from any other tank and from excavation walls.	☐	☐	☐
3. Backfill for composite, fiberglass clad steel, or fiberglass tank is clean, washed, well granulated sand, crushed rock, or is pea gravel naturally round with minimum diameter of 1/8 inch and maximum size of 3/4 inch or crushed rock or gravel between 1/8 and 1/2 inch in size.	☐	☐	☐
4. Minimum of 1 foot of compacted backfill in bottom of excavation or over top of hold down pad.	☐	☐	☐
5. Backfill compaction is adequate to securely and evenly support the tank and prevent movement/settlement.	☐	☐	☐
6. Excavation is in a bog, swampy area or landfill and a filter fabric was used to prevent the migration of the backfill material.	☐	☐	☐
7. Backfill materials over the top of a tank in an area subject to traffic should be compacted to a minimum depth of: ☐ 36 inches if unpaved; ☐ 30 inches if paved with 6 inches of asphalt; ☐ 18 inches if paved with 8 inches of reinforced concrete.	☐	☐	☐
8. Backfill materials over the top of a tank in an area not subject to traffic should be compacted to a minimum depth of: ☐ 2 feet if unpaved; ☐ 1 foot if paved with 6 inches of asphalt or 4 inches of reinforced concrete.	☐	☐	☐
TANK ANCHORAGE			
1. Installation is in an area of high water table or subject to flooding and tank is anchored.	☐	☐	☐
a. Anchor straps for tank were non-conductive and placed according to manufacturer's specifications.	☐	☐	☐
PIPING (Indicate whether piping is ☐Fiberglass or ☐Flexible)			
1. Piping maintains a 1/8 inch per foot slope to a sump or a tank.	☐	☐	☐
2. Piping trench provides a total of at least 18 inches of compacted backfill and paving on top of piping.	☐	☐	☐
3. Pipes are separated by at least twice the pipe diameter.	☐	☐	☐

Continued on next page

	Installer Verified	Inspector Verified	NA
4. Pipes are separated from the trench excavation sidewalls, electrical conduit, utilities, and other structures, by at least 6 inches.	☐	☐	☐
5. Piping was isolated from the tank and dispenser and tested at 150% of operating pressure of the system (but not less than 50 psi) for 1 hour prior to backfilling.	☐	☐	☐
6. Secondary containment piping was tested for tightness before it was covered, enclosed or placed in use. For fiberglass piping test at 10 psi. For flexible secondary piping, test at manufacturer's recommendation: psi.	☐	☐	☐
7. After backfilling, piping was isolated from the tank and dispenser and precision tested at 110% of operating pressure but not less than 50 psi for 1 hour.	☐	☐	☐
8. Piping was isolated from the tank and dispenser and tested through another approved means prior to and after backfilling. Indicate method(s): Prior	☐	☐	☐
After	☐	☐	☐
PRE-OPERATIONAL FUNCTIONALITY VERIFICATION (Both TANK and PIPING)			
1. Tank precision tightness test, including the ullage, verified tank is tight	☐	☐	☐
2. Sumps and spill buckets have been verified as liquid tight	☐	☐	☐
3. All sensors have been verified as functional	☐	☐	☐
4. ATG setup has been verified as accurate and functional	☐	☐	☐
5. Leak detection method has been verified functional within the respective methodology parameters	☐	☐	☐
DOCUMENTATION SUBMITTED PRIOR TO OPERATION – Submit to DATCPinstallclosure@wisconsin.gov			
1. TR-WM-137 Tank Registration (one for each tank) Reference: ATCP 93.140(2)(b)		☐	☐
2. Affidavit of Financial Responsibility (FR), certificate of insurance, and site schedule of covered locations and storage tanks		☐	☐
3. Facility AB Operator Certificate of Completion Reference: ATCP 93.860		☐	☐

Note: see below in comment section for alternative fuels

PRIMARY LEAK DETECTION (Check which applies under both TANK and PIPING)

Tank leak detection ☐ n/a ☐ Electronic interstitial monitoring Manufacturer: Sensor/Probe #:

Piping leak detection Model Name/#: Material Approval #:

Pipe construction material: ☐ Fiberglass ☐ Flexible ☐ Other (type):

Primary Piping System Type: ☐ Pressurized piping ☐ Suction piping with check valve at tank ☐ Suction piping with check valve at pump and inspectable

Piping Catastrophic leak detection method: ☐ Pressurized piping with ⟶ A) ☐ Pump auto shutoff - ELLD B) ☐ Flow restrictor – MLLD;

Manufacturer/Model:

Piping leak detection method: ☐ Electronic interstitial monitoring – sump sensor or leak sensing cable Sensor/Probe #:

A. INSTALLER CERTIFICATION

INSTALLATION COMPANY NAME (Please print)	INSTALLER CERTIFICATION NUMBER	TELEPHONE ( ) -	EMAIL
INSTALLATION COMPANY MAILING ADDRESS *STREET*	CITY	STATE	ZIP

I certify that the tank system and components have been installed according to the manufacturer's instructions and approved plans, and the owner/operator has been instructed on the use of the monitoring/leak detection required and complies with ATCP 93.

INSTALLER SIGNATURE DATE SIGNED

B. INSTALLATION INSPECTOR INFORMATION

INSPECTION DATES: 1.	2.	3.	4.	5.	6.
INSPECTION COMPANY NAME:	FIRE DEPT PROVIDING COVERAGE:				FDID #:
INSPECTOR SIGNATURE:	INSPECTOR CERT #:				DATE SIGNED:

C. ALTERNATIVE FUEL QUALITY & LABELING INSTALLATION INSPECTOR INFORMATION

INSPECTOR NAME:	INSPECTION DATE:
INSPECTOR SIGNATURE: DATE SIGNED:	

Comments:

For Alternative Fuel Storage Tank Installations:

Prior to placing an alternative fuel storage tank system into operation, in addition to the final installation inspection, a pre-operational fuel quality inspection shall be performed by the assigned DATCP general inspection inspector specified in the Conditional Approval letter and Notification. As part of the pre-operational inspection, a completed Part II of the TR-WM-132 Alternative Fuel Storage Tank System and/or Dispenser Installation/Conversion Application shall be available for review/submittal.

TANK REGISTRATION FORM TR-WM-137 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH INSTALLATION CHECKLIST

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