

E15: What Retailers and Service Companies Need to Know

Bureau of Weights and Measures

E15 Presentation Overview

Presenter: Judy Cardin – Director, Bureau of Weights and Measures



E15 Overview

The Bureau of Weights and Measures has developed resource materials for retailers and service companies to understand the requirements related to E15.

Our goal in presenting this material is to assist in providing retailers with the education and resources needed to avoid legal and customer satisfaction pitfalls resulting from the sale of E15 in Wisconsin.

E15 Overview

We have developed a multitude of resources, fact sheets, forms, and compiled it a webpage dedicated to E15. All of the information in this presentation can be found on that page here:

https://datcp.wi.gov/Pages/Programs Services/E15.aspx

In addition to state requirements, we encourage you to familiarize yourself with EPA E15 requirements.

www.epa.gov

E15 Overview

Please see your handouts for the following fact sheets and forms:

- E15 Retailer Fact Sheet
- Alternative Fuel Labeling: E15 Fact Sheet
- Blending E15 at the Pump: What Retailers Need to Know
- E15: Conversions of Storage Tank Systems and Dispensers
- Storage Tank Plan Approval & Installation Requirements for Alternative Fuels
- Alternative Fuel Storage Tank System and/or Dispenser Installation/Conversion Application Form
- Checklist for Underground Tank Installation
- ATCP 93 Notification Record

What Retailers Need to Know About Selling E15

Presenter: Alicia Clark – Compliance Officer



Photo courtesy of e15fuel.org

What is E15?

- The EPA defines E15 as a blend of gasoline that contains greater than 10% ethanol, and up to 15% ethanol
- Under current Wisconsin law, E15 must be sold as an alternative fuel

What vehicles may use E15?

 Model year 2001 and newer cars, light duty trucks, and medium-duty passenger vehicles (SUVs); and flexible-fuel vehicles (FFVs) are allowed by the EPA to use E15

What vehicles and engines may NOT use E15?

- All motorcycles
- All vehicles with heavy duty engines, such as school buses, transit buses, and delivery trucks
- All off-road vehicles, such as boats and snowmobiles
- All engines in off-road equipment, such as lawn mowers and chain saws
- All model year 2000 and older cars, light-duty trucks, and medium-duty passenger vehicles (SUVs)

What are the price posting requirements for E15?

- All grades of motor fuel must be advertised on conspicuous signs
 - Conspicuous posting includes street signs, sandwich boards, or window signs
 - Signs must clearly display all prices per gallon including taxes for all grades of fuel that are being offered to the general public
 - Stores can display some prices on a street sign, and the rest of the prices on a supplemental conspicuous sign posting
 - Signs can only include the price of motor fuel inclusion of other commodities or services, such as car washes, is prohibited

What fuel quality specifications is E15 required to meet in Wisconsin?

 As an alternative fuel, E15 is not required to meet the same standards as automotive gasoline, however, the ethanol used to make E15 must meet the ASTM D4806



- specification and the gasoline used must meet ASTM D4814 specification
- DATCP will test E15 to ensure the ethanol content is correct

What do I need to know about dispensing E15?

- Tank system and dispensing equipment must be compatible with the fuel being stored and dispensed
- Equipment used to store or dispense fuel consisting of more than 10 percent ethanol by volume may not contain or consist of any of the following materials:
 - Metals. Zinc, lead, aluminum or alloys containing these metals, such as brass or terne
 - Note: Terne-plated steel and lead based solder are commonly used in equipment that handles gasoline. These materials will dissolve when in contact with high concentrations of ethanol.
 - Natural materials, cork, leather or natural rubber

- Polymers. Polyurethane, polyvinyl chloride, polyamides, or methyl-methacrylate plastics.
 - Note: Materials that have been shown to be generally compatible with high concentrations of ethanol include unplated steel, stainless steel, black iron, bronze, Neoprene rubber, Buna-N, polypropylene, nitrile, Viton, Teflon, thermoset reinforced fiberglass and thermoplastic piping material.
- Fueling dispensers installed after February 1st, 2009 must have a separate fueling nozzle and hose for dispensing any ethanol-blended motor fuels of more than 10 percent ethanol by volume

- Dispensers installed prior to February 1st, 2009 that do not have a separate nozzle and hose for dispensing E15 must bear a label clearly warning any purchaser that the first gallon may have more than 10 percent ethanol by volume
 - This label must be adjacent to the required E10 label, and must meet all labeling requirements specified in ATCP 94.300(1)(b)

WARNING

The first gallon dispensed may contain more than 10% ethanol by volume

- The warning label must be adjacent to the required E10 label and must be:
 - Present at all times the product is offered for sale
 - Placed on the face of the dispenser next to the name and grade of the product being dispensed
 - Placed so that the text is not sideways or upside down
 - Contrasting in color to the dispenser
 - Conspicuous and legible to a customer when viewed from the driver's seat of a motor vehicle that is located within 6 feet of the dispenser
 - Capable of withstanding extremes of weather conditions for at least 1 year and resistance to gas, oil, grease, solvents, detergents, and water

What are the requirements for labeling E15 at the dispenser?

- Any device that dispenses a gasoline-ethanol fuel blend of more than 2% by volume of ethanol must be labeled with the maximum volume percentage of ethanol at all times the product is offered for sale
 - This label must be placed on the face of the dispenser next to the name and grade of the product being dispensed
 - This label must meet all of the requirements previously discussed
- E15 may be labeled using either the EPA's E15 label, or the Ethanol Flex Fuel labeling established by the FTC

• EPA's E15 label:



Use only in

- 2001 and newer passenger vehicles
- Flex-fuel vehicles

Don't use in other vehicles, boats or gasoline-powered equipment. It may cause damage and is **prohibited** by Federal law.

- The EPA label must measure 3 and $\frac{5}{8}$ inches wide by 3 and $\frac{1}{8}$ inches high
- The EPA label must be placed on the upper two-thirds of each fuel dispenser where the consumer will see the label when selecting a fuel to purchase
- For dispensers with one nozzle, the EPA label must be placed above the button or other control used for selecting E15, or in any other manner which clearly indicates which control is used to select E15
- For dispensers with multiple nozzles, the EPA label must be placed in the location that is most likely to be seen by the consumer at the time of selection of E15

• Ethanol Flex Fuel labeling requirements established by the FTC:



- Ethanol Flex Fuel labeling requirements established by the FTC:
 - The FTC label is 3 inches (7.62 cm) wide x 21/2 inches (6.35 cm) long. "Helvetica Black" or equivalent type is used throughout. The band at the top of the label contains one of the following:
 - For all flex fuels, the numerical value representing the volume percentage of ethanol in the fuel followed by the percentage sign and then by the term "ETHANOL"; or
 - For ethanol flex fuels containing more than 10 percent and no greater than 50 percent ethanol by volume. The numerical value representing the volume percentage of ethanol in the fuel, followed by the percentage sign and then the term "ETHANOL"

- At least one FTC label must be posted on each face of each alternative fuel dispenser
- If you are selling two or more kinds of alternative fuel with different automotive fuel ratings from a single dispenser, separate FTC labels for each fuel must be posted on each face of the dispenser
- The FTC label, or labels, must be placed conspicuously on the dispenser so as to be in full view of consumers and as near as reasonably practical to the price per unit of the automotive fuel

What about octane labeling?

- E15 is not an automotive gasoline under Wisconsin law so retailers are not required to post an octane rating
- If a retailer chooses to post an octane rating, the fuel MUST meet the posted octane
- DATCP will test the fuel to ensure the posted octane is correct







What do I need to know about blending to get E15?

- Two common approaches to selling E15 are:
 - From a storage tank dedicated to E15
 - By blending E10 with E85 at the dispenser to get E15
- Blending in the storage tank is not permitted
- E98 E100 cannot be stored in an underground storage tank, and can only be stored in approved aboveground storage tanks
 - The installation of aboveground storage tanks requires plan approval from DATCP

- Blending at the pump can be done using E85 or other high blend ethanol product
- E85, or flex fuel, is a term that refers to high-level ethanol-gasoline blends containing 51%-83% ethanol, depending on geography and season
- Because of the range in possible ethanol content of E85, retailers must ensure the blend ratio on all dispensers are set to properly blend for E15 at all times

- There are two ways to ensure proper blend ratio:
 - Program the dispensers for the maximum ethanol content of the E85/Flex Fuel
 - Have a service company adjust the blend ratios every time the ethanol content in the E85/Flex Fuel changes
 - This requires regular monitoring of the ethanol content of the E85/Flex Fuel you are receiving and prompt action when the ethanol content changes
- If a consumer experiences vehicle damage as a result of fuel being dispensed at a higher ethanol content than what is posted on the dispenser, the retailer is responsible

Are there any approvals I need to sell E15?

• <u>YES!!</u>

Approvals, Forms, and Inspections for E15

Presenter: Keith Garbe, Weights and Measures Petroleum System Supervisor



Storage Tank Plan Approval & Installation Requirements for Alternative Fuels

- Installation plans must to be submitted for approval on form TR-WM-126. The fee for plan approval varies depending on the size of the tank system.
- All tank systems must be installed by a DATCP certified tank installer working for a registered tank specialty firm, or under the direction of a professional engineer.
- A list of tank specialty firms can be found on our website here:

https://mydatcp.wi.gov/documents/dtcp/List of Tank S pecialty Firm Registrations.pdf

Storage Tank Plan Approval & Installation Requirements for Alternative Fuels

- Part I of the Storage Tank Alternative Fuel Installation/Conversion Application (form TR-WM-132) needs to be submitted with the installation plan.
- This form requires the DATCP certified tank system installer or a professional engineer to verify that the tank system materials are compatible with the fuel being stored.
- This form can be found on our website here:
 https://datcp.wi.gov/Pages/Programs Services/PetroleumHazStorageTanksForms.aspx

Storage Tank Plan Approval & Installation Requirements for Alternative Fuels

- When the approved tank system is installed, final inspection and installation approval is performed by a state inspector (no additional fee)
- The approved installation checklist and tank registration paperwork must be submitted to DATCP Permit staff: form TR-WM-137 for underground tanks or form TR-WM-118 for aboveground tanks (no additional fee)
- If the installation was an underground tank system annual operating permits are issued (no additional fee)

- Storage and dispensing systems being converted from fuels containing 10% or less ethanol, to fuels containing greater than 10% ethanol, must meet the requirements of Wisconsin Administrative Code § ATCP 93.680
- These requirements include plan review and notification, equipment requirements, material compatibility, tank cleaning, and tightness testing
- Plan review and an onsite inspection by the department are required for facilities converting to store and dispense ethanol-based fuels

- At least 15 business days prior to commencing the conversion, Part I of the Storage Tank Alternative Fuel Installation/Conversion Application (form TR-WM-132) must be submitted to the DATCP
- This form requires the DATCP certified tank system installer or professional engineer to verify that the tank system materials are compatible with the fuel being stored. Installation plans do not need to be submitted for a conversion, only Part I of the form.

- After DATCP approval of Part I, conversion can begin
- During the conversion process, Part II of form TR-WM-132 must be completed by the owner/operator and retained on site for DATCP inspector review.
- At least 30 days prior to commencing normal fueling operations using ethanol-blended fuel, the owner/operator must notify the weights and measures petroleum inspector responsible for inspecting the facility. A map of weights and measures petroleum inspectors can be found at:

https://datcp.wi.gov/Documents/WM Gen Insp Territor ies.pdf

 A copy of Part II of form TR-WM-132 and a registration change form must be submitted to DATCP by the owner/operator. Use form <u>TR-WM-137</u> for underground tanks, form <u>TR-WM-118</u> for aboveground tanks

Equipment Requirements for Selling E15

- Listed equipment: Equipment used for dispensing ethanol-blended motor fuel must be listed or recognized by the manufacturer as being compatible with ethanol-blended fuel, except where otherwise approved in writing by the department
- Dispenser nozzles and hoses: Dispensers that are installed on or after February 1, 2009, must use a separate fueling nozzle and hose for dispensing ethanolblended motor fuels of more than 10% ethanol by volume

Equipment Requirements for Selling E15

- In-line filters: A 1- or 2-micron in-line filter must be used for dispensing ethanol-based fuel
- Lined tanks: Tanks with linings regulated under Wis. Admin. Code s. ATCP 93.530 may not be used to store ethanol-blended fuels
- Most metal storage tanks and pipe are compatible with ethanol. However, some fiberglass storage tank systems manufactured before 1992 might not be compatible with higher levels of ethanol. The tank manufacturer and installation contractor should be consulted for additional information on the reuse of underground storage tanks.

Cleaning the Tank

- Storage and dispensing systems containing fuel with an octane rating less than the converted fuel must be emptied of all product before conversion
- If another type of fuel was stored in the tank, the tank must be cleaned in accordance with API 2015 or another method approved by the department, before introducing the ethanol-blended fuel
- All cleaning work must be performed by a certified tank cleaner unless specifically approved by the department based on an alternate cleaning method

Tightness Testing

 A precision tightness test must be performed on the tank and piping in accordance with Wis. Admin. Code s. ATCP 93.515(4) before placing the tank system back into service

+‡

TR-WM-132 (11/17) Formerly ERS-9 Alt Fuels



Wisconsin Department of Agriculture, Trade and Consumer Protection

Bureau of Weights and Measures

P.O. Box 7837, Madison, WI 53707-7837

(608) 224-4942

Wis. Admin. Code §ATCP 93

Transaction #:

Copy to Owner

Copy to Inspector

Wis. Admin. Code §ATCP 93.680

ALTERNATIVE FUEL STORAGE TANK SYSTEM AND/OR DISPENSER INSTALLATION/

New Tank System Installation Instructions: Use one form for each tank system. A DATCP certified installer or professional engineer shall complete Part I of this form and submit it to the department at the address above as part of the plan review submittal. If approved, before commencing normal fueling operations for alternative fuels, the operator shall complete Part II of the (Installation of new storage tank systems for ethanol blends of > 10% and biodiesel > 5%) form and provide the completed form to the DATCP general inspector specified on the conditional approval letter and notification email performing the preoperational inspection. The owner/operator shall not operate the storage tank system until both the TR-WM-138 installation checklist and Part II of the TR-WM-132 alternative fuel installation application have been completed and signed by their respective inspectors.

Existing Tank System Instructions: Use one form for each tank system. A DATCP certified installer or professional engineer shall complete Part I of this form and submit it to the department at the address above prior to the conversion. If approved, before commencing normal fueling operations, the operator shall complete Part II of the form and provide the completed form to the DATCP general inspector specified on the conditional approval letter and notification email performing the pre-operational inspection. Interior lined tanks cannot be approved for alternative fuel use. Note: Alternative cleaning methods shall be approved in advance by submitting form TR-WM-157 for approval.

- Part II: Installation of new storage tank systems for ethanol blends of > 10% and biodiesel > 5%
 - Storage tank conversion for ethanol blends 11 to 15%
 - · Storage tank conversion for ethanol blends greater than 15%
- Storage Tank conversion for biodiesel blends greater than 5%
- Storage tank conversion for higher ethanol blends to lower ethanol blends
- Conversion for using blending dispensers for ethanol < 85% with storage tank system previously approved for alternative fuels

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.).

| Part I | | | | | | | |
|--|------|---------|----------|--------------------|-------------|---------|-----|
| OWNER INFORMATION | | | | | | | |
| CUSTOMER NAME: | | CUSTO | MER ID#: | | | | |
| COMPANY NAME: | TELI | EPHONE: | | EMAIL: | | | |
| SITE STREET ADDRESS (not PO Box) | | ITY 🔲 | /ILLAGE | TOWN | | STATE | ZIP |
| PROJECT INFORMATION | | | | | | | |
| FACILITY NAME: | | FACILIT | Y ID#: | | SITE ID#: | | |
| SITE STREET ADDRESS (not PO Box) | | ITY 🔲 Y | /ILLAGE | TOWN | | STATE | ZIP |
| FIRE DEPT. PROVIDING FIRE COVERAGE: | | | | | | EDID#: | |
| APPROVED ALTERNATIVE CLEANING METHOD TRANSACTION ID: | | | | FINISHED PRODUCT(S |) TO BE DIS | PENSED: | |
| CONTRACTOR INFORMATION | | | | | | | |
| CONTRACTOR NAME: | | CUSTO | MER ID#: | | CONTACT | PERSON: | |
| SITE STREET ADDRESS (not PO Box) | | ITY 🔲 V | /ILLAGE | TOWN | | STATE | ZIP |
| TELEPHONE: CELL: EMAIL: | | _ | | | | | |

| TANK INFORMATION | | | | | | | |
|--|----------------------------------|--------------------------------|-------------------------|------------------------|-----------------------------|------------------|----------------------|
| Tank Orientation: | round 🔲 Aboveground | New Tank | ■ Existing Tank → | Date Installed: | | Tank ID #: | |
| Tank leak detection method: | Tank leak detection method: | | Inventory control and | tightness testing | ☐ Intersti | tial monitoring | |
| Statistical inventory Reconciliation (SIR) | | conciliation (SIR) | Visual (Aboveground | storage tank only) | | | |
| Component: | Existing Manufacturer | Existing Model/Brand | New Equip. Manufacturer | New Equip. Model/Brand | UL Listed or V be Stored | erified by Manuf | facturer for Fuel to |
| Note: Write "HC" and the treatment r | nateriai if a hard-coat treatmer | nt is used to achieve compatib | ility. | • | • | | |
| Tank construction material | | | | | Listed | ☐ Verified | Unknown |
| Spill bucket | I I | I I | 1 1 | I I | Listed | ☐ Verified | Unknown |
| Overfill / Auto shut-off / Ball float | i I | i I | ! ! | | Listed | ☐ Verified | Unknown |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Drop tube | | | | | Listed | ☐ Verified | Unknown |
| STP/Suction pump | i ! | i ! | i ! | i ! | Listed | ☐ Verified | Unknown |
| Leak detection probes | i i | i I | 1 | i I | Listed | ☐ Verified | Unknown |
| Sump monitoring sensors | | | 1 1 | | Material App | proval | |

| PIPE INFORMATION | | New Existing | ☐ Mixed (New/Existing) | | Existing Pipe Install Date | | te | | |
|----------------------|-------------|--------------------|------------------------|---------|----------------------------|----------|-------------|------------------|------------|
| Configuration | Single wall | Double wall | Type: | ☐ Steel | Fiberglass | Flexible | Other: | | |
| Sumps | Submersible | ☐ Pipe connections | • | | | | | | |
| Pipe fitting/valve i | material | | | | i | | lsted (N/E) | ☐ Verified (N/E) | Link (N/E) |
| Gaskets/seals | - : | ! | | | - ! | 0. | Isted (N/E) | ☐ Verified (N/E) | Link (N/E) |
| Pipe sealant/adhe | esive | į | | | | 0. | Isted (N/E) | ☐ Verified (N/E) | Link (N/E) |
| Flex connector | i | i | | | i | 0. | Isted (N/E) | ☐ Verified (N/E) | Link (N/E) |
| Line leak detector | r | | i | | i | 0. | Isted (N/E) | ☐ Verified (N/E) | Link (N/E) |
| Flow restrictor | : | | | | : | 0. | lsted (N/E) | ☐ Verified (N/E) | Link (N/E) |

| DISPENSER INFORMATION | | | | | | | | | | | |
|-----------------------|-------------|------------------|---|---------|---------|------------------|------------|---------|--|--|--|
| Dispenser Listed: | Yes No | | r ethanol blends >1(s installed after 2/1/2009) | III Y | es 🔲 No |) | | | | | |
| Blending dispenser: | Yes No | Containment sump | under dispenser: | Yes Yes | ■ No | | | | | | |
| Dispenser piping | 1 | 1 | 1 | | | Listed | ☐ Verified | Unknown | | | |
| Dispenser Sump | | | | | | Listed | ☐ Verified | Unknown | | | |
| Dispenser sump sensor | | | | | | ☐ Material appro | oval | | | | |
| Gaskets/seals | ! | | | | | Listed | ☐ Verified | Unknown | | | |
| Blending valve | ! | | 1 | 1 | | Listed | ☐ Verified | Unknown | | | |
| Check valve | 1 | 1 | | 1 | | Listed | ☐ Verified | Unknown | | | |
| Meter | 1 | 1 | | 1 | | Listed | ☐ Verified | Unknown | | | |
| Emergency valve | 1 1 1 | 1 1 1 | | 1 | | Listed | ☐ Verified | Unknown | | | |
| Fuel filters | 1 1 1 | ! ! ! | | | | Listed | ☐ Verified | Unknown | | | |
| Break-away device | 1 1 1 | | 1 1 1 | | | Listed | ☐ Verified | Unknown | | | |
| Nozzie(s)/Swivel(s) | 1 | | | | | Listed | ☐ Verified | Unknown | | | |
| Hose(s) | 1 | 1 | 1 | | | Listed | ■ Verified | Unknown | | | |

COMMENTS:

| FEES: (Fee table on next page) | Plan Review | Inspection | Total |
|--|--|--------------------------------------|--------------------------------|
| Alternative Fuel Conversion Fee | \$ (7636) | \$ (8253) | \$ |
| certify by signature that I have pe compatibility, and the information is | rsonally examined and/or am familia s true, accurate, and complete. | ar with the information submitted to | verify system alternative fuel |
| | | | |
| CONTRACTOR SIGNATURE | | | DATE SIGNED |

Failure to submit this form with all items completed will result in the tank and dispenser being subject to red-tagging and shutdown. A tank with any "unknowns" will not be approved.

TR-WM-132 (11/17) Formerly ERS-9 Alt Fuels

STORAGE TANK CONVERSION FOR ETHANOL BLENDS 11 TO 15%

| . ~ | |
|-----|--|
| Re | esponsibilities of Tank Owner/Operator before ethanol blends from 11% to 15% are transferred to an existing storage tank. |
| | Determine equipment compatibility - Part I of this form. |
| | Check for water in the tank. No level of water is acceptable for gasoline-ethanol blended fuels. |
| | All visible fittings and connections at the top of the tank are tight (no vapors escape and no water enters). |
| | Sump and spill containment covers secured to prevent water from entering. |
| | Water infiltration problems fixed if necessary. |
| | Fill labeling - Identify fill port and paint access cover according to API RP 1637. |
| | Dispenser labeling – label dispenser in accordance with the current requirements of ATCP 94.300. A fact sheet on labeling requirements can be found at: Alternative Fuel Labeling |
| Fi | rst Delivery |
| | Conversion of tanks containing fuel with an octane rating less than the converted fuel must be emptied of all product before conversion. |
| | Conduct a precision test of the tank system (0.1 gph leak rate) within seven days after tank is filled to make sure system is tight and leak detection equipment is operating properly. Report shall be available for inspector review during pre-operational inspection. |
| | Test for water using ATG or gauge stick (use alcohol compatible paste if you stick your tanks) at the beginning of each shift for the first 48 hours after delivery (RFA). If there is water in the tank, remove it, find out how it got there and fix it so it doesn't occur again. |
| | Calculate residue volume in product piping based on size, type and length. Purge the calculated residue volume as a minimum quantity of fuel to be flushed from piping. |
| | Change fuel filters. |
| | |

plan submittal application

| Pre-O | perational | | | | | | | | | | |
|--------------|---|-----------------------------|------------------------------------|----------------------|-------------------|--|--|--|--|--|--|
| | Notify DATCP inspector 5 days prior to th | e conversion to sche | dule a pre-operational inspecti | on as required by AT | CP 93.680(4)(c). | | | | | | |
| _ ^ | Assigned inspector information can be found in the Conditional Approval letter and notification email. | | | | | | | | | | |
| w ir a | Have all dispensers calibrated and blending dispensers (if applicable) set up for the new blend ratio prior to the installation inspection with the new product, and signed by the dispenser technician prior to the pre-operational inspection. Reports shall be available for inspector review during pre-operational inspection. Devices designed to check blend ratios and their access passwords shall be made available to the DATCP general inspector at the time of inspection. For blending dispensers, technicians shall fill out the information below and sign for verification of the blend ratio. | | | | | | | | | | |
| | | | | | | | | | | | |
| _ 0 | Submit Tank Registration Form TR-WM-137 or TR-WM-118 along with a completed copy of TR-WM-132 Application Form and a copy of the pre-operational inspection report from DATCP Inspector to DATCP, W&M, P.Q. Box 7837, Madison, WI 53707-7837 or via email: datcpweightsandmeasures@wi.gov . | | | | | | | | | | |
| For bl | For blending dispensers only | | | | | | | | | | |
| □ F | Record here which products are being ble | ended: | | | | | | | | | |
| □ F | Record here which products are being produced via the blending dispenser: | | | | | | | | | | |
| □ F | Record here the blend ratio and confirm it is correct based on the ethanol percentage of the blended products: | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| DISPENS | SER TECHNICIAN SIGNATURE | | | COMPANY | | | | | | | |
| (Note: | By signing, technician is acknowledging | that all blender dispe | nser ratios have been verified | as accurate.) | | | | | | | |
| | | | | | | | | | | | |
| TANK O | WNER SIGNATURE | | | COMPANY | | | | | | | |
| (Note: | By signing, signer is acknowledging that | all the above prepara | tory items have been conduct | ed.) | | | | | | | |
| | | | | _ | _ | | | | | | |
| | | | | | | | | | | | |
| PRINT T | ANK OWNER NAME | | | TITLE | DATE SIGNED | | | | | | |
| Failure t | o submit this form with all items completed will i | result in the tank and disp | enser being subject to red-tagging | and shutdown. | | | | | | | |
| Fee Sul | bmittal | Plan Review Fee | Installation Inspection Fee | Plan Revision Fee | Re-inspection Fee | | | | | | |
| When s | submitted independent of a broader | rae. | 6400 | 6100 | £400 | | | | | | |

\$100

\$100

\$100

\$35

ATCP 93 Notification Record:

(R-VWI-121 (8/16)

TR-WM-121 (8/16) Formerly ERS-919 (7/13)

Wisconsin Department of Agriculture, Trade and Consumer Protection Bureau of Weights and Measures

Storage Tank Regulation, PO Box 7837, Madison, WI 53707-7837

Phone: (608) 224-4942

| | OFFICE | | ON 11 14 |
|-----|--------|-----|----------|
| FOR | OFFICE | USE | ONLY |

Wis. Admin. Code §ATCP 93.115 §ATCP 93.350

ATCP 93 NOTIFICATION RECORD

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.).

TO: OFFICE LOCATION:

(Refer to https://datcp.wi.gov/Pages/Programs Services/StorageTankContacts.aspx for a jurisdiction's authorized agent/department.)

Note: Only the notification form is required for non-flammable, non-combustible, hazardous liquid, or CERCLA tanks greater than or equal to 5,000 gallon capacity that are under the direct supervision of a qualified engineer. A plan review is not required. (ATCP 93.350(2)(b)).

LOCATION / IDENTIFICATION

| SITE NAME | FACILITY NUMBE | R F | FIRE DEPT. Providing fire protection coverage | | | | |
|------------------------|----------------------------------|------------|---|-------------------|------------------|------------------|--------|
| SITE STREET ADDRESS | | CITY | TOWN | VILLAGE | STATE ZIP | 000 | DUNTY |
| OWNER NAME | PHONE NUMBER | , | | | | | |
| OWNER STREET ADDRESS | | CITY | Tow | N 🔲 | VILLAGE | STATE | ZIP |
| CONTRACTOR NAME | PHONE NUMBE | R CELL NUM | IBER | EMAIL | | | |
| STREET ADDRESS | | CITY | Tow | N 🔲 | VILLAGE | STATE | ZIP |
| Date work is to begin: | Date/Time Requested for tank ins | spection: | ATCP 93 | ertified installe | er supervisor or | r qualified engi | ineer: |

ATCP 93 Notification Record:

PROJECT WILL INVOLVE: (Check all that apply)

| | | | | | _ |
|---|-------------|-------------|----------------|---|--|
| | CHE | ECK | NUMBER | PLAN NUMBER | APPROVAL DATE |
| | UST | AST | OF TANKS | | |
| Tank Installation | | | | | |
| Dispenser POS Conversion | | | | | |
| Piping Installation or Upgrade | | | | | |
| Leak Detection Upgrade | | | | | |
| Spill or Overfill Protection | | | | | |
| Cathodic Protection or Interior Lining | | | | | |
| CERCLA Chemical Tank(s) Only | | | | Send notice to DATCP(use addres | s above) |
| Tank Closure | | | | | |
| *Alternative Fuel Storage Tank Installation | | | | For LPO Installation Inspections: Send notice to both the assigned LPO and DATCP General Inspector. | For DATCP Installation Inspections: Send notice to only the assigned DATCP Installation Inspector. |
| *Alternative Fuel Storage Tank Conversion | | | | Send notice to DATCP general inspector. | |
| * See Conditional Approval letter and Notifical | ion email f | or Installa | tion and Gener | al Inspector information. | |
| Site assessment conducted by: | | | | | |
| Comments: | | | | | |

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Chemical (specify name and CAS#):

New Motor Oil

Hazardous Waste

TR-WM-138 (10/17) Formerly ERS-6294 UST FOR OFFICE USE ONLY Wisconsin Department of Agriculture, Trade and Consumer Protection Reg Qbi #: Bureau of Weights and Measures P.O. Box 7837, Madison, WI 53707-7837 (608) 224-4942 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) INSTALLATION NAME COUNTY CITY TOWN VILLAGE INSTALLATION STREET ADDRESS (Not PO Box) STATE ZIP OWNER LEGAL NAME TELEPHONE: E-MAIL COUNTY CITY TOWN VILLAGE OWNER STREET ADDRESS STATE ZIP TANK CONTENTS Leaded Unleaded Diesel Gasohol Aviation Premix Fuel Oil Kerosene Waste/Used Motor Oil ⇒ □ Used for Heating

Other:

Empty

| PL | AN APPROVAL | | Inspector | NA |
|----|---|----------|-----------|----|
| | | Verified | Verified | |
| 1. | Plans have been submitted and approved. | | | |
| 2. | State plan number/LPO plan number is: | | | |
| 3. | Tank Capacity: gallons. | | | |
| TA | NK 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. | 1 | | 1 |
| 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. | | | |
| TA | NK 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. | | | 1 |
| 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. | | | |

| | | | |
|----|---|------|--|
| TA | NK 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. | | |
| TA | NK ANCHORAGE | | |
| 1. | Installation is in an area of high water table or subject to flooding and tank is anchored. | | |
| | Anchor straps for tank were non-conductive and placed according to manufacturer's specifications. | | |
| PI | PING (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. | | |
| | | | |

TR-WM-138 (10/17) Formerly ERS-6294 UST

| | Installer Verified | Inspector Verified | NA | | | |
|--|-----------------------|-----------------------|----|--|--|--|
| 4. Pipes are separated from the trench excavation sidewalls, electrical conduit, utilities, and other structures, by at least 8 inches. | | | | | | |
| 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 and after backfilling. | | | | | | |
| 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: | | | | | | |
| 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): | | | | | |
| After | | | | | | |
| PRE-OPERATIONAL FUNCTIONALITY VERIFICATION (Both TANK and PIPING) | | | | | | |
| Tank precision tightness test, including the ullage, verified tank is tight | | | | | | |
| 2. Sumps and spill buckets have been verified as liquid tight | | | | | | |
| All sensors have been verified as functional | | | | | | |
| 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 – Required for Permit to Operate (PTO) upon completion of final inspection | | | | | | |
| TR-WM-137 Tank Registration (one for each tank) Reference: ATCP 93.140(2)(b) | | | | | | |
| Affidavit of Financial Responsibility (FR)—Pollution Insurance Reference: ATCP 93.705 | | | | | | |
| Facility AB Operator Designation Form Reference: ATCP 93.860 | | | | | | |

Note: see below in comment section for alternative fuels

| PRIMARY LEA | K DETECTION (Check which applies un- | der both TANK and PIPING | i) | | | | | | | |
|--|---|--------------------------|--------|-----------|----------------------|----------|------|-----|-----|--|
| Tank | | | | | | | | | | |
| n/a | Electronic interstitial monitoring | Manufacturer: | | | Sensor/Probe #: | | | | | |
| Piping | Model N | iame/#: | | | Material Approval #: | | | | | |
| Pipe (| construction material: 🔲 Fiberglass | Flexible Other (ty | pe): | | | | | | | |
| 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: | | | | | | | | | |
| Pipin | Piping leak detection method: Telectronic interstitial monitoring – sump sensor or leak sensing cable | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| A. INSTAL | LER CERTIFICATION | | | | | | | | | |
| INSTALLATION | COMPANY NAME (Please print) | INSTALLER CERTIFICATION | NUMBER | TELEPHONE | EMAIL | | | | | |
| INSTALLATION | COMPANY MAILING ADDRESS STREET | | CITY | | | S | TATE | ZIP | | |
| I certify that the tank system and related components have been installed according to the manufacturer's instructions, conditionally approved plans, and complies with ATCP 93. | | | | | | | | | 93. | |
| INSTALLER S | IGNATURE: | | | | | ATE SIGN | VED. | | | |

| B. INSPECTOR INFORMATION | | | | | | | |
|--|--------------|----------------|----|---------|----|--|--|
| INSPECTION DATES: 1. | 2. | 3. | 4. | 5. | 6. | | |
| INSPECTION COMPANY NAME: COMPANY NUMBER: | | | | | | | |
| INSPECTOR SIGNATURE: | INSPECTOR #: | INSPECTOR#: LO | | | | | |
| DATE SIGNED: FIRE DEPARTMENT PROVIDING COVERAGE: | | | | FDID #: | | | |

Comments:

For Alternative Fuel Storage Tank Installations:

Prior to placing a storage tank system into operation, a pre-operational inspection shall be performed by the assigned DATCP general inspector specified in the Conditional Approval letter and Notification email. As part of the 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.

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

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Questions?

