

Iowa Department of Natural Resources
Underground Storage Tank Section
502 East 9th Street
Des Moines, IA 50319-0034
www.iowadnr.gov/ust

Underground Storage Tank System Checklist for Equipment Compatibility with Biofuels (greater than 10% ethanol or 20% biodiesel by volume)

This checklist is to be completed by the owner/operator and an lowa Licensed Installer. The owner must complete those items identified as the owner's responsibility in the checklist.

NOTIFICATION: Owners must notify the Department at least 30 days PRIOR to switching to a regulated substance containing greater than 10% ethanol or greater than 20% biodiesel, or any other regulated substance identified by the department.

Owners and operators must use a UST system made of or lined with materials that are compatible with the substance stored in the UST system. NOTE: Owners and operators storing alcohol blends may use the following codes to comply with the requirements of Iowa Administrative Code (IAC) 567 - 135.4(3): American Petroleum Institute Publication 1626, "Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Service Stations".

Effective January 1, 2023: A retail dealer shall not install, replace, or convert gasoline storage and dispensing infrastructure used to store and dispense an ethanol blended fuel classified as E-15 or higher, unless the installed, replaced, or converted fuel infrastructure is capable of storing and dispensing ethanol blended fuel classified as E-85. The infrastructure must be listed as compatible for use with ethanol blended gasoline classified as E-85 by an independent testing laboratory or as approved by the manufacturer.

Effective January 1, 2023: A retail dealer shall not install, replace, or convert diesel fuel storage and dispensing infrastructure unless the installed, replaced, or converted diesel fuel infrastructure is capable of storing and dispensing biodiesel blended fuel classified as B-20 or higher. The infrastructure must be listed as compatible for use with biodiesel blended fuel classified as B-20 or higher by an independent testing laboratory or as approved by the manufacturer.

FACILITY INFORMATION				
Facility Name:		Registration No.:		
Site Address:	No. of Tanks:			
City:	Zip Code:	Date of Inspection:		
Owner Name:				
E-blend planned: E15 E85 Other				
Iowa Licensed Installer:				
Company:		Installer License No.:		

Review this checklist thoroughly for its requirements before converting to a biofuel or other regulated substance. Enter *Model/Brand, Manufacturer* and check either Yes or No in one or both columns under UL Listed or Manufacturer Approved. You may find information on UST system component compatibility at the <u>UL Fuel Compatibility Tool</u>. If you cannot locate an appropriate listing or certification, a manufacturer's statement of compatibility should be obtained.

For existing fuel sites being converted for new substances, identify the UST compartment number(s) to contain the biofuel. (refer to https://programs.iowadnr.gov/tanks/pages/advanced.aspx to search for compartment numbers.)

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C	oing	80		Manufacturer
Component	Model/Brand	Manufacturer	UL Listed	Approved
Tank (capacity:)		Yes No No	Yes No
Auto Shutoff			Yes No No	Yes No No
Sub Pump, O-rings, Gaskets			Yes No No	Yes No No
Tank Sump			Yes No No	Yes No No
ATG Probe, float/sensor			Yes No No	Yes No No
Ball Float			Yes No No	Yes No No
Sump Sensor			Yes No No	Yes No No
Pipe			Yes No No	Yes No
Thread Sealant			Yes No No	Yes No
Adhesive			Yes No No	Yes No No
Flex Connectors			Yes No No	Yes No
Line Leak Detector			Yes No No	Yes No
Spill Containment (spill bucket)			Yes No No	Yes No No
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NOTE: If more than one tank or compartment is to contain a biofuel, provide additional copies of this page, as needed.

Tank Compartment #: _____ Current content: _____ Proposed content: _____

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Provide an additional page for each tank/compartment, as needed.

Before Biofuel or other regulated substance is transferred to the Tank

Once equipment compatibility has been established, the items below must be completed before biofuel can be transferred to the tank. Items that are the responsibility of the UST owner are indicated. The remaining items are the responsibility of the lowa Licensed Installer.

I hav this o be tr Insta Iowa	Aller Certification We inspected the visible UST system components, and reviewed available installation records of the UST system referenced on checklist. I have found the information listed on the above checklist regarding the equipment/components of this UST site to rue and accurate. Aller's Signature: Date: Licensed Installer's license #: Diva Licensed Installer's Company license #: Description Description Licensed Installer's Company license #: Description Description
I hav this o be tr	ve inspected the visible UST system components, and reviewed available installation records of the UST system referenced on checklist. I have found the information listed on the above checklist regarding the equipment/components of this UST site to rue and accurate. Blier's Signature: Date:
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equi	nsed Installers: Installers must review site equipment and records to verify compatibility. Provide comment on what ipment is needed to make the fuel path compatible with the E-blend planned or why the site is not compatible for proposed substance to be stored. If work has been completed, identify what was replaced.
Ongo	oing Maintenance Check regularly for water. No level is acceptable. (Responsibility of Owner)
	find out how it got there and fix it so it doesn't occur again. (Responsibility of Owner) Check for water daily. (Responsibility of Owner)
	Conduct a precision test of the tank system (0.1 gph leak rate) with ATG system within seven days after tank is filled to make sure system is tight and leak detection equipment is operating properly. Report any "Fail" results. (Responsibility of Owner) Test for water at the beginning of each shift for the first 48 hours after delivery (RFA). If there is water in the tank, remove it,
	Delivery Tank filled to 80 percent capacity (recommended by the Renewable Fuels Association or RFA) and kept as full as possible for 7 to 10 days. (Responsibility of Owner)
	Labeling: identify the fill port and paint access covers according to API RP 1637. Label dispenser.
	The tank has been cleaned of all water and sediment.
	Water infiltration problems fixed if necessary.
	Sump and spill containment covers prevent water from entering. (Installer)
	of Installer initially and the owner thereafter.) All visible fittings and connections at the top of the tank are tight (no vapors escape and no water enters).
ш	Obtain an amended certificate of insurance indicating UST coverage for the product stored. (Responsibility of Owner). Check for water in the tank. No level of water is acceptable for biofuels due to the phase separation problems. (Responsibility

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