



Colorado Department of Labor and Employment
 Division of Oil and Public Safety – Compliance Section
 633 17th Street, Suite 500
 Denver, CO 80202-3610

Phone: 303-318-8525
 Fax: 303-318-8518
 Web: www.colorado.gov/ops
 Email: cdle_oil_inspection@state.co.us

Alternative/Renewable Fuels Compatibility Form

(Revised 10/2015)

Storage Tank System Checklist for Equipment Compatibility for E-blend Fuels (greater than 10% ethanol by volume) or Bio-Diesel Products

[Petroleum Storage Tank Regulations](#) (7 CCR 1101-14 §2-2-1(f) and §3-2-1(h)) address compatibility requirements for UST and AST systems by stating that owners/operators must use a UST system or an AST system made of or lined with materials that are compatible with the substance stored in the UST or AST. Product piping (including piping within the dispensers), as well as containment sumps, are considered part of the UST or AST system and need to be compatible with the substance stored and dispensed through it. All UST or AST systems that store and dispense Alternative/Renewable fuel must be fully compatible.

Facility Information		Owner Information	
Facility Name:		Owner Name:	
Address:		Address:	
City/State/ZIP:		City/State/ZIP:	
Contact Name:		Contact Name:	
Phone Number:		Phone Number:	
Email Address:		Email Address:	

Alternative/Renewable Fuel Type

Ethanol:	<input type="checkbox"/> E-85 (85% Ethanol)	<input type="checkbox"/> E-100 (100% Ethanol)	<input type="checkbox"/> Other:	
Diesel:	<input type="checkbox"/> B-10 (10% Bio-Diesel)	<input type="checkbox"/> B-20 (20% Bio-Diesel)	<input type="checkbox"/> B-100 (100% Bio-Diesel)	<input type="checkbox"/> Other:

The UST system components below must be compatible with the Alternative/Renewable fuel stored and dispensed. Review this checklist thoroughly for its requirements before converting to Alternative/Renewable fuel. Enter Model/Brand, Manufacturer and check either *Yes* or *No* under *UL Listed* and/or *Manufacturer Approved*. *Internally-lined tanks are not suitable for conversion to storage of Alternative/Renewable fuels.

Tanks and Product Piping

Component	Model/Brand	Manufacturer	UL Listed?	Manufacturer Approved?
Tank* (capacity)			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Auto Shutoff			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Sub Pump, O-rings, Gaskets			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Tank Sump			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
ATG Probe, Float/Sensor			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Ball Float			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Sump Sensor			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Pipe			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Thread Sealant			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Adhesive			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Flex Connectors			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
LLD			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

Dispensers and Dispenser Sump

Dispenser			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Pipe Sealant			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Seals/Gaskets			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Suction Pump			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Hoses			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Nozzle/Swivel			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Break-away			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Filter			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Meter			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Dispenser/Sump			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Pipe			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Pipe Sealant			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Flex Connector			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Sump			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Emergency Valve			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Sensor			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
Check valve			<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

Items to Check Prior to Transferring Alternative/Renewable Fuel into the Tank

(once equipment compatibility has been established)

Check for water in the tank. (No level of water is acceptable for Alternative/Renewable fuels due to the phase separation problems.)	<input type="checkbox"/> Y <input type="checkbox"/> N
All visible fittings and connections at the top of the tank are tight (no vapors escape and no water enters).	<input type="checkbox"/> Y <input type="checkbox"/> N
Sump and spill containment covers prevent water from entering.	<input type="checkbox"/> Y <input type="checkbox"/> N
Water infiltration problems have been fixed (if necessary).	<input type="checkbox"/> Y <input type="checkbox"/> N
The tank has been cleaned of all water and sediment.	<input type="checkbox"/> Y <input type="checkbox"/> N
Clean tank certificate or comparable documentation has been obtained (e.g., see API Publication 2015, Cleaning Petroleum Storage Tanks and NFPA 326, Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair, 2005 Edition).	<input type="checkbox"/> Y <input type="checkbox"/> N
Labeling: identify the fill port and paint access covers according to API RP 1637. Make sure the transport driver cannot make the mistake of delivering Alternative/Renewable fuel to the wrong tank. Label the dispenser.	<input type="checkbox"/> Y <input type="checkbox"/> N

Installer Information

Installation Company Name:		Contact Name:	
Address:		Phone Number:	
City/State/ZIP:		Email Address:	