



DEM
RHODE ISLAND

**Rhode Island Department of Environmental Management
Office of Land Revitalization and Sustainable Materials Management
Underground Storage Tank (UST) Division**

Standardized Annual Testing Form for UST Systems

Facility Profile

Facility Name:	<input type="text"/>	RI DEM UST Facility ID#	<input type="text"/>
Physical Address:	<input type="text"/>	City/Town:	<input type="text"/>
Primary Contact Name:	<input type="text"/>	Contact Phone #:	<input type="text"/>

UST System Use:

UST Construction Type: Piping Construction Type:

UST System Contents: Gasoline - All Grades Diesel Heating Fuel (all grades) Waste Oil Kerosene
(check all that apply) Mixture Jet Fuel/Av Gas Lube/Motor Oils Other Hazardous Substance:

Tester Information

Company Name:	<input type="text"/>	Company Phone #:	<input type="text"/>
Mailing Address:	<input type="text"/>		
Tester Name:	<input type="text"/>	Tester Phone #:	<input type="text"/>

Test Summary

Date of Test/Inspection:	<input type="text"/>	Tester Signature:	<input type="text"/>
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- This is a routine annual test
- This is a re-submittal due to DEM request
- This is a re-test due to a failed test
- This is a post-construction/modification test

General Comments about this test:

NOTE: This form is for annual tests only. Forms for other tests are available on our website at: <http://www.dem.ri.gov/UST>
Tests should be performed using methods described in PEI/RP1200.

All test results are required to be submitted to DEM within 30 days for passing tests and 7 days for failed tests.
All results must be mailed - we are unable to accept electronic, e-mail, or faxed test results.

Results should be mailed to:

RI DEM - UST Program
235 Promenade
Providence, RI 02908

Automatic Tank Gauge Operation and Inspection

Facility Address: City/Town: Facility ID # Test Date:

This procedure is to determine whether the automatic tank gauge (ATG) is adjusted, set-up, and operating properly.
For proper inspection procedure, see PEI/RP1200 Section 8.2 or equivalent.

DEM Tank ID #	<input style="width: 95%; height: 25px;" type="text"/>				
Product Stored	<input style="width: 95%; height: 25px;" type="text"/>				
ATG Brand and Model	<input style="width: 95%; height: 25px;" type="text"/>				
Tank Volume (Gallons)	<input style="width: 95%; height: 25px;" type="text"/>				
Tank Diameter (inches)	<input style="width: 95%; height: 25px;" type="text"/>				

Was the ATG removed from the UST for inspection?	Yes	No								
Do the floats move freely on the stem without binding?	Yes	No								
Does the fuel float level agree with the value displayed on the ATG console or CMS?	Yes	No								
Does the water float level agree with the value displayed on the ATG console or CMS?	Yes	No								
What is the distance (inches) from the bottom of the ATG stem to the point the water float triggers a water alarm on the CMS or ATG console?	<input style="width: 60%; height: 25px;" type="text"/>									
Will the installed ATG alert the operator when 1" of water is present in the tank?	Yes	No								

If any answers above are "No" or were not able to be answered, the ATG has failed

FINAL RESULT:	Pass	Fail								
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Were repairs required to achieve a passing result? Yes No

Comments or Description of Repairs Performed:

Mechanical and Electronic Line Leak Detectors

Facility Address: City/Town: Facility ID # Test Date:

This data sheet should be used to test mechanical line leak detectors (MLLD) and electronic line leak detectors (ELLD) with submersible turbine pumps (STP) systems. See PEI/RP1200 Sections 9.1 and 9.2 for test procedures

Which UST(s) does this LLD service?	<input style="width: 95%;" type="text"/>				
Leak Detector Manufacturer	<input style="width: 95%;" type="text"/>				
Leak Detector Model	<input style="width: 95%;" type="text"/>				
What type of Line Leak Detector is present?	MLLD ELLD				

Mechanical Line Leak Detectors	All Pressure Measurements are made in PSIG										
STP Full Operating Pressure	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Check Valve Holding Pressure	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Line Resiliency (mL) <i>Line Bleedback volume as measured from check valve holding pressure to 0 psig</i>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Step Through time in Seconds <i>Time the MLLD hesitates at metering pressure before going to full operating pressure as measured from 0 psig with no leak induced on the line</i>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Metering Pressure <i>STP Pressure when simulated leak rate of 3 GPH at 10 psig</i>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Opening Time in Seconds <i>The time the MLLD opens to allow full pressure after simulated leak is stopped</i>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Does the STP pressure remain at or below the metering pressure for at least 60 seconds when the simulated leak is induced?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No
Does the leak detector reset (trip) when the line pressure is bled off to zero psig?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No
Does the STP properly cycle on/off under normal fuel system operation conditions?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No

Electronic Line Leak Detectors	All Pressure Measurements are made in PSIG										
STP Full Operating Pressure	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
How many test cycles are observed before alarm and/or shutdown occurs?	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>
Does the simulated leak cause an alarm?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No
Does a simulated leak trigger a STP shutdown?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No
If the simulated leak does not trigger an alarm on the CMS console, the ELLD has failed											
FINAL RESULT:	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Fail

Were repairs required to achieve a passing result? Yes No

Comments or Description of Repairs Performed:

Shear/Crash Valve Operation

Facility Address: City/Town: Facility ID # Test Date:

What Type of piping system does this UST Facility Use? Pressurized Suction No Piping

This datasheet should only be used for inspecting shear/crash valves located inside dispensers of pressurized piping systems. This datasheet is not required to be completed for systems with suction piping or those that do not having piping. For inspection and testing procedures of shear/crash valve on pressurized piping systems, see PEI/RP1200 Section 10.

| Dispenser # | <input style="width: 80%; height: 20px;" type="text"/> |
|--|--|--|--|--|--|--|--|
| Is the valve rigidly anchored to the dispenser box frame or dispenser island? | Yes No |
| Is the shear section positioned between 1/2" above or below the top surface of the dispenser island? | Yes No |
| Is the lever arm free to move? | Yes No |
| Does the poppet valve automatically snap shut? | Yes No |
| When the poppet valve is closed is the flow of product fully stopped? | Yes No |
| Have all test or quick disconnect fittings that reach above the shear point of the valve been removed? | Yes No |

If the answers to any of the above are "No", the valve has failed and the dispense must immediately be taken out of service

FINAL RESULT:	Pass Fail						
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Were repairs required to achieve a passing result? Yes No

Comments or Description of Repairs Performed:

Overfill Prevention Device

Facility Address: City/Town: Facility ID # Test Date:

What is the primary overfill protection device at this site? **Ball Float** **Overfill Alarm** **Automatic Shutoff Valve (Flapper)**

This datasheet is for inspecting automatic shutoff devices, ball floats, and overfill alarms. See PEI/RP1200 Section 7 for inspection procedures.

Ball Float Valve

| DEM Tank ID # | <input style="width: 50px;" type="text"/> | |
|--|---|----|---|----|---|----|---|----|---|----|---|----|
| Ball float removed for inspection? | Yes | No |
| Ball float cage free of debris? | Yes | No |
| Ball free of holes, cracks, or other damage? | Yes | No |
| Ball present and moves freely in cage? | Yes | No |
| Vent hole in pipe open and near top of tank? | Yes | No |
| Measured depth at which the installed ball float would begin to restrict flow (inches) | <input style="width: 50px;" type="text"/> | |
| Depth at which UST is 90% full according to manufacturers tank charts (inches) | <input style="width: 50px;" type="text"/> | |
| Will ball float restrict flow at 90% capacity? | Yes | No |

Automatic Shutoff Device (Flapper Valve)

| DEM Tank ID # | <input style="width: 50px;" type="text"/> | |
|---|---|----|---|----|---|----|---|----|---|----|---|----|
| Was the drop tube removed from the tank? | Yes | No |
| Drop tube free of debris or obstructions? | Yes | No |
| Float moves freely without binding and poppet moves into flow path? | Yes | No |
| Flapper set to shutoff at 95% capacity? | Yes | No |
| Drop tube free of corrosion or other damage? | Yes | No |

Remote Overfill Alarm

DEM Tank ID #:	<input style="width: 50px;" type="text"/>							
Does overfill alarm activate in the test mode at the console?	Yes	No	Yes	No	Yes	No	Yes	No
When activated, can the overfill alarm be heard and seen from the fill point?	Yes	No	Yes	No	Yes	No	Yes	No
Does manually moving the product float(s) to the 90% level trigger the alarm?	Yes	No	Yes	No	Yes	No	Yes	No
Was the ATG removed, inspected, and found to be fully operational?	Yes	No	Yes	No	Yes	No	Yes	No
Measured product depth at which the installed alarm would activate (inch)	A	<input style="width: 50px;" type="text"/>						
Depth at which UST is 90% full according to manufacturers tank charts (inch)	B	<input style="width: 50px;" type="text"/>						
Is A ≤ B?	Yes	No	Yes	No	Yes	No	Yes	No

Comments or Descriptions on Test or Repairs Performed:

If any of the above are "No", the overfill device is considered failed.

Overfill Prevention Device Component Final Result: Pass Fail

Continuous Monitoring System, Liquid Level Sensors, and Interstitial Space Sensor

Facility Address: City/Town: Facility ID #: Test Date:

Continuous Monitoring System

Is the CMS operational and indicating "normal" conditions with no alarms, warnings, malfunctions, or test failures indicated?	Yes	No
When the "TEST" button is pressed, does the CMS make an audible sound and all lights on the console illuminate?	Yes	No
Do the programmed tank parameters (tank size, component type) match what is installed on-site?	Yes	No



All sensors must be removed for inspection



If any are "No", the device is considered failed

Piping, STP, and Transition Sump and Under-Dispenser Containment Liquid Level Sensor

Sensor Location	<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>					
Which UST or dispenser is this sensor associated with?	<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>			<input style="width: 100%; height: 25px;" type="text"/>					
Is this sensor connected to the CMS or a standalone positive shutdown?																					
When the sensor is immersed in liquid is an alarm triggered on the CMS?	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Is the sensor upright, within 1" of the lowest point of sump, and secured?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Is the Sensor free of debris, damage, obstructions, surface films or coatings?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
When the sensor triggers an alarm, does the CMS show the correct location of the sensor?	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Is the sensor wire free from cracks, splits, or other damage, and connected with waterproof connectors?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
If equipped, does activation of the liquid level sensor shut down the associated component?	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A

UST Interstitial Space Sensor

UST # or Contents	<input style="width: 100%; height: 25px;" type="text"/>											
Is sensor free of damage, obstructions, surface films, and coatings?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Is the sensor wire free from cracks, splits and other damage? Does the sensor float move freely and trigger an alarm?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Comments on Test or Repairs Performed:	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

CMS, Liquid Level Sensors and UST Interstitial Space Sensor Test Result: Pass Fail