Triennial Overfill Prevention Equipment Functionality Test

Functionality test of overfill equipment is required at installation, every three years, following a repair or for any UST system prior to returning to service from temporary closure.

- Inspect overfill prevention equipment for operability, proper operating condition, and calibration in accordance with PEI RP 1200, "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection, and Secondary Containment Equipment at UST Facilities" and/or any additional inspection procedures listed in the manufacturer's guidelines. Page 3 is only required if tank tilt must be determined per guidelines listed on this page.
- In accordance with 9VAC25-580-50.3, new ball float vent valves cannot be installed on or after January 1, 2018.

UST FACILITY

Owner / Operator Name	Facility Name	Facility ID#:
Facility Street Address	Facility City	County

TESTING CONTRACTOR INFORMATION

Company Name	Phone	Email Address

I certify, under penalty of law, that the testing data provided on this form documents the UST system equipment was checked in accordance with the manufacturer's guidelines and the applicable national industry standards listed in 9VAC25-580-82.

Print Name of person conducting test	Signature of person conducting test	Test Date

Testing Method Used (check all that apply): ☐ PEI RP-1200 ☐ Manufacturer's Instructions ☐ Other

Overfill Equipment Check	**Tank #**	**Tank #**	**Tank #**	**Tank #**	**Tank #**
Product:					
Tank chart volume (gallons):					
Tank chart diameter (inches):					
Tank Type:	☐ FRP ☐ Steel	☐ FRP ☐ Steel	☐ FRP ☐ Steel	☐ FRP ☐ Steel	☐ FRP ☐ Steel
If FRP Compartment tank, select:	☐ Base ☐ End	☐ Base ☐ End	☐ Base ☐ End	☐ Base ☐ End	☐ Base ☐ End
Overfill device manufacturer/model					
Shutoff/Flapper Valve	A "No" answer to any items below, ball float length not determined, or complete shut-off greater than 95% of tank capacity indicates a functionality test failure.				
Drop tube removed from tank?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Drop tube and float mechanism are free of debris and foreign objects?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Float moves freely without binding and poppet moves into flow path?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Bypass valve in the drop tube is open and free of blockage (if present)?	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present
Current length from tank top to final (complete) shutoff point (inches)					
Percent tank volume when final shutoff occurs (%)					
If tank has a ball float, does the ball float alert at greater than 95%? (If present, complete ball float length and percent set point below)	☐ Yes ☐ No ☐ Length not Determined ☐ Not Present	☐ Yes ☐ No ☐ Length not Determined ☐ Not Present	☐ Yes ☐ No ☐ Length not Determined ☐ Not Present	☐ Yes ☐ No ☐ Length not Determined ☐ Not Present	☐ Yes ☐ No ☐ Length not Determined ☐ Not Present

Shutoff/Flapper Valve Test Result	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Comments

Triennial Overfill Prevention Equipment Functionality Test

Ball Float Valve A "No" answer to any items below or flow restriction occurs at greater than 90% tank capacity indicates a test failure unless the device is used in conjunction with a shutoff valve. Ball floats used with shutoff valves must restrict flow at greater than 95% tank capacity.

Is the Ball Float is not being used with suction pumps, coaxial Stage 1 vapor recovery, or remote fill pipes?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Ball Float assembly removed from tank?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Cage intact & ball in good condition, ball moves freely & seats firmly?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Vent hole in pipe is open and near top of tank?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Current length from tank top to ball float set point (inches)					
Percent tank volume when flow restriction occurs (%)					

Ball Float Valve Test Result	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Overfill Alarm A "No" answer to any items below or alarm activates at greater than 90% tank capacity indicates a functionality test failure.

Overfill alarm activates in test mode at the console?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
When activated, overfill alarm can be heard or seen while delivering to the tank?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
After removing the probe from the tank, it has been inspected and any damaged or missing parts replaced?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Float moves freely on the probe stem without binding?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Moving product level float up the probe stem triggers alarm?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Inch level from bottom of stem when 90% alarm is triggered.					
Tank volume at inch level in Line 6.					
Fuel float level on the console agrees with the gauge stick reading?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Overfill alarm and tank setup reports attached?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

Overfill Alarm Test result	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**	**Pass**	**Fail**
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Comments

Date next Overfill Device functionality test due (required every 3 years)

Triennial Overfill Prevention Equipment Functionality Test
TANK TILT DETERMINATION

Tank tilt must be determined if 30 minute flow restriction ball float valves[1] are set at a height greater than 90% tank capacity or shut off devices[2] are set to completely shut off flow at a height greater than 95% tank capacity. Tank tilt must be determined for each compartment of a compartmentalized tank.

[1] Only certain types of ball float valves are constructed with the calibrated pressure relief orifice necessary to allow setting of these devices at a height greater than 90% capacity. Consult with the manufacturer to determine which type of ball float valve you have.

[2] Certain types of shut off devices are "two stage". You must determine whether or not the complete shut off engages at 95% of tank capacity when installed in accordance with manufacturer's instructions.

Method of Determining Tank Tilt	☐ Product level gauge at two separate tank openings ☐ Elevation of each end of tank surveyed with a level ☐ Measured with a tank inclinometer ☐ Other (specify):					
Results of Tank Tilt Determination	Tank #					
	Tank tilt cannot be determined	☐	☐	☐	☐	☐
	Overall tank tilt (inches)					
	Indicate whether overfill device is installed at center or high/low end of tank	☐ Low (A) ☐ Center (B) ☐ High (C)	☐ Low (A) ☐ Center (B) ☐ High (C)	☐ Low (A) ☐ Center (B) ☐ High (C)	☐ Low (A) ☐ Center (B) ☐ High (C)	☐ Low (A) ☐ Center (B) ☐ High (C)

If tank tilt cannot be determined the ball float valve must be set to restrict flow at 90% tank capacity (unless installed in conjunction with a shut off device) or the shut off device must be set to completely shut off flow at 95% tank capacity.

If tank tilt is determined to be one inch or greater and the overfill device is installed in the high end of the tank, then:

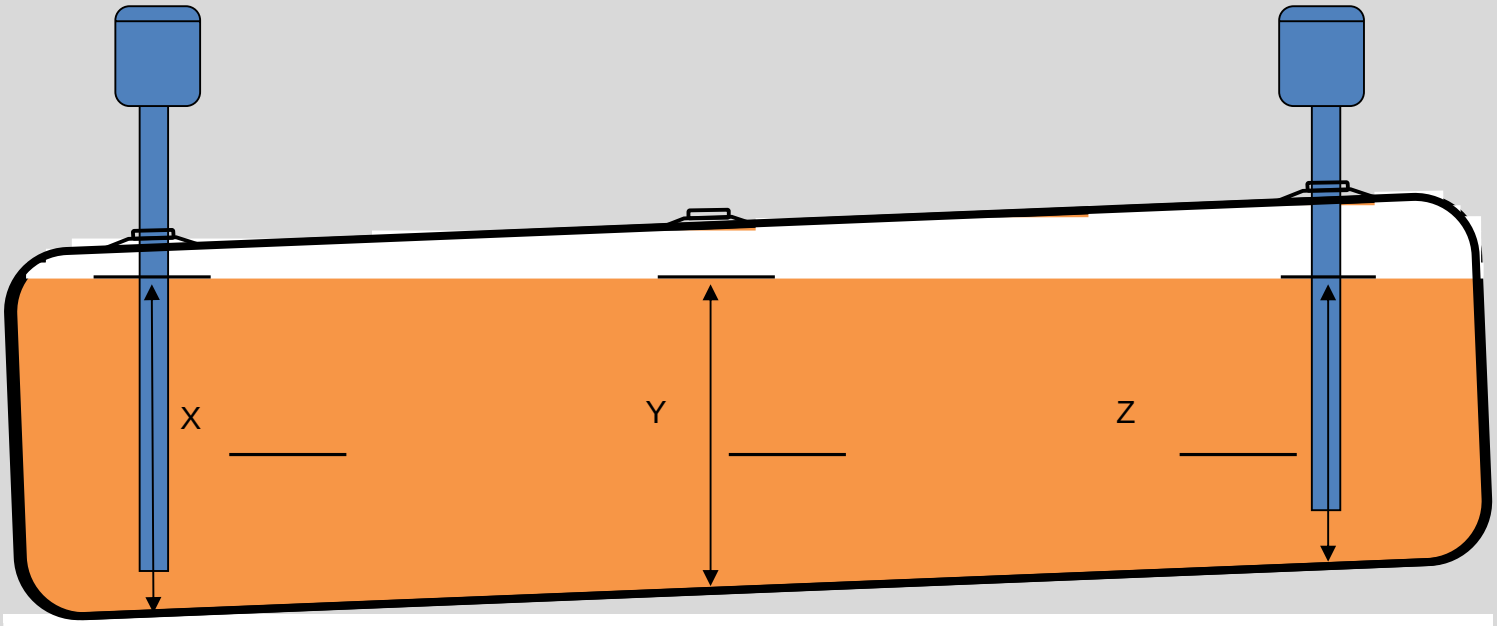
- all ball float valves must be set to restrict flow/alarm at 90% tank capacity (unless installed in conjunction with a shut off device);
- all drop tube shut off devices (regardless of type) must be set to completely shut off flow at 95% tank capacity.

Tank Tilt Diagram

☐ A. Check if Overfill installed here

☐ B. Check if Overfill installed at center

C. Check if Overfill installed here ☐



To determine tank tilt, measure the product level at two of the three positions on the diagram above. Write the measurement on the lines beside X, Y, and/or Z. If the overfill device is installed at the end where the product level is greatest, then mark "A" (Low end). If the overfill device is installed in the center, then mark "B" (Center). If the overfill device is installed at the end where the product level is the least, then mark "C" (High end).

Calculate tank tilt using one of the following formulas, depending on where your measurements were taken, and enter that value on the form for "Overall Tank Tilt" (above):

Overall Tank Tilt = X – Z **OR** Overall Tank Tilt = 2 * (X – Y) **OR** Overall Tank Tilt = 2 * (Y – Z)