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| 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 (specify): | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  |
| **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** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **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** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Date next Overfill Device functionality test due** (required every 3 years) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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| Virginia Department of Environmental Quality Logo | | | | | **Triennial Overfill Prevention Equipment Functionality Test**  **TANK TILT DETERMINATION** | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Page 3** | | | |
| Tank tilt must be determined if 30 minute flow restriction ball float valves1 are set at a height greater than 90% tank capacity or shut off devices2 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  Measured with a tank inclinometer | | | | | | | | | | | | | | | Elevation of each end of tank surveyed with a level  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**  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)  A. Check if Overfill installed here  C. Check if Overfill installed here  B. Check if Overfill installed at center  Y  Z  X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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