

GUIDELINES FOR THE TESTING AND REPLACEMENT OF SPILL CONTAINMENT STRUCTURES

In accordance with Section 25284.2, Chapter 6.7 of the California Health and Safety Code (HS&C), spill containment structures (spill containment for the fill riser piping when receiving fuel), must be tested annually. This testing is conducted to verify the integrity of the spill containment structure (spill container, spill bucket, spill box, etc), but does not include vapor recovery spill containers. All spill containers are subject to testing, including containers located within backfill material (direct-bury) and containers located within a secondary containment sump. A 48-hour notification is required prior to conducting spill container testing. The UST owner must submit the test report to this Agency within 30 days of testing.

The Orange County Certified Unified Program Agency (CUPA) regulates Underground Storage Tanks (USTs) in Orange County except in the cities of Anaheim (CUPA), Fullerton (PA), Orange (PA) and Santa Ana (PA). These four cities implement their own UST regulatory programs and must be notified when conducting any kind of testing. The Orange County CUPA recommends testing spill containers during the annual monitor certification and requires testing as follows:

Spill containers located within a **Monitored Fill Sump** (electronic sensor and secondarily tested every 36 months or continuously monitored post 7/1/04); may be tested as follows:

- 1. Prior to testing, remove debris from the container. Inspect the container for obvious tears or a missing/malfunctioning drain plug. Observation of these conditions will result in a failed test.
- 2. The preferred test media is water. Fill the container with water 2 inches below the fill cap. Any other test media must be pre-approved by the district inspector prior to testing.
- 3. Mark the level with paint or a wax pencil or take measurements using a tape measure to the closest 1/8 inch.
- 4. Visually observe level of water at the beginning and end of a 30-minute test period.
- 5. Any observable drop in the water level or in the tape measurement will constitute a failed test.

Spill containers located within backfill material **Direct Bury** and spill containers located within an **Un-monitored Fill Sump** (no electronic monitoring and not secondarily tested), must be tested as follows:

- 1. Prior to testing, remove debris from the container. Inspect the container for obvious tears or a missing/malfunctioning drain plug. Observation of these conditions will result in a failed test.
- 2. The preferred test media is water. Fill the container with water 2 inches below the fill cap. Any other test media must be pre-approved by the district inspector prior to testing.
- 3. Use 3rd party approved testing equipment accurate to 0.002 inches to conduct two consecutive 15 minute tests on each container. A loss or gain of more than 0.002 inches will constitute a failed test.

Spill containers with failed test results, must be replaced or repaired per manufacturer's requirements. This Agency requires failed spill containers to be repaired and/or replaced (includes testing) within 90 days of the initial test date, as follows:

Direct-Bury Spill Containers/Spill Containers located in an Un-monitored Sump

A failed direct-bury spill container or spill container located within an un-monitored sump requires the submission of modification plans and a fee to this Agency. The plans (four sets) must include the scope of work and a site diagram. A district inspector will review the plans and conduct the on-site inspection(s).

Spill Containers located within a Monitored Fill Sump

A failed spill container located within a monitored sump, requires manufacturer approved repair or replacement. A 48-hour notification prior to testing and the submission of test results within 30 days is required. A witnessed retest is at the discretion of the district inspector.

Rev. 9/28/10 HWFORMS/UST/#5