

**SAN BERNARDINO COUNTY
FIRE DEPARTMENT
Office of the Fire Marshal
Hazardous Materials Division
620 South “E” Street, San Bernardino, CA 92415-0153**



**SECONDARY CONTAINMENT TESTING
AND REPORTING REQUIREMENTS
FOR UNDERGROUND STORAGE TANKS**



SAN BERNARDINO COUNTY FIRE DEPARTMENT HAZARDOUS MATERIALS DIVISION

SECONDARY CONTAINMENT TESTING AND REPORTING REQUIREMENTS

Revised April 2015

Purpose: To establish requirements for secondary containment testing (SB989) of Underground Storage Tanks (USTs) within the San Bernardino County, Certified Unified Program Agency (CUPA) jurisdiction.

Authority: California Code of Regulations, Title 23, Division 3, Chapter 16, Section 2637
California Health and Safety Code, Chapter 6.7, Section 25299.2

Requirements:

- Contractor qualifications and written SB989 testing protocols must be reviewed and approved by this CUPA prior to testing.
- **UST Tester Qualifications:**
 - CSLB A License or Tank Tester License.
 - ICC Service Technician Certification.
 - Manufacturer Certifications for testing equipment.
- **UST System Hydrostatic Testing:**
 - Testing equipment must be calibrated and certified to meet a 0.002 inch leak rate threshold.
 - Each hydrostatic test must be no less than 15 minutes in duration at 0.002 inch leak rate.
 - Each secondary containment structure shall be filled with test water to a minimum of 2 inches above the highest product piping penetration fitting.
 - Adding tape, caulking, plastic bags, duct tape, etc., to anything in the testing range is prohibited. The test is “as is”.
 - Testing equipment must be capable of providing electronic and/or hard copy printout of the test results.
 - Testing equipment must be programmed with
 - The correct facility information.
 - Facility address.
 - Testing location (e.g. DSL STP Sump)
 - Correct time of testing
 - A test result of “increase” or “fail” is not considered a passing test.
 - The California State Water Resources Control Board (SWRCB) Secondary Containment Testing Report Form must be completed and shall be submitted with the hardcopy printout test results within 30 days of testing.
 - Failure to submit the hardcopy printout test results with the SWRCB Form to this CUPA within 30 calendar days after the testing event will be cause for rejection of the test results.
 - Removing monitoring equipment from programming during testing must be avoided.
 - In the event monitoring equipment is removed from programming during testing, the monitoring equipment must be returned to programming and retested immediately following the SB989 test.
 - Justification for removing the monitoring equipment from programming must be documented on the SWRCB Form. Monitoring console tapes must be provided with the report form to verify the retest and programming. All monitoring equipment must be programmed to cause positive shutdown of the turbine.
 - All failures shall be identified and documented on the test result page of the SWRCB Form.
 - Document the suspected reason for the failure and any trouble-shooting activity.
 - Include notes indicating if clamps were tightened or test boots were installed.
 - **All UST annular space failures shall be reported to this Department on the day of testing.**

SECONDARY CONTAINMENT TESTING AND REPORTING REQUIREMENTS

Page 2

- Piping Pressure Testing Procedures: 5psi for 60 minutes
 - All gauges shall be calibrated annually. Certification of annual calibration must be present during testing. Gauges shall have a 15 psig maximum pressure reading with 0.5 increments.
 - In lieu of the requirement to maintain certifications of gauge calibration, secondary piping pressure testing may be conducted with the use of dual/redundant gauges. This may be accomplished by manifolding two gauges per tested line, or by affixing a gauge at each terminal end of the tested piping run to ensure pressure consistency readings.
- Flexible piping:
 - Jumper hoses shall be installed and attached during testing to verify that the secondary piping is tight throughout the piping run.
 - At the conclusion of testing, jumper hoses shall be removed at one end and placed at the lowest point in the secondary containment.
 - Schrader valves must be removed at the conclusion of testing to provide for open communication to the monitoring points throughout the UST system. **Failure to complete this last step will result in a violation to the UST owner/operator at their next annual inspection.**
- Rigid piping: Prior to testing, test boots may be installed without a permit if the existing test boots are found to be visibly cracked or missing. Documentation must be made in the comments section of the SWRCB Form.
- **UST System Annular Testing Procedures:**
 - Fiberglass UST's containing less than 20,000 gallons must be tested at -10 inches Hg for 60 minutes.
 - Fiberglass UST's containing 20,000 gallons and greater must be tested at -10 inches Hg for 120 minutes.
 - Steel UST's containing less than 20,000 gallons must be tested at -6 inches Hg for 60 minutes.
 - Steel UST's containing 20,000 gallons and greater must be tested at -6 inches Hg for 120 minutes.
 - Mark "exempt" on the report if the annular is hydrostatically monitored.
- **UST System Repairs:**
 - All repairs (except for tightening clamps and/or connecting and installing test boots) require a construction permit from this Department.
 - To obtain a construction permit, submit an application for UST Construction/Modifications to this Department. Repairs to failed secondary containment structures (other than those allowed above) may not be performed in the course of the secondary containment test. This includes the removal and installation of fuel dispensers.
- **UST Inspection Scheduling:**
 - All testing must be scheduled with this Department.
 - Testing can be scheduled after protocols and qualifications are reviewed and approved by this Department.
 - This Department reserves the right to inspect at any scheduled testing event.
 - Testing shall be conducted at the appointed time and date.
 - All testing shall be conducted during normal business hours at the discretion of this Department.
 - Night, holiday or weekend testing is not allowed.
- **UST Annual Operating Permits/Documentation:**
 - Inspections and testing may be cancelled if the UST Owner/Operator does not have a valid UST operating permit.
 - All test results shall be submitted on current State of California testing forms. Forms from other agencies or obsolete forms will be rejected.
 - Copies of all testing tapes must be attached for review.

Contact the UST Program at (909) 386-8464 for any questions regarding secondary containment failures and/or permit requirements.