



DEPARTMENT OF ENVIRONMENTAL RESOURCES

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GUIDELINES FOR INSTALLATION OF UNDERGROUND STORAGE TANKS

A. General Information

These guidelines are applicable to the installation of hazardous materials Underground Storage Tank systems in Stanislaus County. The guidelines serve as a supplement to other requirements and/or guidelines (e.g. California Fire Code, California Underground Storage Tank Regulations, manufactures' guidelines, etc.). These installation guidelines are for the Department of Environmental Resources; please contact the building and fire departments in the area of installation for their requirements.

1. Two sets of Plans, State Tank and Facility forms along with completed tank monitoring and designated operator forms and the UST application and permit will need to be submitted (Refer to the attached Excel spreadsheet for more details of what must be submitted). *Note: The requested items may be submitted electronically initially to expedite the review and editing process. However, 2 hard copies of the finalized plans must be submitted for review before final approval from this Department. The permit application will need to be signed by both the building department and fire authority that have jurisdiction at the location of installation before the plans can be approved by this Department.*
2. Contractors shall submit, or have on file with the Department of Environmental resources, information verifying that they possess a current State Contractor's License (A, B, C-36, C-61/D-40), Workmen's Compensation Insurance, and Certification by ICC.
3. Underground Service Alert should be contacted at 800.642.2444 prior to the start of excavation.
4. The contractor shall be responsible for ensuring that conditions at the site provide for workplace safety, protection of the environment, and maintenance and integrity of nearby structures.
5. This department must be notified prior to any regulated material being placed into any underground storage tank. **Onsite Facility employees must receive training** pursuant to the requirements of Title 23 of the California Code of Regulations section 2715(c) **prior to regulated materials being placed into any underground storage tanks and an**

official "Facility Employee Training Certificate" must be submitted to this department as proof. Under no circumstances shall any regulated material be placed into any underground storage tank system without the written approval of this department.

6. All tanks, piping and equipment shall be installed and tested in accordance with the manufacturer's recommendations/guidelines and the California Underground Storage Tank Regulations.
7. New or revised Hazardous Materials Business Plan if appropriate.
8. The Underground Storage Tank Permit is good for 6 months from the plan submittal.

B. INSPECTIONS

Appointments for construction inspections must be made a minimum of 48 hours in advance to allow time to coordinate scheduling and rescheduling if needed. This notification shall be made on a business day. If testing will be scheduled on a Monday or Tuesday, notification must be received no later than Wednesday or Thursday morning, respectively, the week prior. Call the Hazardous Materials Inspector for your area at 209-525-6700 to schedule an inspection or use the UST Inspector email group DER-UST-Inspectors@envres.org

1. **FIRST INSPECTION – TANK SET**
 - a. Record and verify the U.L. number of the tanks, annular vacuum on each tank or verify tank hydrostatic monitoring if applicable, tank sizes, view holiday test (if required), fiber liner and backfill material.
 - b. Bedding and backfill material for all tanks and pipelines is limited to clean, washed sand or pea gravel with a minimum bed depth of 12".
 - c. Witness tanks being set into the excavation.
 - d. Tanks properly sloped toward the annular space.
2. **SECOND INSPECTION – PRIMARY SYSTEM TEST (Pressure gauges must be in good working order and calibrated to the appropriate scale.)**
 - a. Check the pressure of all primary piping for 30 minutes or as indicated by the manufacturer. A passing test is achieved with zero pressure loss. Gauges confirmed to zero by depressurizing lines after test.
 1. 5 PSI for vent/vapor recovery systems
 2. 150 percent of operating pressure (or 50 PSI) for pressure systems.
 3. check the slope of the piping
 - b. Witness the soaping of all piping, joints, and fittings.

- c. Verify the water test at all sumps. A passing test is recorded as zero liquid loss for one hour, with all seams and penetrations exposed for viewing.
3. THIRD INSPECTION – SECONDARY SYSTEM TEST
- a. Check all secondary piping. A passing test is achieved with zero pressure loss.
 - 1. 5 PSI for a minimum of 30 minutes.
 - b. Witness the soaping of all piping, joints, and fittings.
 - c. Lake test sumps and overflow containment.
 - d. Witness the fiberglass coating of any tank top bung/bung cap openings, if not contained in a sump.
4. FOURTH INSPECTION - FINAL
- a. Witness the operation of all equipment for the leak monitoring system as installed.
 - b. Witness ball float/flapper valve proper installation or overflow prevention alarm operation.
 - c. Witness the emergency shut-off switch operation.
 - d. Witness the line leak detector and dispenser sump operation and positive shut down.
 - e. Witness proper operation of overflow buckets.
 - f. Verify the precision test is complete.

OPERATION OF ANY UNDERGROUND STORAGE TANK WITHOUT HAVING COMPLETED ALL CONSTRUCTION INSPECTIONS AND WITHOUT HAVING AN OPERATING PERMIT IS A VIOLATION OF CALIFORNIA HEALTH AND SAFETY CODE, DIVISION 20, CHAPTER 6.7, SECTION 25299.