



## HAZARDOUS MATERIALS MANAGEMENT DIVISION

### UNDERGROUND STORAGE TANK GUIDELINES TO CLOSURE IN PLACE

NOTE: This Division strongly urges applicants to contact the local Fire Department Jurisdiction and the local Building Department prior to the closure of any Underground Storage Tank (UST). Other agencies may have additional requirements and/or local restrictions may be more stringent.

ATTENTION: THE COUNTY OF RIVERSIDE, DEPARTMENT OF ENVIRONMENTAL HEALTH, HAZARDOUS MATERIALS MANAGEMENT DIVISION, PROHIBITS CLOSURE IN PLACE UNLESS THE UST OWNER IS ABLE TO PROVIDE CERTIFIED DOCUMENTATION THAT UST REMOVAL WILL COMPROMISE THE STRUCTURAL INTEGRITY OF AN APPROVED STRUCTURE.

#### A. General Information

1. A completed permit application must be submitted to the Division. Permit fees for UST closure are required.
2. The State Contractors License Board requires contractors who perform closure on USTs and/or remove piping to have the **Hazardous Substance Certification** and one of the following licenses: General Engineering "A"; Limited Specialty C-61/D-40 for USTs and pipelines; Pipeline Contractor C-34 for pipelines only; or General Building "B" (limited).
3. It is the responsibility of the UST owner or duly authorized representative, to notify other governmental agencies that may have applicable permit requirements. This includes, but is not limited to, the following: Local Fire Agency; Local Building Department; and Air Quality Management District (AQMD).
4. Between cessation of use/storage and the actual closure, monitoring shall be continued as required by the operating permit.
5. The permitted (i.e. UST owner, contractor) shall be responsible for site safety.

#### B. Closure Requirements

1. A completed UST closure application and four (4) copies of a UST Closure work plan must be submitted and applicable closure fees paid. A closure permit, valid for ninety (90) days, will be issued upon RECEIPT of the work plan. If closure is not completed within ninety (90) days, the closure permit shall expire. Additional fees will be assessed for a new closure permit.
2. Applicant must demonstrate, to the satisfaction of the Division, whether or not an unauthorized release has occurred. This demonstration must be based upon results of approved soil and/or water samples collected in the presence of Division personnel.
3. All field activities must be scheduled with the Division at least **FIVE (5) WORKING DAYS IN ADVANCE** of the proposed work.

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4. The sample analysis must be performed by a California State Certified Laboratory. The sample analysis, along with the Division Sample Receipt form and chain of custody, must be received by the Division within thirty (30) days.
5. Soil samples shall be taken below the UST at a minimum of 2 feet and 6 feet below the fill end of the tank, and 2 feet below the opposite end of the tank. For closure in place, slant borings may be required and the number of samples required will vary depending on the site. Further, separate samples for each 20 linear feet of piping, and under each dispenser, shall be collected at a depth of at least 2 feet. It is strongly recommended that additional 6 foot samples be collected at each piping and dispenser sampling location. Division personnel may require additional sampling.
6. The soil samples shall be analyzed for all constituents of the previously stored hazardous substances and their breakdown constituents or transformation products according to the Division form entitled "Laboratory Analysis for Samples Collected at UST Sites". The detection limit, in accordance with this form, shall be reported to the Division in accordance with Article 5 of the California Underground Storage Tank Regulations, Title 23, Division 3, Chapter 16, California Code of Regulations.
7. The Division will evaluate all sample results and determine if any further corrective action is required.
8. If approved for Closure in Place, all liquids, solids, and sludge shall be removed and handled according to the provisions of Chapter 6.5, Division 20 of the Health and Safety Code and Title 22, Chapter 32, Section 67383.1 of the California Code of Regulations. The UST shall be properly cleaned, which usually requires the pressure washing/rinsing of the UST and removal of the contents via a vacuum type pump system that is designed to safely handle flammable liquids. The Division can provide a list of licensed hazardous waste haulers/tank rinsing companies.
9. Flammable vapors must be purged from the UST and the UST must be inerted to prevent an explosion or fire. The Division must verify LEL is < 10% prior to the inerting of the UST with 22.2 lbs. of dry ice per 1,000 gallons of UST capacity. The UST owner shall ensure a UST Closure Certification Form is properly completed and submitted to the Division. The local fire and AQMD regulations may be more restrictive.
10. Promptly following rinsing and purging of flammable vapors, the UST shall be completely filled with an inert solid (i.e. approved concrete slurry mix). Flammable vapors shall be continuously monitored and maintained at a level below 10% of the LEL during filling of the UST.
11. All associated piping must be removed. Product or residue spillage must be prevented.

*C. Work Plan Guidelines*

1. A work plan must be submitted (with permit application) to the Division prior to UST closure.

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2. The work plan should include the following information:
- A. Site Description: the physical address along with a site plot plan.
  - B. On-Site Security: indicate who will be on site (what agencies, contractors, etc.), and how site security will be maintained.
  - C. Contacts: Indicate the responsible party's name and phone number, contractor's name and phone number.
  - D. Treatment of UST(s) prior to closure--indicate the following:
    - 1) How the UST(s) will be cleaned. Indicate name and credential of certified contractor, as well as final destination of rinsate.
    - 2) How you will inert the UST. Indicate the quantity of dry ice to be used, and that it will not be placed into the UST until the Division representative is on site.
    - 3) If the UST(s) are to be saw cut. If so, this needs to be detailed and approved by the local fire jurisdiction.
    - 4) Air/vapor monitoring—type of monitoring equipment to be used and date of last calibration.
  - E. Depth to groundwater: region specific. If UST is in ground water, indicate safety precautions that will be taken.
  - F. Equipment to be used on site:
    - 1) Heavy equipment
    - 2) Sampling: indicate the type of equipment to be used to gather the soil/water samples. Ensure equipment is able to reach at least 6' below the bottom of the UST, piping, and dispensers. Indicate the type of container that will be used to hold the samples. Demonstrate how contamination of samples is to be avoided. Provide the name of the California certified lab that will be analyzing the samples. Indicate when the samples will be analyzed and how you will hold the samples in the interim. Ensure a chain of custody accompanies the samples to the lab.
  - G. Safety-- indicate the following:
    - 1) The type of personal protective equipment to be required for all persons on site.
    - 2) The safety items that will be available on site (fire extinguisher, first aid, etc.).
    - 3) The nearest emergency medical facility to be used in the event of an accident or emergency.
    - 4) That all tools to be used to clean the exterior of the tank will be non-sparking. Give examples and be specific.
    - 5) Whether shoring is necessary/required.
    - 6) The person who will be responsible for safety (Safety Officer).
    - 7) The presence of any overhead hazards (electrical lines, etc.). Indicate how the hazard will be addressed/mitigated.
    - 8) The presence of any underground hazards (gas pipes, sewer lines, water mains, etc.) and how the hazard will be addressed/mitigated.

**NOTE: THIS DOCUMENT IS FOR GUIDANCE ONLY AND IS NOT INTENDED TO SUPERSEDE ANY SAFETY OR OTHER LEGAL REQUIREMENTS. OWNER / CONTRACTOR RETAINS ALL RESPONSIBILITY ASSOCIATED WITH ACTIVITIES SURROUNDING THE SAFE AND LEGAL CLOSURE OF THE TANK(S).**

*Revised 8/06*

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