UNDERGROUND STORAGE TANK (UST) NEW AND MAJOR REPAIR INSTALLATIONS

PERMIT PROCESS

Installation of USTs for the storage of hazardous materials requires either an installation permit or a combined authority to construct (ATC) issued by our Department.

APPLICATION

An application to install a UST which will be used to store gasoline or other volatile material requires the use of a joint application form for County Environmental Health and County Air Pollution Control District (APCD). A State Form A for the facility and a Form B for each tank system must accompany the application. Three sets of construction plans must be submitted. One set for our Department, one set for APCD, and one set for the contractor.

At the time of application, the County Environmental Health permit fee and the APCD filing fee must accompany the application. Projects involving the installation of USTs storing only semi-volatile material, such as diesel fuel, do not require a joint application, the additional set of construction plans, or the APCD filing fee.

Applications and construction plans must contain sufficient information and detail regarding the type of tanks, piping, monitoring system, vapor recovery system, overfill prevention, spill protection, and other UST equipment, including manufacturer's name and model number.

APPLICANT

Applications to install UST systems may be filed by contractors, consultants, or individuals. However, an application cannot be approved or a permit issued until the installation contractor is named and approved by our Department.

The contractor must provide proof that he/she possesses an unexpired license issued by the Contractor's State License Board with a hazardous certification, usually abbreviated as "HAZ" on the license. Licenses issued prior to 1992 may be approved if

they are Class A or the grandfathered Class C-61/D-40. A Class B licensee may be approved to remove or install UST systems only in conjunction with constructing an onsite building. Other license classes are included in the State Water Board document LG-48-4.

In addition to the above license, an installation contractor must provide proof that the installer has been adequately trained as evidenced by a certificate of training issued by all equipment manufacturers.

PERMIT/COMBINED AUTHORITY TO CONSTRUCT (ATC)

The permit or ATC does not supersede the requirements of Uniform Fire and Building Code permits required by the local agencies having jurisdiction. Installation application approval and combined ATC issuance is coordinated with APCD and other local agencies. Upon concurrence of the other oversight agencies, our Department issues an ATC. In cases where APCD has no involvement, our Department issues an installation permit with a more streamlined format, again upon concurrence of the other local oversight agencies. An installation ATC or permit is normally issued for a period of six months. If an ATC or permit expires prior to the start of the installation project, the ATC or permit can be reissued for reasonable cause upon written request.

Additional Installation information and requirements

The UST system must retain the ability for secondary containment testing after installation, this includes the tank and the piping.

Ensure the submitted proposal demonstrates compliance with CCR Title 23 definition of cathodic protection. Wrapped single wall steel piping (such as UST fill, vapor, ATG and annular space risers), powder coated steel secondary containment, or stainless steel band clamps for secondary piping, will no longer be accepted. These items do not meet the definition of CCR Title 23, Section 2635 (a)(2) for cathodic protection.

Dispenser Containment is required to be equipped with electronic leak detection sensors connected to the Leak Monitoring Console.

Due to changes in California Air Resources Board (ARB) Regulations, CCR Title 23, required overfill prevention equipment has been directly effected. Overfill prevention valves are no longer acceptable to the ARB because this equipment does not meet new Phase I vapor recovery standards.

The following recommendations may soon be required by State Water Resources Control Board or by our proposed local ordinance. We strongly recommend the installation of the following items as they provide greater protection and may be required retroactively.

- Secondary Containment for all Tank penetrations
- Double wall vent and vapor lines, with crash protection posts for vent risers
- Watertight tank sump lids and watertight traffic grade manways
- Pipeline leak detectors for systems with positive shutdown

Third Party Approvals by independent testing organizations are required on all required equipment and sealants. These approvals are not required to be submitted if on file in our office or listed in the current copy of SWRCB document LG-113.

Any replacement of required equipment requires a permit from this office.

NEW UNDERGROUND STORAGE TANK SYSTEM AND MAJOR MODIFICATION APPLICATION INSTRUCTIONS

The attached application shall be completed and submitted with the appropriate fees.

Complete the following as listed:

1. One (1) State Form “A” must be completed for each site, one (1) State Form “B” must be completed for each tank and one (1) State Form “C” must be submitted for each site.

2. An 8 ½ “ x 11” site map shall be submitted with the application.

3. Three (3) sets of blue print plans must be submitted to this office.

4. The plans must include:

    - Plot plan, including buildings, streets, tanks, dispenser island and piping.

    - Tank details including manufacturer, size, and construction.

    - Piping schematic showing location of product lines, vent lines and vapor recovery lines.

    - Cross section view of the tank.

    - List of components for the tank system including monitoring system, overspill containers, emergency shut-off, extractor assembly, tank leak detectors, product line leak detectors, liquid level gauges, etc.

5. A combined Authority to Construct application

No construction shall begin until a Permit to Construct has been issued.

Please contact Aaron LaBarre at (805) 781-5595 with any questions.

NEW UNDERGROUND STORAGE TANK SYSTEM AND MAJOR MODIFICATION APPLICATION

Facility

Facility Name: _____ Phone: _____

Site Address: _____ City: _____

Owner

Owner's Name: _____ Phone: _____

Owner's Address: _____ City: _____

Contractor

Company:	Phone #:
Address:	City:
Contractors License No.:	Zip:

Applicant Name:	Signature

Date:

For Local Use Only

Date Received:	
Check #:	
Fee amount:	Account #:
SR #:	Received By:

NEW UNDERGROUND STORAGE TANK SYSTEM AND MAJOR MODIFICATION EQUIPMENT DESCRIPTION

TANK DESCRIPTION

of Tanks to Install: _____ Tank Manufacturer: _____

TANK SIZE		PRODUCTS STORED
_____	Gals.	_____
_____	Gals.	_____
_____	Gals.	_____
_____	Gals.	_____

TANK CONSTRUCTION

- O Double Wall Fiberglass
- O Double Wall Steel w/fiberglass coating
- O Double Wall: steel primary tank, fiberglass secondary tank

LEAK MONITORING SYSTEM

Console Manufacturer _____ Console Model # _____

Sensors installed in:
- O Tank Annular Space Sensor/Manufacturer & Model # _____
- O Tank Turbine Sumps Sensor/Manufacturer & Model # _____
- O Tank Fill Sumps Sensor/Manufacturer & Model # _____
- O Dispenser Pan Sumps Sensor/Manufacturer & Model # _____

Positive Shut Down O Yes O No

PIPELINE SYSTEM

O Pressure O Suction O Gravity

PIPELINE LEAK DETECTOR

- O Mechanical Make & Model # _____
- O Electronic Make & Model # _____

PIPING CONSTRUCTION: PRODUCT LINES

- O Double Wall Fiberglass
- O Double Wall Flex Pipe

Pipe Manufacturer: _____ Model #: _____

PIPING CONSTRUCTION: VAPOR AND VENT LINES

O Double Wall Fiberglass

O Double Wall Flex Pipe

Pipe Manufacturer: _____ Model #: _____

OVERSPILL CONTAINER WITH DRAIN VALVE

Manufacturer: _____ Model #: _____

OVERFILL PREVENTION ALARM

Manufacturer: _____ Model #: _____

Associated Equipment with Manufacturer: _____ Model # _____

FLOAT VENT VALVE

Manufacturer: _____ Model #: _____

DISPENSER CONTAINMENT

Manufacturer: _____ Model #: _____

TANK SUMP

Manufacturer: _____ Model #: _____

FILL SUMP

Manufacturer: _____ Model #: _____

AUXILLARY SUMPS (TANK GAGUE RISERS, ETC)

Manufacturer: _____ Model #: _____

AUTOMATIC TANK GAUGE

Manufacturer: _____ Model #: _____

PENNETRATION SEALANT

Manufacturer: _____ Model #: _____

PRECISION TESTING COMPANY

Name: _____ Phone #: _____

Address: _____ City: _____

NEW UNDERGROUND STORAGE TANK SYSTEM AND MAJOR MODIFICATION CONSTRUCTION INSPECTIONS FOR DIVISION OF ENVIRONMENTAL HEALTH

Appointments for construction inspections must be made a minimum of **48 hours** in advance. Call the hazardous materials inspector for your area at (805) 781-5544, to schedule an inspection.

A. FIRST INSPECTION

1. Record and verify the U.L. number of tanks, annular vacuum on each tank, tank sizes, view holiday test, bedding and backfill material. Test the vacuum on each tank, a passing test is recorded as zero vacuum loss.
2. 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".
3. Witness tanks being set into the excavation.
4. Tanks properly sloped toward the annular space.

B. SECOND INSPECTION

The second inspection is required after piping has been connected to the tanks. Pressure gauges must be in good working order and calibrated to the appropriate scale.

1. Check the primary piping.
2. Check the pressure of all piping for 30 minutes or as indicated by manufacturer. A passing test is achieved with zero pressure loss.
    * 5 PSI for vent, vapor recovery, and suction systems.
    * 75 PSI for pressurized systems.
    * Check slope of piping.
3. Witness the soaping of all piping, joints, and fittings.
4. Verify the water test of the dispenser and tank sumps 12" above the highest penetration. A passing test is recorded as zero liquid loss for one hour, with all of the seams and penetrations exposed for viewing.
5. Vacuum test on each UST's annular space.

C. THIRD INSPECTION: Before concrete paving installation

1. Check the secondary piping. A passing test is achieved with zero pressure loss.
    * Pressure test at 5 psi minimum for 30 minutes.
    * Witness soaping of all piping, joints, and fittings.
2. Pressure the tank, vent, and vapor for primary and secondary piping. A passing test is achieved with zero pressure loss.
    * Test at 5 psi for 30 minutes or as indicated by manufacturer.
    * Witness soaping of all joints, fittings, risers, and bungs.
3. Complete vacuum test on each tank's annular space, before concrete.
4. Water test Overspill containment.
5. Witness the fiberglass welds of the tank sumps top hats.
6. Witness the fiberglass coating of any tank top bung/bung cap openings, if not contained within a sump.
7. Witness the placement of required approved non corrodible risers for ATG probes and annular risers, (if our recommendation to install sumps for these was not accepted by owner).
8. Witness the proper approved installation of the Vent Line/Vent Riser cluster.
9. Witness the installation of the Float Vent Valve at 90% or 95% if installed with an Audible Visual Alarm installed near the UST fill pipe.
10. Vacuum test on each UST's annular space.

D. CALIFORNIA UST COMPLIANCE CERTIFICATION INSPECTION

1. Witness the installation of all equipment of the leak monitoring system is installed and operational.
2. Witness the operation of the Overfill prevention Alarm if applicable (see third inspection)
3. Emergency Shut Off switch operational.
4. Product Pipeline Leak Detector installed and operational.
5. UST compliance certificate is issued.
    a. Allows fuel delivery for final inspection.

E. FINAL INSPECTION: After concrete paving installation

The final inspection is an inspection of the entire system. All pumps, accessories, monitoring systems, dispensers, and electrical must be installed and operational at this time. Items 9,10,11 are identical to inspections: A1, B 2,4, C 1,2.

1. Verify the precision test is completed. Precision test must verify the integrity of the Tank (to required product level) primary piping, shear valves, and pipeline leak detectors.
2. Inspect all accessory equipment including overspill container.
3. Inspect manway openings to insure they are crowned above normal grade.
11. Check monitor manway covers to be fluid tight and tamper proof.
12. Complete a routine underground storage tank inspection form.
13. Have the monitoring system and probes demonstrated to verify correct installation and operation.
14. Verify positive shutdown.
15. Pressure test all secondary containment piping.
16. Vacuum test each UST's annular space.
17. Verify the water test of the dispenser and tank sumps 12" above the highest penetration.
18. Issue Operating Permit.

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