

HAZARDOUS MATERIALS MANAGEMENT DIVISION

**UNDERGROUND STORAGE TANK
GENERAL PLAN REVIEW**

The plan review of new installations, upgrades, repairs, or modifications includes, but is not limited to the following items:

A. STATE AND LOCAL AGENCY REQUIREMENTS

1. New tank construction and upgrades must begin within six (6) months of stamped approval date and be completed within one (1) year of stamped approval date on plans to remain valid.
2. Repairs and modifications must begin within 30 days of the stamped approval date and completed within 90 days of the stamped approval date on plans to remain valid.
3. Any changes made to the original approved plans must have a written addendum submitted & approved by this department. The addendum(s) may be subject to an hourly charge for review and approval.
4. Initial review of plans shall be made within 20 working days from the date of application.
5. All leak detection equipment shall be on the State's approved equipment list. All underground storage tank (UST) equipment shall meet voluntary consensus standards.
6. The Hazardous Materials Management Division (HMMD) shall be contacted a minimum of five (5) days prior to installation, upgrade, repair or modification of the underground storage tank system(s).

B. PLAN SUBMITTAL REQUIREMENTS

- ___ 1. Submit **four (4)** complete sets of plans, drawn to scale.
- ___ 2. Ensure proper fees have been submitted for each tank.
- ___ 3. Copy of plan check application attached to plans.
 - a. Facility DBA

b. Facility Address

___ 4. Contractor (include license type & number)

C. GENERAL PLAN INFORMATION

- ___1. Provide a plot plan and vicinity map, drawn to scale.
- ___2. Provide a drawing indicating the location of building/structures on site, including the location of existing and proposed underground tank(s).
- ___3. Provide a drawing indicating the location of all underground utility lines (e.g. water, electrical, gas and sewage) within 200 feet of the tank installation site. You may wish to contact Dig Alert at (800) 422-4133.
- ___4. Indicate the highest anticipated level of groundwater and the source of this information (contact the local water purveyor for information or Riverside County Flood Control at (951) 955-1200).

D. TANK INFORMATION

- ___1. Provide the name of the tank manufacturer(s) and the size of the tank(s).
- ___2. Specify the materials used in the construction of the tank
 - a. Steel
 - b. Plasteel
 - c. Fiberglass
 - d. Glasteel
 - e. Other
- ___3. Indicate that the tank(s) shall be installed as per manufacturer's specifications.
- ___4. Indicate that the tank construction/testing shall be in accordance with nationally recognized codes.
- ___5. State what tests (if applicable) are to be completed prior to placing tank system(s) into operation.
 - a. Holiday
 - b. Pneumatic
- ___6. Provide a statement that the underground storage tank system(s) shall be compatible with product to be stored.
- ___7. Provide a detailed drawing of the tank(s); side view, end view, and top view.
- ___8. Indicate the location of required strike plates under all accessible primary containment openings.
- ___9. Provide the name(s) of the manufacturer(s) for the overfill protection device(s) to be used and provide a detailed drawing; side view. Indicate the highest level of overfill protection (90-95%).

- ___10. Indicate the approved tank test method to be completed prior to operation of the tank(s) and that the fuel level(s) shall be at the highest level of overfill protection (90-95%).
- ___11. Indicate the type of backfill material to be used (Note: material should not mask, absorb, or react with the hazardous materials upon an unauthorized release).
- ___12. Describe the corrosion protection method, if applicable, for underground tank system(s).

E. PIPING INFORMATION

- ___1. Provide the name of the piping manufacturer and materials used in the construction of the piping.
- ___2. Provide a statement indicating new piping shall be installed as per manufacturer's specifications.
- ___3. Indicate all materials to be used (piping, coupling, sealant, etc.) shall be compatible and used as per nationally recognized codes.
- ___4. Indicate the type of piping system; remote fill, gravity, pressure or suction.
- ___5. Provide the name of the manufacturer for the spill container and provide a detailed drawing; side view. The spill container must meet the following requirements:
 - a. A minimum capacity of five (5) gallons.
 - b. A drain valve that allows drainage of the collected spill into the primary container or provide a means to keep spill container empty.
 - c. Protected from galvanic corrosion, if made of metal.
- ___6. Provide the name of the manufacturer and the model number for the dispenser containment box(es).
- ___7. Provide a detailed piping diagram including proposed secondary containment – e.g. product line(s), vent line(s), and dispenser containment box (es).

F. CONTINUOUS MONITORING DEVICE SYSTEM

- ___1. Provide the name of the manufacturer and the model number for the continuous monitoring device system.
- ___2. Provide a statement indicating the continuous monitoring device shall be installed as per manufacturer's specifications.

- ___3. List all functions the continuous monitoring device system will be programmed to perform:
 - a. Monitoring of annular space.
 - b. Monitoring of product piping sump (specify if positive shut down of turbine will occur upon detection of liquid/release).
 - c. Monitoring of fill sump.
 - d. Automatic tank gauge (ATG) – fuel level indicator.
 - e. Electronic overfill protection (specify 90 or 95% level). Indicate location of audible/visual alarm for driver.
 - f. Monitoring of dispenser containment box (indicate electronic or mechanical).
- ___4. Provide a statement indicating the continuous monitoring devices (sensors, ATG, etc.) are approved for use with the continuous monitoring system and list the model numbers of each device.
- ___5. Provide a statement that the electrical supply wiring shall be hardwired to the junction/breaker box.
- ___6. Indicate the type of automatic line leak detection device(s) to be installed for the pressurized piping system(s), include the manufacturer name and the model number:
 - a. mechanical line leak detector
 - b. electronic in-line leak detector
 - c. sump sensor

G. ADDITIONAL INFORMATION

Indicate that the following requirements are understood and shall be met, prior to the operation of the tank system(s):

- ___1. All site inspections shall be scheduled a minimum of five working days in advance of requested date.
- ___2. The Hazardous Materials Management Division (HMMD) shall inspect tank system(s) at three (3) separate construction phases:
 - a. Tank(s) & primary piping hydrostatically or pneumatically tested for 30 minutes.
 - b. Inspection of all secondary containment, including testing, in accordance with manufacturer's guidelines. All sump(s) & dispenser containment box (es) shall be hydrostatically tested for 30 minutes.
 - c. Final inspection, including all portions of the leak detection system.

- ___3. Tank system(s) integrity tests shall be forwarded & approved by the HMMD (Note; Initial delivery of fuel requires approval by HMMD).
- ___4. State Water Resources Forms A, B, and C shall be completed & submitted to the HMMD.
- ___5. An unauthorized release response plan must be submitted & approved by the HMMD.
- ___6. Certificate of financial responsibility submitted to the HMMD.
- ___7. Payment of all applicable UST operating fees shall be submitted to the HMMD at the final inspection.

Please contact one of the offices listed below to obtain information regarding any questions you may have:

**County of Riverside • Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division**

Corona Office

2275 S. Main St. #204
Corona, CA 92882
(951) 273-9143 Phone
(951) 520-8319 Fax

Hemet Office

800 S. Sanderson Ave. #102
Hemet, CA 92545
(951) 766-6524 Phone
(951) 791-1778 Fax

Indio Office

47950 Arabia St. #A
Indio, CA 92201
(760) 863-8976 Phone
(760) 863-8303 Fax

Riverside Office

4065 County Circe Dr. #104
Riverside, CA 92503
(951) 358-5055 Phone
(951) 358-5017 Fax

**HAZARDOUS MATERIALS MANAGEMENT DIVISION
UNDERGROUND STORAGE TANK PLAN CHECK FEE CATEGORIES**

The following information is applicable to those submitting Underground Storage Tank (UST) plans to this agency for review. The appropriate category must be indicated on the plan check application according to the information provided below.

1. New Installation & Upgrade includes but is not limited to the following:

- Installation of new underground storage tank system.
- Installation of dispenser containment.
- Installation of double-wall piping.
- Installation of sump around turbine.
- Installation of electronic in-line leak detector with positive shutdown of turbine.
- Installations of striker plates beneath tank openings, overfill protection, and spill containment.
- Installation of lining or bladder into a steel, single-wall tank.
- Installation of cathodic protection system.

Note: Any work intended to meet the 1998 upgrade requirements as indicated in Article 6 of the California code of Regulations, Title 23, shall require a permit to upgrade from this agency.

New Installation & Upgrade Fee(s) –

A.	First Underground Storage Tank System	\$1,073.00
B.	Each Additional Underground Storage Tank System	\$358.00

These fees allow nine (9) hours for the first UST system and two (2) hours for each additional UST system for plan review, inspection, and sampling activities. Additional time required to complete these activities will be charged at the consultation rate of **\$189.00** per hour.

2. Repair & Modification includes, but is not limited to the following:

- Repair of a damaged portion of an underground storage tank system.
- Alteration of method of operation or monitoring of an underground storage tank system through structural additions or deletions to that underground storage tank system.

Repair & Modification Fee(s) –

A.	Underground Storage Tank System per site	\$714.00
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This fee allows four (4) hours for plan review, inspection, and sampling activities. Additional time required to complete these activities will be charged at **\$189.00** per hour.