COUNTY OF SANTA BARBARA ◆ CERTIFIED UNIFIED PROGRAM

225 Camino del Remedio, Santa Barbara CA 93110
◆ (805) 681-4935 ◆ Fax (805) 681-4901

2125 S. Centerpointe Parkway, Santa Maria, CA 93455
◆ (805) 346-8460 ◆ Fax (805) 346-8485

REQUIREMENTS FOR THE REMOVAL OF UNDERGROUND HAZARDOUS MATERIALS STORAGE TANKS

The following guidelines must be followed to satisfy Santa Barbara County CUPA requirements when removing underground hazardous material storage tanks in Santa Barbara County. Please note local fire agency, Cal OSHA, Building/Planning Department, and Air Pollution Control District requirements also apply to this activity.

1. PERMIT APPLICATION - The tank owner/contractor must fill out the "Application to Permanently Close/Remove an Underground Hazardous Materials Storage Tank" (UST Form 307), and return the form with the permit fee to the CUPA. An approved application is valid for 90 days from date of issuance. All laws, regulations and Departmental policies in effect at the time the tanks are actually removed must be adhered to. The application packet must include:

- **a.** Either UST Form B, or printouts of the UST submittal elements on CERS. If no CERS submittals exist, utilize UST Form B. Abandoned/discovered USTs at sites without CUPA permits may utilize page 2 of UST Removal application Form 307.
- **b.** A site specific Health and Safety Plan
  - **1.** Plan must describe how you intend to cut into/on the UST(s), if applicable
  - **2.** Plan must describe how you intend to inert the UST(s) and make it safe for transportation
  - **3.** Plan must list all equipment and machinery that will be used to lift the UST(s) and their relative capacities
  - **4.** Plan must be certified by an industrial hygienist, marine chemist, or certified safety professional at the discretion of the CUPA if site specific circumstances demand a heightened level of safety awareness based on the size of the tank, product previously or currently stored, and type of activity involving the UST(s)
- **c.** A Sampling Plan
- **d.** A plot plan/site plan meeting the requirements of 23 CCR 2711(a)(8) for known UST components

2. SCHEDULING THE REMOVAL - After the application has been approved, the owner/contractor shall arrange a time with the assigned Santa Barbara County CUPA Hazardous Materials Specialist to witness the removal of the tank(s). **Please allow one week lead time for an appointment**. The tank(s) shall be excavated, isolated, cleaned, purged (**but not inerted)**, and ready to pull at the appointment time and when the Hazardous Materials Specialist arrives. Ensure the local fire department has been notified of the UST removal date and time.

3. EQUIPMENT USE - WORKER SAFETY - All cables or chokers, grounding equipment, lifting machinery, etc. shall be of sufficient grade or rating to handle the weights and conditions at the tank site. Please list machinery/equipment and their relative capacities in the Health and Safety Plan (see section 1b). Employers and workers at the site shall comply with all Cal OSHA/Federal

OSHA requirements including personal protection, safety, training, and safety planning rules. The Hazardous Materials Specialist will not permit removal activities that pose imminent hazard to the public or site personnel. The site safety plan must be on-site and available for review.

4. CONTRACTOR REQUIREMENTS - All tanks/piping must be removed by a State licensed contractor as stated in the State Water Board LG 48-5.

5. REQUIRED ON-SITE SAFETY PRECAUTIONS

a. Smoking, use of open flame, and tools or other sources of ignition shall be prohibited within 50 feet of tank areas.

b. Use of chains to pull UST(s) will not be allowed. Chokers or wire cables shall be used.

c. Tools used during removal process shall be of non-sparking materials, this includes tools used to remove dirt from the exterior of the UST(s).

d. A minimum of two State Fire Marshal approved 2A-40 BC rated fire extinguishers shall be on-site with certification of service within the previous 12 months attached.

e. The UST excavation area shall be barricaded/fenced to prohibit access by unauthorized persons.

f. If applicable, prior to cutting on/into the UST(s), the applicant shall be responsible to provide a properly trained, qualified individual to use an intrinsically safe, UL listed approved combustible gas indicator to test for flammable vapors (LEL) present within the excavation area and at three different UST openings at three different levels (top, center, bottom). **The LEL taken at the UST openings, at the three different levels, shall be below 5% prior to cutting operations. Oxygen levels must be below 11%.**

g. Air purging, vacuuming, and high-pressure water rinsing equipment shall be bonded and grounded to prevent the accumulation of static electricity. Metal underground tanks shall be bonded to the above-described equipment. When working on fiberglass tanks the equipment shall be properly grounded.

6. TANK CLEANING - All liquids, sludges, muds, semi-solid material inside the UST(s) must have a hazardous waste determination documented and must be removed from the UST(s) prior to the UST(s) removal. Liquids, sludges, muds, semi-solid materials must be properly disposed of and documentation of their proper disposal submitted to the CUPA.

**NOTE: In certain cases, the UST(s) may be removed with material still inside the UST(s) and sent to an appropriate disposal facility. These cases will be examined on a case-by-case basis.*

If there is no installed man-way on the tank, or there are not enough accessible UST(s) openings, or the tank's openings are rusted shut or otherwise inaccessible and the UST(s) need to be cut on/into, **a cold cutting, non-sparking tool** shall be used to cut a man-way or series of man-ways if necessary.

The dimensions of the man-way shall not be less than 24" X 24'' at the appropriate location(s) to facilitate cleaning and visual inspection of the UST(s) interior. Large UST(s) may require multiple man-ways to ensure that all interior areas of the UST(s) are visible for inspection. **You must notify the local fire department if you plan on cutting on/into the UST(s) and obtain any approvals for cutting and provide documentation of approval to the CUPA.**

A minimum of one percent (1%) of the UST(s) capacity shall be used to back flush product piping into the UST(s) and another three percent (3%),at a minimum, shall be sprayed into the UST(s) to clean all surfaces using a high pressure (minimum 2,000 psi) multi-directional nozzle. The use of a detergent may be necessary to break up and remove sludge, mud, and product.

All contaminated wash water shall be handled, transported, and disposed of as a hazardous waste. A State Department of Toxics Substances Control registered hauler and hazardous waste manifests must be used in this process.

At the discretion of the CUPA, a certified industrial hygienist, marine chemist, certified safety professional may be required to certify that the UST(s) is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris and certify the UST(s) as clean.

7. TANK INERTING - UST(s) containing residual flammable vapors or that had contained flammable liquids must be inerted and monitored via one of the following methods:

a. Dry Ice Method (*Granular dry ice recommended): For each 1000 gallons of UST capacity, twenty (20) pounds of dry ice shall be placed in the UST through the fill opening. All UST openings shall be capped/plugged. One opening shall have a maximum of ¼ inch and minimum of 1/8 inch opening for pressure equalization.

b. Pursuant to local fire agency requirements, and/or OSHA requirements.

c. A certified industrial hygienist may certify another method of UST(s) inerting (i.e. nitrogen inerting)

**NOTE: UST(s) that have been excessively cut on/into may not be able to be fully inerted. In this case the UST(s) must be thoroughly cleaned and open such that a flammable atmosphere cannot develop during transportation.*

9. PIPING - All piping must be uncovered but remain in place until the Hazardous Materials Specialist approves the removal of the piping.

10. CONTAMINATED SOILS HANDLING - All excavated soils contaminated with hazardous materials must be stockpiled on-site in a secure, contained, and covered fashion to prevent public assess and release of the contaminant to the environment.

Contaminated soils shall be segregated from clean soils and sampled within 24 hours of excavation by a representative of a State Health Services certified hazardous waste laboratory or a State licensed geologist/hydrologist/qualified engineer (or other licensed professional as approved by the CUPA), who will transport the sample under chain of custody to a certified lab following EPA SW846 protocol.

11. SAMPLING OF SOILS - Verification soil samples shall be collected by approved samplers/lab for all tank removals as follows:

a. **Sites with no apparent contamination and no holes in tanks or pipes** - a minimum of **two samples per tank** from the bottom of the excavation underneath where the fill and turbine were located or would have been located, **two feet into native soil.** At the discretion of the Hazardous Materials Specialist, additional samples may be required. Also, a minimum of one sample per every **20 feet** of piping and **one sample below each pipe joint and each dispenser** is required.
b. **Sites with no apparent contamination but with holes in tanks/pipes** - In addition to sampling as described in (a) above, additional samples taken directly beneath the observed holes.
c. **Sites with stained soil/odors present** - Same as (a) and (b) above with additional sampling directly in the stained soil areas.
d. **Stockpile soil samples** - shall be pulled from the middle interior of the pile. Stockpile soil samples from waste oil tank removals must be run for CCR Title 22 Metals; hazardous waste generator laws will apply.

12. SITE ASSESSMENT/MITIGATION - Tank sites that have environmental contamination will be referred to the Site Mitigation Unit (SMU)/Leaking Underground Fuel Tank (LUFT) program and/or the State Water Board.

13. TANK RECYCLING/DISPOSAL - Cleaned tanks shall be removed from the site immediately to a facility zoned for this activity and is in compliance with local fire prevention codes for recycling/disposal. Dispensers and piping must also be removed if tank system is removed.

14. CLOSURE REPORT - A report containing, at a minimum, the following information shall be submitted by the responsible party within 30 days of removal:

a. Site background
b. Removal activities
c. UST certificate of destruction or other approved disposition
d. Manifest copies
e. Tank Closure Certification copy
f. Sampling results including the raw data and chain-of-custody documentation from all labs used
g. Drawings, sized 11 x 17 inches or larger, folded to 8.5" x 11", and drawn to a suitable scale for details of the former tank system. The scale must be one of the following: 1"=10', 1"=20', 1"=30', 1"=40', 1"=50', 1"=60', 1"=100', 1"=200'.
    i. Limits of the excavation
    ii. Depths and location of all samples
    iii. Property lines and adjacent property usage
    iv. Any structures at facility
    v. North arrow, scale, and key of symbols used

Signature and Acknowledgement

A signed copy of these requirements must be turned in with the UST Removal Application Form 307.

By signing this document you are declaring that you have read and understood the UST removal requirements. You have contacted the appropriate CUPA personnel to discuss any requirements that were unclear or to discuss alternate methods to meet the intent of the requirements because of site specific conditions.

Signature: _____

Print Name: _____

Title: _____

Date: _____