

**ADDENDUM # 3**

**CITY OF TORRANCE  
3031 Torrance Blvd.  
Torrance, CA 90503**

**RFP NO. B2020-26**

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**RFP for Design Build Fuel System at Torrance Municipal Airport**

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ADDENDUM # 3 - Issued 10/26/20

THE FOLLOWING CHANGES ARE HEREBY INCORPORATED INTO AND MADE A MANDATORY PART OF SUBJECT RFP:

CLARIFY: The Proposal Due Date remains on **Monday, November 16, 2020 by 3:00 PM** in the Office of the City Clerk, 3031 Torrance Blvd., Torrance, CA 90503. **NO FAXED PROPOSALS EXCEPTED**

**Please view the attached Underground Storage Tank Removal Procedures.**

Please return this addendum with your bid proposal. Failure to acknowledge addenda and submit it with your proposal may render the proposal non-responsive and cause it to be rejected. I hereby acknowledge receipt of this addendum.

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Address

\_\_\_\_\_  
City      State      Zip Code

# UNDERGROUND STORAGE TANK REMOVAL PROCEDURES

THE FOLLOWING ARE VARIOUS STEPS USED IN THE LOCATION, EXCAVATION AND REMOVAL, CLEANING AND HANDLING OF UNDERGROUND TANKS, WHICH INCLUDES THE CONTENTS, RESIDUE AND TANK DISPOSITION.

## GENERAL

1. Obtain all permits as required. (Local, E.P.A., A.Q.M.D.) All personnel working on site must have current Health and Safety Training. A work plan and Health and Safety plan shall be present on site.
2. No onsite work shall be initiated until all necessary permits have been obtained and in evidence at the site. The tank owner or his representative must obtain the generators U.S. EPA identification number. Any hazardous waste removed from the site must be transported under manifest by a registered transporter using certified containers.
3. Provide a site plan identifying the size and location of the tank(s), structures and property lines.
4. Prior to large equipment moving to the tank location, observe ingress and egress including any overhead wiring and other possible obstructions relative to safety of persons and equipment.
5. All tanks shall be checked for flammability. Use a combustible gas indicator and log the time and tank atmosphere on job paperwork. If contents are unknown, a sample should be drawn and subjected to analysis for constituency and flammable limits. Only trained personnel will perform this operation.
6. All electricity, supply lines and like items known to be associated with the tank(s) shall be "locked out" or disconnected. Barriers, colored tape and signs shall be installed and any source of ignition shall be at least 25' away from the excavation.
7. Remove all possible remaining liquid using an appropriate vacuum truck and hose(s). Observe grounding and bonding procedures. The liquid, if hazardous must be transported to an appropriate reclaiming, recycling or TSD facility. Manifesting procedures must be followed.

## REMOVING TANKS CERTIFIED CLEAN

1. Underground storage tanks (UST's) that are going to be cleaned and certified on site shall, **prior to any ground breaking**, be degassed following rule 1149 of the South Coast Air Quality Management District which prohibits "degassing" of tank(s) unless the emissions of petroleum vapors is controlled by a refrigerated condenser or another device that is at least 90% efficient. Electrical Bonding is to be observed.
2. Upon completion of the degassing, the UST(s) shall be inerted with CO<sub>2</sub>. Make necessary provisions to have proper tools on hand to remove the fill line "drop tube" and or sleeve. Place a minimum of fifteen (15) pounds of dry ice per 1000 gallons of capacity into tank(s). Replace the tank fill pipe cap to seal the tank. The vent lines are to be kept open. Inerting is not required for tanks that contained motor oil or waste oil.
3. Begin the excavation to expose the top of tank(s). Identify all piping associated with and relative to the tank. All vent piping shall be left intact until the LEL reading is 0% and the tank is ready to be removed. Continuous supervision must be maintained during all operations.

*NOTE: No CUTTING TORCH, OPEN FLAME, OR SPARK PRODUCING EQUIPMENT SHALL BE USED ON THE TANKS OR PIPING.*

4. Begin high pressure washing the tank interior using a suitable detergent if necessary. Loose scale, sludge and rinse water are removed and deposited in the vacuum truck. When the flammability reading is 0%, the washing may cease.
5. Should there be no installed manhole in the tank, a pneumatic cold cutting tool will cut manholes at the appropriate locations. Use only approved nonsparking tools. No one shall enter the interior of any tank.
6. All interior rinse water and sludge shall be manifested and transported to a fully approved and permitted TSD facility.
7. A certified Marine Chemist or similarly qualified person shall inspect the tank and issue a "certificate stating that the tank is "safe for hot work". At this point the tank can be considered as non-hazardous.
8. The chemist or other qualified person shall apply an identification number and the date that corresponds to the "certification" with a can of spray paint to the tank exterior. The certification must be kept with the tank. Log this certification in the job paperwork.
9. Remove the cleansed tanks from the excavation in the presence of the Torrance Fire Department inspector. Remove excess soil from the tanks exterior. Load and secure the tanks on appropriate transporting equipment and remove from the premises. The cleansed tanks can be transported with their respective certificates.

#### **REMOVING TANKS AS HAZARDOUS**

If the UST is to be removed and transported as hazardous waste, the tanks shall be degassed following rule 1149 of the South Coast Air Quality Management District. Remove fill line "drop tube" and inert tank(s) with 15 lbs. of dry ice per 1000 gallons of tank capacity. Degassing and inerting may not be required for tanks that contained motor oil. Begin the excavation in cooperation with the local agency and expose the tank.

Remove product vent and electrical lines, intank pumps, etc., making observations of any possible past leaks. Plug all tank openings with a pliable material, i.e., paper, cloth, or rags. When the inerted UST reads less than 5% oxygen, the tank may be removed from the excavation and place on an appropriate transport vehicle. Complete a uniform hazardous waste manifest and transport the tank(s) to recognized TSD facility.

#### **SOIL SAMPLING AND REPORTS**

All all soil samples are to be obtained using EPA Method 5035.

1. Soil samples must be taken 2' to 4' below the tank invert into native soil.
  - Two samples at the ends for all tanks 12000 gallons or less.
  - Three samples at the ends and center for tanks greater than 12000 gallons.

Soil samples must be taken below product lines at 20 intervals, at joint fittings and dispensers. Samples shall be iced and transported to a State certified laboratory and tested for hazardous constituents. Contact the Hazardous Materials Division at 310 618 2973 to determine the sampling and testing protocols to be used.

2. If excavated soil is to be used as backfill, soil samples shall be taken randomly from the stockpile. One sample for each ten cubic yards or as required by the Fire Department.
3. Should additional soil, dirt or hazardous debris require removal, it shall be done in a safe manner, manifested and transported in certified containers and receipted at the appropriate facility.
4. Should the excavation be left open, security of the site shall be maintained.
5. If the site requires backfilling, compaction and or grading, the compaction shall be done to the satisfaction of the Building and Safety Department.
6. A Tank Removal/Closure Report shall be submitted to Torrance Fire Department Hazardous Materials Division within 30 days after the tanks removal. Technical submittals must contain a wet ink signature and seal by a California licensed registered geologist, certified engineering geologist, registered civil engineer or registered geotechnical engineer. The report shall contain the following information:
  - Site map/ Vicinity map
  - Tank Information
  - Tank Preparation and Removal Information
  - Soil Sample Data
  - Chain of Custody
  - Laboratory Analysis of Samples
  - Geology
  - Hydrogeology
  - Disposal Documents
  - Conclusions and Recommendations (including a Request for Closure if warranted)
7. If any contamination is discovered, an Unauthorized Release/ Leak Contaminated Site form shall be submitted to TFD within 24 hours and a written report shall follow within five working days. The report shall contain the following information:
  - Preliminary site assessment
  - Soil and water investigation
  - Corrective action plan
  - Verification monitoring

Contact the Hazardous Materials Division at 310 618 2973 for additional information.