

**MCKINNEY FIRE DEPARTMENT
FIRE MARSHAL'S OFFICE**

UNDERGROUND STORAGE TANK REMOVAL

Underground storage tank removal operations shall conform to the 2015 International Fire Code, as adopted and amended by City of McKinney, NFPA 30, Flammable and Combustible Liquids Code, and API Standard 1604.

REMOVAL REQUIREMENTS

1. The area of tank removal shall be barricaded a minimum of 50 ft. from the edge of the tank excavation, as recommended by API.
2. The On-Site Supervisor shall hold a valid minimum Type B License issued by the Texas Commission on Environmental Quality (TCEQ) for UST Removals.
3. All flammable and/or combustible liquids shall be removed from the tanks and piping prior to removal from the ground.
4. All tanks piping, vents, fixtures, lines and other appurtenances shall be removed. Piping will not be permitted to be abandoned in place.
5. Tank openings shall be capped or plugged with the exception of a 1/8 inch diameter pressure vent hole.
6. If the tanks are to be triple rinsed/washed, all rinse liquid shall be disposed of in an approved manner.
7. The tanks shall be purged to remove all flammable vapors prior to removal. The following are approved methods for vapor removal:
 - a. Use of a diffused air blower or eductor type air blower.
 - b. Vacuum truck operation.
8. The tanks shall be made inert to remove all residual oxygen. The Fire Department permits the following vapor removal methods.
 - a. Prior to tank removal, all tank openings shall be secured and the tanks shall be purged with dry ice at a ratio of 2 lbs. for every 100 gallons of tank capacity, or as recommended by API 1604.
 - b. Carbon Dioxide (CO₂) or Nitrogen (N₂) Method: One cubic foot CO₂ or N₂ per gallon of tank capacity. Triple grounding shall be used with compressed cylinders. The cylinder hose shall fit into a non-conductive plug, and will not be allowed to dangle into the UST.
9. All flammable vapors during the inerting or purging process shall be vented a minimum of 12 ft. from grade.
10. Prior to tank removal from the ground, both Oxygen and LEL measurements shall be taken using a hydrocarbon meter and shall be verified and approved by the field inspector. Tank removal will not be permitted until the Oxygen level is less than 5% and the atmosphere is less than 10% of the LEL.
11. Tanks removed shall not be cut up on site prior to transport for disposal. All UST's removed from the ground must be transported from the City on the same day that they are removed.
12. All tanks shall be marked and labeled, as recommended by API 1604 & 334.55(b)(4) - (D) prior to transit.
13. The tanks shall be disposed of in accordance with federal and state regulations. Copies of the destination shipping papers and identification of each tank removed shall be provided to the field inspector at the time of the removal.
14. The contractor shall be responsible for the cleanup of any spills or soil contamination and abatement of the same per state and federal requirements. Copies of all documents for the final soil testing results, and the tank destination shall be provided to the McKinney Fire Marshal's Office when completed.
15. Upon completion of the UST removal, a report shall be provided to the Fire Department within 30 days detailing the following:
 - a. Description of tank, piping and/or fittings removed.
 - b. Description of the excavation.
 - c. Description of sampling methods.
 - d. Description of any remedial efforts necessary.

UNDERGROUND STORAGE TANK REMOVAL ABANDON IN PLACE

- e. Full lab report of the soil samples and listing of any corrective/remedial measures necessary based on the lab report.

GENERAL SITE REQUIREMENTS

16. This office does **not** review or approve site specific health and safety plans for adequacy, accuracy, or completeness. Compliance with all applicable worker health and safety regulations, including implementation of the site safety plan, is the responsibility of the owner and contractor.
17. Provide two(2) 20-BC portable fire extinguishers within 50 feet of the tank excavation site.
18. "NO SMOKING" signs shall be posted and readily visible.
19. The person, firm or corporation to whom the permit is issued is responsible for the removal and disposal of all product, tank residue, and tank in strict accordance with all applicable statutes, laws and regulations. You are responsible for any and all violations. Additional requirements may be added based on conditions which may arise at the removal site.

To expedite the permitting and inspection processes, please refer to the information listed below.

PERMITTING REQUIREMENTS

20. Provide a written description of the tank removal operations.
21. Site plan drawings of the existing site location and conditions, to include; including.
 - a. All buildings and structures.
 - b. Fire lanes and fire hydrants.
 - c. Location of tanks with regards to the above.
22. Drawings shall be submitted for review and approval, PRIOR to removal.
23. Drawings shall be generated by the owner and/or licensed TECQ UST company specific to the removal operation. Drawings shall show plan view and other pertinent information.
24. No underground storage tank(s) or associated piping may be removed or otherwise manipulated on the site until a UST Removal Permit has been issued. Any work performed prior to the issuance of this permit may result in a citation being issued for violation of Section 113.3 of the 2015 International Fire Code.

GENERAL SUBMITTAL REQUIREMENTS

25. Each submittal shall have a completed McKinney Fire Department Plan Review Permit Application.
26. Plans approved by the Fire Marshal's Office give authorization for removal. Final approvals are subject to field verification. Any approval issued by the Fire Marshal's Office does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances.
27. All fire department inspection forms and permits shall be kept in a permit packet on the job site until final inspection.

Any tank owner, who intends to permanently remove their underground storage tank, must give thirty (30) days prior notice to the Texas Commission on Environmental Quality (TCEQ). This must include the proposed procedures and a schedule for removing the tank(s). Further guidance is contained in Texas Administrative Code, Title 30, Chapter 334.54 and Chapter 334.55; and in API 1604.

This guide does not replace, nor supersede any codes and/or ordinances adopted by the City of McKinney, or determinations and positions of the Fire Chief or Fire Marshal.