



Above Ground Fuel Tanks (Not for Dispensing)

[revised 05/1/2019]

This document is intended to provide guidance regarding compliance with Flammable and Combustible Liquids Tank Permit requirements for fuel tanks for fuel-fired equipment, such as emergency generators. This document does not address tanks installed for the purpose of dispensing fuel or underground tanks. Contact DFW Environmental for registration with State requirements 972-973-5567.

1. Flammable and Combustible Liquids Construction Permit (DCC) is required to install, alter, remove, or abandon a fixed tank installation containing flammable or combustible liquids.
2. **Outside** above-ground storage tank (AST) shall be either a UL 2085 (listed protected secondary containment tank) or a UL 142 (non-protected listed secondary containment tank) tank, or other AST complying with all requirements of the current adopted Fire Code.
 - a. Normal vent shall extend to 12 ft. above adjacent grade.
 - b. All vents shall extend to discharge directly to atmosphere
 - c. The fill connection inlet shall be provided with a minimum 5 gallon spill container with drain.
 - d. All tanks require vehicular impact protection per IFC where subject to such potential damage.
 - e. Minimum setback requirements from buildings and property lines must comply with NFPA 30, dependent on size and type of tank.
3. **Inside** AST shall comply with Chapter 34. Maximum capacity is 660 gallons for UL 142 double walled tank containing diesel (Class II combustible liquid). If tank exceeds that capacity, construction requirements change to H-3 occupancy.
 - a. All fill and vent lines, including all emergency relief vents, shall terminate outside of the building, located at least 5 ft. away from building openings, the property line, and ignition sources, including engine exhaust. Normal vent shall extend to at least 12 ft. above adjacent grade.
 - b. The fill connection inlet shall be provided with a minimum 5 gallon spill container with drain and appropriate signage (NFPA 704).
4. **All** tanks require overfill prevention, including 90% high level alarm and 95% automatic shut-off.

Exception: Outside UL 142 tanks \leq 1,000 gallons shall only require the 90% alarm.
5. **All** tanks require signage, as per adopted Fire Code.
 - a. Provide sign at the fill point for the tank, documenting the filling procedure, which shall require the fueling operator to determine the volume required for 90% capacity prior to filling, and tank calibration chart.
 - b. Provide "No Smoking & No Open Flames" type signage, tank contents label, and NFPA 704 diamond hazard signs, for all installations. NFPA 704 signs shall have hazards labeled as per the Material Safety Data Sheet associated with that commodity and having minimum letter height of 6 inches for outside installations and 4 inches for inside installations. NFPA 704 signs shall be located on the tank, at entrances to facilities where the tank is located, and at locations specified by the fire code official.





DFW Airport Fire Department

3600 South Airfield Dr DFW Airport, Texas 75261

Telephone: 972-973-3576



Above Ground Fuel Tanks (Not for Dispensing)

6. **All** tanks require field inspection prior to filling the tank.
 - a. Field inspector shall witness soap test (air test at 110% but no less than 5 psi for a minimum of 10 minutes) of all piping (fuel and vents), unless the tank is located outside and is integral to the generator, i.e. belly tank.
 - b. Field inspector may require tightness test of tank, adopted Fire Code and NFPA 90 requirements (air test between 9 and 5 psi for not less than 1 hour).
 - c. Preparations should be made to have a fuel truck present upon completion of all tightness testing of piping/tank to fill the tank for verification of the overfill protection to be witnessed by the field inspector.

Contact DFW Fire Marshal's Office for additional information concerning requirements associated with these types of installations.