



## Kerrville Fire Marshal

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## Section 5

### Temporary Storage and Dispensing of Flammable and Combustible Liquids

These guidelines are to be followed for all temporary storage and dispensing of Class I and II liquids for private use at construction sites, earth-moving projects, and gravel pits or borrow pits within the City of Kerrville.

All temporary aboveground storage tank requirements for the purposes of these guidelines and any other guidelines or requirements of the Fire Marshal shall conform to the *International Fire Code* as adopted and amended by the City of Kerrville.

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

#### Aboveground Storage Tank Requirements

1. The storage of Class I and II liquids in above-ground tanks is prohibited within all residential districts and the ~~Downtown (DT) Zoning District~~ unless otherwise approved by the Fire Marshal.
2. Storage areas shall be kept free from weeds and extraneous combustible material.
3. Open flames and smoking are prohibited in flammable or combustible liquid storage areas.
4. Tanks and containers for the storage of liquids above ground shall be conspicuously marked with the name of the product, which they contain, and the words: FLAMMABLE—KEEP FIRE AND FLAME AWAY. Tanks shall bear the additional marking: KEEP 50 FEET FROM BUILDINGS.
5. Metal containers used for storage of Class I or II liquids shall be in accordance with DOT's requirements or shall be of an approved design.
6. Discharge devices shall be of a type that does not develop an internal pressure on the container. Pumping devices or approved self-closing faucets used for dispensing liquids shall not leak and shall be well maintained. Individual containers shall not be interconnected and shall be kept closed when not in use.
7. The capacity of temporary aboveground tanks containing Class I or II liquids shall not exceed 500 gallons. Tanks shall be of the single-compartment design.
8. Fill openings shall be equipped with a locking closure device. Fill openings shall be separate from vent openings.
9. Tanks shall be provided with a method of normal and emergency venting. Emergency vents shall be arranged to discharge in a manner, which prevents localized overheating or flame impingement on any part of the tank in the event that vapors from such vents are ignited.
10. Tanks containing Class I or II liquids shall be kept outside and at least 50 feet (15 240 mm) from buildings and combustible storage. Additional distance shall be provided when necessary to ensure that vehicles, equipment and containers being filled directly from such tanks will not be less than 50 feet (15 240 mm) from structures, haystacks or other combustible storage.
11. Tanks shall be provided with top openings only or shall be elevated for gravity discharge.
12. Tanks with top openings shall be mounted as follows:
  - a. On well-constructed metal legs connected to shoes or runners designed so that the tank is stabilized and the entire tank and its supports can be moved as a unit. or
  - b. For stationary tanks, on a stable base of timbers or blocks approximately 6 inches (152 mm) in height which prevents the tank from contacting the ground.

- c. Tanks with top openings only shall be equipped with a tightly and permanently attached, approved pumping device having an approved hose of sufficient length for filling vehicles, equipment or containers to be served from the tank. Either the pump or the hose shall be equipped with a padlock to its hanger to prevent tampering. An effective anti-siphoning device shall be included in the pump discharge unless a self-closing nozzle is provided. Siphons or internal pressure discharge devices shall not be used.
- 13. Tanks with a connection in the bottom or the end for gravity-dispensing liquids shall be mounted and equipped as follows:
  - a. Supports to elevate the tank for gravity discharge shall be designed to carry all required loads and provide stability.
  - b. Bottom or end openings for gravity discharge shall be equipped with a valve located adjacent to the tank shell, which will close automatically in the event of fire through the operation of an effective heat-activated releasing device. Where this valve cannot be operated manually, it shall be supplemented by a second, manually operated valve.
  - c. The gravity discharge outlet shall be provided with an approved hose equipped with a self-closing valve at the discharge end of a type that can be padlocked to its hanger.
- 14. The area surrounding a tank or group of tanks shall be provided with drainage control or shall be diked to prevent accidental discharge of liquid from endangering adjacent tanks, adjoining property or reaching waterways.
  - a. Drainage control and diking is not required for listed secondary containment tanks.

#### **Dispensing from tank vehicles**

- 15. Where approved, liquids used as fuels are allowed to be transferred from tank vehicles into the tanks of motor vehicles or special equipment, provided:
  - a. The tank vehicle's specific function is that of supplying fuel to motor vehicle fuel tanks.
  - b. The dispensing hose does not exceed 100 feet (30 480 mm) in length.
  - c. The dispensing nozzle is an approved type.
  - d. The dispensing hose is properly placed on an approved reel or in a compartment provided before the tank vehicle is moved.
  - e. Signs prohibiting smoking or open flames within 25 feet (7620 mm) of the vehicle or the point of refueling are prominently posted on the tank vehicle.
  - f. Electrical devices and wiring in areas where fuel dispensing is conducted are in accordance with the National Electrical Code.
  - g. Tank vehicle-dispensing equipment is operated only by designated personnel who are trained to handle and dispense motor fuels.
  - h. Provisions are made for controlling and mitigating unauthorized discharges.
- 16. Dispensing from tank vehicles shall be conducted at least 50 feet (15,240 mm) from structures or combustible storage.

#### **Submittal Requirements**

- 17. Each submittal shall have a completed Kerrville Fire Marshal Permit Application

#### **Additional Information**

- 18. Plans approved by the City of Kerrville, Fire Marshal give authorization for construction. Final approvals are subject to field verification. Any approval issued by the Fire Marshal does not release the contractor or property owner from the responsibility of full compliance with all applicable codes and ordinances relating to the construction project.
- 19. No above ground storage tank(s) or associated equipment may be installed, located, or otherwise manipulated on the site until a complete plan submittal is reviewed and accepted, and a AST Permit is issued for the location
- 20. All installations must concur with the approved plans. Any deviation from the approved plans requires a submittal to the Fire Marshal's Office.
- 21. All fire marshal inspection forms and permits shall be kept in a permit packet on the job site until final inspection.

### **Inspection Requirements**

22. Site visit shall be conducted to ensure the following items:
  - a. Storage areas free from weeds and extraneous combustible material.
  - b. Open flames and smoking are prohibited in flammable or combustible liquid storage areas.
  - c. Tanks and containers conspicuously marked with the name of the product which they contain and the words:
    - i. FLAMMABLE—KEEP FIRE AND FLAME AWAY.
    - ii. KEEP 50 FEET FROM BUILDINGS.
  - d. Fill openings shall be equipped with a locking closure device.
  - e. Fill openings separate from vent openings.
  - f. Tanks kept outside and at least 50 feet from buildings and combustible storage.
  - g. Drainage control or diking to prevent accidental discharge of liquid from endangering adjacent tanks, adjoining property or reaching waterways.
  - h. Drainage control and diking is not required for listed secondary containment tanks.