



## **ABOVEGROUND/UNDERGROUND STORAGE AND DISPENSING FUEL/GAS SYSTEMS SUBMITTAL REQUIREMENTS**

**These guidelines are to be followed when a business, facility or organization proposes to install or modify an aboveground/underground storage and dispensing systems within the Lake Cities Fire Department Jurisdiction. This document shall assist in the preparation of a submittal for permit. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.**

**All aboveground/ underground storage and dispensing systems for the purposes of this guideline and the requirements of the Fire Department shall conform to the current adopted International Fire Code, and amendments by Hickory Creek, Shady Shores, Lake Dallas, and Corinth.**

**This guide does not replace, nor supersede any codes and/or ordinances adopted by Hickory Creek, Shady Shores, Lake Dallas, Corinth.**

**INCOMPLETE PERMIT APPLICATIONS WILL NOT BE REVIEWED.**

**Two (2) set of plans and specifications will be submitted for review with the following information (This includes temporary tanks):**

1. The name and street address of the facility containing the proposed system.
2. The name, mailing address, and telephone number of the owner or owner's representative.
3. The name, mailing address, and contractor installing the system.
4. A description of how each tank is used (vehicle fueling, industrial process, equipment fuel tank, etc.). Include if it is for permanent use or temporary use. If used at a service station, a description of the service station operations (retail sales or private fleet fueling; if an attendant is present during the hours of operation or not; if fueling is by an attendant or self-service). Please describe how you will control pump access (key or card lock) for unattended self-service stations.
5. The contents of each tank (gasoline, diesel, propane, etc.), nominal storage capacity, and design standard for each tank (UL 142, UL 2080, UL 2085, etc.). Please provide Material Safety Data Sheets (MSDS) for flammable or combustible liquids/ gas not listed in of the National Fire Protection Association (NFPA) 30A Annex B.
6. The manufacturer and model number of all components of the fuel/ gas storage and dispensing system. Please include the manufacturer's technical information sheets for all components of the fuel storage and dispensing system.
7. Scaled site plan 1/8" = 1' (1/16" = 1' Acceptable for Large Buildings) showing locations of new and existing tanks, dispensers, fill connections, piping route between tanks and dispensers, piping route between tanks and fill connections, buildings on the same property, fencing, property lines (including near and opposite sides of a public way), nearest fire hydrant, emergency shutoff switches, vehicle impact protection, fire extinguishers, location of warning signs, and diking or remote impoundments.
8. Drawing(s) of piping layout (schematic or isometric view) with valve and fitting details.
9. Tank and piping support details.
10. Plan(s) for control of spills from aboveground tanks per NFPA 30 and NFPA 30A (diking, remote impounding, or secondary containment tanks).
11. State the required normal and emergency venting for each tank (if not shown in the manufacturer's literature).
12. Electrical plan(s) showing enough information to verify compliance with applicable electrical requirements in NFPA 30 and NFPA 30A.

13. Details and locations of on-site fire protection equipment including (fire extinguisher, fire hydrants, etc.).

### **Inspection and Testing**

14. General fire department inspections and testing required for all projects regardless of type include, but may not be limited to the following:

- a. Inspection and pressure testing of the tank before installation including name plate.
- b. Inspection and testing of piping.
- c. Final acceptance testing and inspection of the installation before facility is opened for use.
- d. All testing procedures are conducted by the installing contractor and are witnessed by the fire code official.

### **Tank Installations for Motor Vehicle Fuel Dispensing Facilities (Public and Fleet)**

15. Required warning signage
16. Required emergency procedures signage
17. NFPA 704 Labels or Placards
18. Operating instruction signage posted on dispensers
19. Emergency disconnect switch must be operationally tested
20. Confirm fire extinguisher(s) location and type, minimum 2-A: 20-B:C
21. Means of communication (e.g. telephone)
22. Control of brush and debris within 10 feet of facility
23. Vehicle impact protection

### **Tank Installations Utilized for Anything OTHER than Motor Vehicle Fueling Operations**

24. This will depend on the size, type and location of installation, but may include the following general requirements:
- a. Required warning signage and labeling
  - b. NFPA 704 Labels or Placards
  - c. Spill control and secondary containment

- d. Vehicle impact protection
- e. Fire extinguisher(s) location and type
- f. Required inspections and testing of fire protection systems including underground fire lines, specialized extinguishing/ suppression systems

### **Above-Ground Permanent/ Temporary Tanks**

25. Minimum separation requirements for above-ground tanks are addressed in the current adopted International Fire Code.

26. Above-ground tanks used for outside, above-grade storage of Class I, Class II and Class IIIA flammable liquids shall be listed and labeled as protected above-ground tanks in accordance with UL 2085. Fuel dispensers may be directly on such tanks if used for fueling fleet vehicles.

27. UL 142 listed tanks for Class II and Class IIIA combustible liquids **MUST** first be approved by the Lake Cities Fire Department, and shall be for **Temporary Outside Use Only**, provided the separation distances comply with the current adopted International Fire Code, and for a limited set of time set by the Lake Cities Fire Department.

### **Considerations:**

28. Omission of required information will delay the review process. Please ensure submitted plans fully address all applicable items.

29. Plan(s) must provide significant information in order to verify compliance with the latest adopted versions of the IFC, NFPA 30, and NFPA 30A.

30. Permit is required by the Lake Cities Fire Department for all Permanent and Temporary use tanks.

31. Failure to obtain a permit, comply with safety criteria, or required conditions may result in stop work order, permit revoked and or a citation issued for each violation.

### **NOTE:**

32. Re-inspection fee – If it is does not meet the requirements or fails to operate, there may be a re-inspection fee.

*The issuance of a Fire Department Construction Permit from the Lake Cities Fire Department does not relieve the applicant of any permits required by the Cities of Hickory Creek, Shady Shores, Lake Dallas, or Corinth Building Department.*

**Submit Plans To**

**Lake Cities Fire Department**

**3501 FM 2181 Suite B Corinth, TX 76210  
Phone: 940-279-4590 Fax: 940-497-3455**