



## S.C. DEPARTMENT OF LABOR, LICENSING, AND REGULATION

### Division of Fire and Life Safety

Office of State Fire Marshal

141 Monticello Trail Columbia, SC 29203

Phone 803 896-9800

Fax 803 896-9806

### Propane Bulk Plants and Air Mixing Systems

Plans and specifications submitted for review by the Office of State Fire Marshal must contain the following applicable information:

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. The name and mailing address of the local fire department responding to calls for this facility.
5. A description of each tank used, including size and container data plate markings per NFPA 58 5.2.8.3(C).
6. The manufacturer and model number of all components of the propane storage, filling and dispensing system. Please include the manufacturer's technical information sheets for all components of the propane fuel storage, filling and dispensing system.
7. Details of container supports including construction type (NFPA 58 6.6.3)
8. Scaled site plan showing locations of new and existing tanks, dispensers, fill connections, piping route between tanks and dispensers, piping route between tanks and fill connections, pumps, compressors, vaporizers, buildings on the same property, fencing and fence height, property lines (including near and opposite sides of a public way), emergency shutoff valves and switches, vehicle impact protection, fire extinguishers, location of warning signs, location of fire hydrants and vehicle access points.
9. Drawing(s) of piping layout (i.e. schematic) with valve and fitting details, including material type, schedule, size, design/working pressures, joining method installation method (aboveground/underground) corrosion protection.
10. Tank and piping support details.
11. Location of any pumps, compressors, vaporizers, tank heaters, vaporizing burners, or gas-air mixers, including make, model, manufacturer's numbers. Include manufacturers cut sheets for all components used in the system.
12. Electrical plan showing enough information to verify compliance with applicable electrical requirements in NFPA 58 6.22.1.1 and Table 6.22.2.2.
13. Details of vehicle impact protection. We accept the guard post design listed in Section 312.2 of the 2006 International Fire Code as meeting NFPA 58 requirements for "adequate collision barriers." Submission of plans and calculations proving other designs meet the design criteria of IFC 312.3 is required if you use another design.
14. Details of Hazard Identification Signs per IFC 2703.5 Hazard Identification Signs in accordance with NFPA 704 shall be posted at each bulk plant and propane air mixing plant.
15. Completed fire safety analysis as required by NFPA 58 6.25.3 (see enclosed information requirements )
16. Any alternate provisions per NFPA 58 6.26
17. Compliance with NFPA 58 sections 6.7, 6.8, 6.9, 6.14, 6.16, 6.17, 6.18, 6.21, Ch.14.

#### Notes:

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