

STATE OF KANSAS



OFFICE OF THE STATE FIRE MARSHAL
800 S.W. JACKSON, SUITE 104
TOPEKA, KS 66612

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GOVERNOR JEFF COLYER, M.D.
DOUG JORGENSEN, STATE FIRE MARSHAL

LP-GAS FACILITY INSTALLATION APPLICATION

Application approval is required PRIOR to the installation of a new LPG facility.

This application applies only to (1) Bulk storage and transfer of greater than 2000 gallon water capacity, (2) Portable cylinder filling and storage and (3) Vehicle fuel dispensing station.

Submit To: Office of the State Fire Marshal
Prevention Division
800 SW Jackson, Suite 104
Topeka, Kansas 66612-1216
Fax (785) 296-0151

All applicants must reply to Sections I-X. If certain section do not apply to you please illustrate with N/A in that section (Not Applicable) Please print clearly or type:

I. GENERAL INFORMATION

Facility Name: _____
Facility Physical Address: _____
Facility Mailing Address: _____
Contact Person: _____
Phone: _____ Fax: _____
Email: _____
Number of tank (s) already on location: _____
Application for (Select One)
 Bulk Site Bottle Fill Vehicle Filling RV Camper Filling Private use
 Retail Other:

II. FACILITY OWNER INFORMATION

Owner Name: _____
Owner Address: _____
Phone: _____ Fax: _____
Email: _____

III. INSTALLER /CONTRACTOR INFORMATION

Installer Name: _____
Installer Address: _____
Phone: _____ Fax: _____
Email: _____

IV. GENERAL FACILITY INFORMATION

All LPG facilities and equipment shall comply with NFPA 58 and the requirements of this application.
Proposed Installation Date:
Total quantity of LP-Gas at facility in gallons:
Describe facility and container(s) security and protection:

Please refer to required code requirements and check them off as you understand them:

1. Container shall be painted and clearly marked: FLAMMABLE and either "LP-GAS", "LPG", "PROPANE" or "BUTANE" in at least six inch letters. NO SMOKING sign shall be posted near container area. **A weatherproof Sign with lettering at least two inches in size stating: (1) Owner's Name (2) Address of the Facility (3) 24/7 Emergency Number. Posted near main entrance of facility.**

Met Not Met

2. All persons handling LPG shall be trained in proper handling, operating procedures, this shall be documented by the employer. KSFM approved training certification document shall be kept on file by employer as per NFPA 58.

Met Not Met

3. Are hydrogen or oxygen containers also stored at this facility and comply with NFPA 58:

Yes No

4. Steel supports are protected with a least a two hour fire resistance rating as per NFPA 58

Met Not Met NA

5. All Gauges comply with NFPA 58

Yes No

6. Rain caps comply with NFPA 58

Yes No

7. All Valves comply with NFPA 58.

Yes No

8. Is your container designed, fabricated, tested and marked (or stamped) in accordance with US Dept of Transportation, ASME or the API-ASME? NFPA 58 5.2.1.1

Yes No

9. Loose or piles of combustibles, weeds, long dry grass shall not be permitted within 10 feet of any container.

Met Not Met

10. All piping, hoses, connectors and supports comply with NFPA 58.

Yes No

11. Emergency Shutoff Valve complies with NFPA 58 with remote location clearly Identified.

Yes No

12. Pumps and compressors shall have operating controls and emergency disconnect switch located per NFPA 58.

Yes No

13. Pump House, container filling rooms, other similar locations shall be free of open flames or other sources of ignition including direct and indirect fired vaporizers.

Yes No

14. Provide at least one eighteen pound dry chemical fire extinguisher B/C rating at each bulk plant, dispensing station, distributing point, and storage location of containers awaiting resale or use as per NFPA 58 .

Met Not Met

15. Does Electrical wiring comply with NFPA 70?

Yes No

16. Is lighting providing for facility operations after daylight hours as per NFPA 58?

Yes No

17. Containers shall be located at least 20 feet from flammable or combustible liquid AST.

Met Not Met

18. Containers in contact with saddles or foundations or masonry shall be coated or protected to minimize corrosion.
Met Not Met

19. All security measures comply with NFPA 58
Yes No

V. SEPARATION DISTANCES BULK STORAGE

Containers installed outside of buildings, whether of the portable type replaced on a cylinder exchange basis or permanently installed and refilled at the installation, shall be located with respect to the adjacent containers, important building, group of buildings, or line of adjoining property that can be built upon.

Separation Distances Between Containers, Important Buildings, and Other Properties

| Water Capacity per Container (gallons) | Aboveground Containers, Important Bldgs, Other Properties (ft) | Between Containers (ft) |
|--|--|--|
| Less than 125 | 0 | 0 |
| 125-250 | 10 | 0 |
| 251-500 | 10 | 3 |
| 501-2000 | 25 | 3 |
| 2001-30,000 | 50 | 5 |
| 30,001-70,000 | 75 | ¼ of Sum of Diameters of adjacent containers |
| 70,001-90,000 | 100 | |
| 90,001-120,000 | 125 | |
| 120,001-200,000 | 200 | |
| 200,001-1,000,000 | 300 | |
| Greater than 1,000,000 | 400 | |

V. BULK STORAGE

| Container No. | Container _____ | Container _____ | Container _____ | Container _____ |
|---|-----------------|-----------------|-----------------|-----------------|
| Container Manufacturer | | | | |
| Container Serial Number/National Board Number | | | | |
| Year Built | | | | |
| Container Water Capacity (gal.) | | | | |
| Horizontal or Vertical | | | | |
| New or Used | | | | |
| Size of Pressure Relief Valve (CFM) | | | | |
| Concrete or Steel Supports | | | | |
| Corrosion Protection between supports and tanks Yes or No | | | | |
| Distance to Nearest Bldg | | | | |
| Distance to Nearest Property Line | | | | |
| Distance to Nearest Residence | | | | |
| Distance Nearest Public Assembly | | | | |
| Distance to Nearest Public Way | | | | |

| | | | | |
|--|--|--|--|--|
| Distance to Nearest Flammable or Combustible Liquid Storage Tank | | | | |
| Distance Between Containers | | | | |

VI. Point of Transfer

If the point of transfer is not located at the container or the container is not stationary position, the distance between the point of transfer and the exposures shall be as follows: Table 6.5.3

| Part | Exposure | Minimum Horizontal Distance (ft) | Met | Not Met | N/A |
|----------|--|----------------------------------|--------------------------|--------------------------|--------------------------|
| A | Buildings,(a) mobile homes, recreational vehicles, and modular homes with fire-resistive walls (b) | 10 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| B | Buildings (a) with other than fire-resistive walls (b) | 25 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| C | Building wall openings or pits at or below the level of the point of transfer | 25 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| D | Line of adjoining property that can be built upon | 25 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| E | Outdoor places of public assembly including schoolyards, athletic fields, and playgrounds | 50 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| F | Public ways including public streets, highways, thoroughfares, and sidewalks | | | | |
| | (1) From points of transfer in LP-Gas dispensing stations and at vehicle fuel dispensers | 10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | (2) From other points of transfer | 25 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| G | Driveways (d) | 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| H | Mainline railroad track centerlines | 25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| I | Containers (e) other than those being filled | 10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| J | Flammable and Class II combustible liquid (f) dispensers and the fill connections of containers | 10 (c) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| K | Flammable and Class II combustible liquid containers, aboveground containers, and containers underground | 20 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

(a) Buildings, for the purpose of the table, also include structures such as tents and box trailers at construction sites.

(b) Walls constructed of noncombustible materials having, as erected, a fire resistance rating of at least 1 hour as determined by NFPA 251, *Standard Methods of Tests of Fire Endurance of Building Construction and Materials*.

(c) See 6.5.4.4.

(d) Not applicable to driveways and points of transfer at vehicle fuel dispensers.

(e) Not applicable to filling connections at the storage container or to dispensing vehicle fuel dispenser units of 2000 gal (7.6m³) water capacity or less when used for filling containers not mounted on vehicles.

(f) NFPA 30, *Flammable and Combustible Liquids Code*, defines these as follows:

Flammable liquids include those having a flash point below 100°F (37.8°C) and having a vapor pressure not exceeding 40 psia (an absolute pressure of 2068 mm Hg) at 100°F (37.8°C). Class II combustible liquids include those having a flash point at or above 100°F (37.8°C) and below 140°F (60°C).

VI. PORTABLE CYLINDER STORAGE, FILLING AND VEHICLE DISPENSING STATION

Cabinet Location, protection, signage and security comply with NFPA 58

Yes No

Security caps or collars shall be placed on all stored cylinders regardless of being full or empty. All cylinders valves must be closed and capped.

Met Not Met

All warning labels shall include information on the potential hazards of LP-Gas

Met Not Met

Are your containers designed, fabricated, tested and marked (or stamped) in accordance with US Dept of Transportation, ASME or the API-ASME? NFPA 58

Yes No

Do your vehicle Fuel Dispenser and Dispensing Stations comply with NFPA 58?

Yes No

Does your installation of Vehicle Fuel Dispensers comply with NFPA 58?

Yes No

VII. PLANS-DRAWINGS REQUIRED

Plans or drawings should document the location of tanks, lines, equipment, bulkheads, driveways, security fencing, etc. along with nearby structures and properties boundaries. Attach plan or drawing to application.

VIII. SUBMITTED APPLICATIONS

Submit the completed application and plans or drawings to the Office of the State Fire Marshal for review. The review time anticipated is no longer than twenty working days once received by the office. No installation shall take place until approval of the installation and an approval letter has been received by the owner/operator. All changes to the proposed plan must be approved prior to making the changes during installation.

IX. KANSAS PROPANE SAFETY and LICENSING ACT

A thirty five (\$35.00) dollar fee must accompany the application for review.

Make the check payable to: KANSAS STATE FIRE MARSHAL

X. APPLICANT'S CERTIFICATION

I certify that the information above and attached is true to the best of my knowledge and that all equipment will be installed in compliance with the manufacturer's installation requirements. This installation will be performed in compliance with all current approved federal, state and local regulations.

Owner's Signature:

Date:

Installer's Signature:

Date:

Contractor's Signature:

Date:

LP – Gas Plot Plan

