

# 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:

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**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
<b>A</b>	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>B</b>	Buildings (a) with other than fire-resistive walls (b)	25 (c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>C</b>	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"/>
<b>D</b>	Line of adjoining property that can be built upon	25 (c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>E</b>	Outdoor places of public assembly including schoolyards, athletic fields, and playgrounds	50 (c)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>F</b>	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"/>
<b>G</b>	Driveways (d)	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>H</b>	Mainline railroad track centerlines	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>I</b>	Containers (e) other than those being filled	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>J</b>	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"/>
<b>K</b>	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 (7.6m<sup>3</sup>) 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. 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

