

INFORMATION SHEET

LP-Gas Containers – City of Yreka Building Department

Code Reference:

California Fire Code (CFC), 2001 Edition, Article 82

NFPA Standard 58

California Mechanical Code (CMC), Appendix B, Chapter 13

For a permit to install, use, or maintain LP-gas container, complete this form and present it to the City of Yreka, Building Department, 701 Fourth Street, Yreka, CA 96097.

***There is a permit fee to process this application and inspect the installation.***

Address of Installation:	Date:
Owner of Property:	Telephone #:
Installer:	Telephone #:

**Your initials, at each item, indicates awareness of the regulation as they pertain to this installation:**

<input type="checkbox"/>	All locations will be approved by the Building Department or Fire Marshall prior to installation. Provide a plot plan showing size of tank, location of tank in reference to property lines and structures on site. See Table 8204-A.
<input type="checkbox"/>	All piping and electrical services will need to be approved by the Building Department. Permits are required for these installations.
<input type="checkbox"/>	All horizontal metallic piping shall have a minimum of 12 inches of earth cover and have a machine-applied, protective coating. All joints must be wrapped with an approved material. Horizontal piping above ground must be a minimum of six inches above finished grade. Plastic gas piping shall have at least 18 inches of earth cover and have a # 18 copper (with yellow insulation) tracer wire attached to the pipe. (There is no approved substitute for the #18 wire attached to the pipe.) See section 1211.5 California Plumbing Code for additional requirements.
<input type="checkbox"/>	Gas piping must be inspected and approved prior to covering the trench.
<input type="checkbox"/>	Prior to calling the Building Division for an inspection, the gas line must be pressurized to a minimum 10 psi. Be sure that the pressure is holding. The pressure gauge must be of 1/10 pound incrementation or less.
<input type="checkbox"/>	When using metallic pipe underground, an approved isolation fitting must be installed a minimum of six inches above grade.
<input type="checkbox"/>	A building shut-off valve is required on the outside of the building being served and must be accessible at all times. If using a ground joint union, it must be immediately on the discharge side if the building shut-off valve.
<input type="checkbox"/>	Liquified petroleum facilities shall not be located in any pit or basement, under windows or interior stairways, in engine, boiler, heater, or electric meter rooms.
<input type="checkbox"/>	Distributors shall not fill an LP-gas container or connect the piping system for which a permit is required unless the pipe has been tagged as inspected and approved (CPC, Section 8202.1).

- Equipment and piping will not be installed in locations where such equipment and piping are prohibited by the Mechanical Code (CMC 1311.4, Chapter 13, CFC 8203.3).
- Containers of 2,000 gallon water capacity or less shall be placed on concrete or masonry foundations (RMC 9.20.050). A 3 ½" thick concrete slab is an acceptable method of meeting this requirement. The slab shall be sized 4 feet by 8 feet. (See back page for diagram).

**TABLE 8204-A**

CONTAINER CAPACITY (Water Gallons)	MINIMUM SEPARATION BETWEEN CONTAINERS AND BUILDINGS, PUBLIC WAYS, OR LINES OR ADJOINING PROPERTY, THAT CAN BE BUILT UPON		MINIMUM SEPARATION BETWEEN CONTAINERS (FEET)
	Mounded or Underground Containers (Feet)	Aboveground Containers (Feet)	
Less than 125	10	5	None
125 to 250	10	10	None
251 to 500	10	10	3
501 to 2,000	10	25 <b>ef</b> *	3
2,001 to 30,000	50	50	5

Tanks less than 125 gallons can be up against a structure as long as tank openings are at least 5 feet from structure openings and 5 feet from overhead projections.

- Containers will also be located with respect to special hazards such as above ground flammable or Combustible liquid tanks, oxygen or gaseous hydrogen containers, flooding or electric power lines as Specified in CFC, Standard No. 82-1, Section 3-2.2.6.
- Liquefied petroleum gas will not be used for the purpose of operating devices or equipment unless such device or equipment is approved for use with LP-gas (CFC, Section 8205.1).
- Liquefied petroleum gas will not be released to the atmosphere, except through an approved liquid-level gauge or other approved device (CFC, Section 8205.2).
- Weeds, grass, brush, trash and other combustible materials will be kept not less than 10 feet from LP-gas tanks or containers (CFC, Section 8209).
- When exposed to probable vehicular damage due to proximity to alleys, driveways or parking area, LP-gas containers, regulators and piping will be suitably protected by bollards per Section 8210, Uniform Fire Code. (See back page for diagram).
- An onsite inspection of the placement of the tank and pad must be completed by the Building Department or Fire Marshall prior to the tank being filled by the LP-gas vendor.

\_\_\_\_\_  
Installer's Name - Print

\_\_\_\_\_  
Installer's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Accepted by Signature

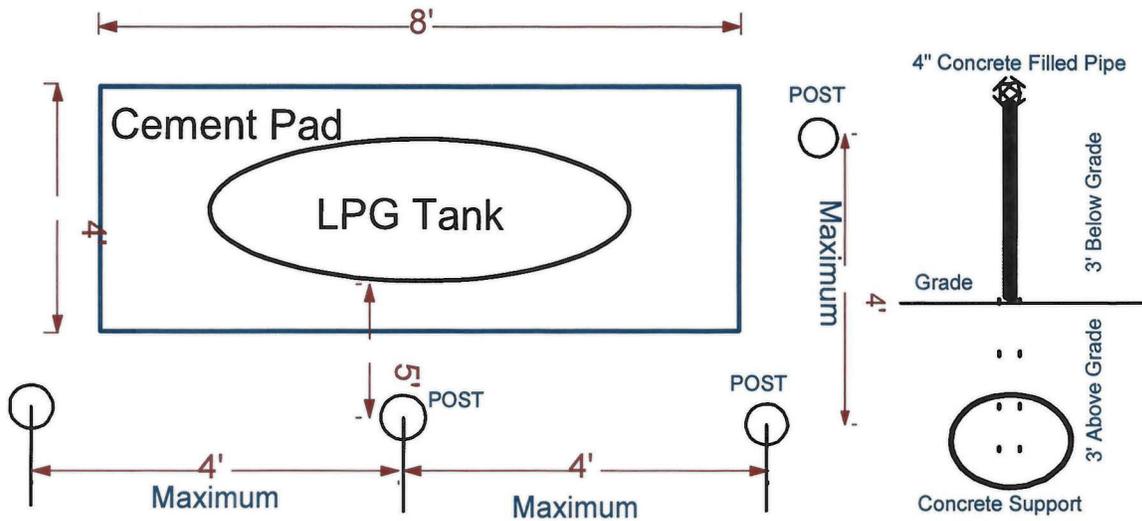
\_\_\_\_\_  
Date

**Note: You may use the back of this sheet for your site plan drawing.**

**ef\* See attached pg. 477 from 2013 California Fire Code**

# Protection from Vehicle Damage

California Fire Code 8001.11.3



## 5. Protected by other approved means.

Where one of these forms of protection is provided, the separation shall not be less than 25 feet (7620 mm) between LP-gas container groups.

### SECTION 6105 PROHIBITED USE OF LP-GAS

**6105.1 Nonapproved equipment.** LP-gas shall not be used for the purpose of operating devices or equipment unless such device or equipment is approved for use with LP-gas.

**6105.2 Release to the atmosphere.** LP-gas shall not be released to the atmosphere, except through an approved liquid-level gauge or other approved device.

### SECTION 6106 DISPENSING AND OVERFILLING

**6106.1 Attendants.** Dispensing of LP-gas shall be performed by a qualified attendant.

**6106.2 Overfilling.** LP-gas containers shall not be filled or maintained with LP-gas in excess of either the volume determined using the fixed liquid-level gauge installed by the manufacturer or the weight determined by the required percentage of the water capacity marked on the container. Portable LP-gas containers shall not be refilled unless equipped with an overfilling prevention device (OPD) where required by Section 5.7.3 of NFPA 58.

**6106.3 Dispensing locations.** The point of transfer of LP-gas from one LP-gas container to another shall be separated from exposures as specified in NFPA 58.

TABLE 6104.3  
LOCATION OF LP-GAS CONTAINERS

LP-GAS CONTAINER CAPACITY (water gallons)	MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS AND BUILDINGS, PUBLIC WAYS OR LOT LINES OF ADJOINING PROPERTY THAT CAN BE BUILT UPON		MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS <sup>b,c</sup> (feet)
	Mounded or underground LP-gas containers <sup>a</sup> (feet)	Above-ground LP-gas containers <sup>b</sup> (feet)	
Less than 125 <sup>c,d</sup>	10	5 <sup>e</sup>	None
125 to 250	10	10	None
251 to 500	10	10	3
501 to 2,000	10	25 <sup>e,f</sup>	3
2,001 to 30,000	50	50	5
30,001 to 70,000	50	75	(0.25 of sum of diameters of adjacent LP-gas containers)
70,001 to 90,000	50	100	
90,001 to 120,000	50	125	

For SI: 1 foot = 304.8 mm, 1 gallon = 3.785 L.

- Minimum distance for underground LP-gas containers shall be measured from the pressure relief device and the filling or liquid-level gauge vent connection at the container, except that all parts of an underground LP-gas container shall be 10 feet or more from a building or lot line of adjoining property which can be built upon.
- For other than installations in which the overhanging structure is 50 feet or more above the relief-valve discharge outlet. In applying the distance between buildings and ASME LP-gas containers with a water capacity of 125 gallons or more, a minimum of 50 percent of this horizontal distance shall also apply to all portions of the building which project more than 5 feet from the building wall and which are higher than the relief valve discharge outlet. This horizontal distance shall be measured from a point determined by projecting the outside edge of such overhanging structure vertically downward to grade or other level upon which the LP-gas container is installed. Distances to the building wall shall not be less than those prescribed in this table.
- When underground multicontainer installations are comprised of individual LP-gas containers having a water capacity of 125 gallons or more, such containers shall be installed so as to provide access at their ends or sides to facilitate working with cranes or hoists.
- At a consumer site, if the aggregate water capacity of a multicontainer installation, comprised of individual LP-gas containers having a water capacity of less than 125 gallons, is 500 gallons or more, the minimum distance shall comply with the appropriate portion of Table 6104.3, applying the aggregate capacity rather than the capacity per LP-gas container. If more than one such installation is made, each installation shall be separated from other installations by at least 25 feet. Minimum distances between LP-gas containers need not be applied.
- The following shall apply to above-ground containers installed alongside buildings:
  - LP-gas containers of less than a 125-gallon water capacity are allowed next to the building they serve when in compliance with Items 2, 3 and 4.
  - Department of Transportation (DOTn) specification LP-gas containers shall be located and installed so that the discharge from the container pressure relief device is at least 3 feet horizontally from building openings below the level of such discharge and shall not be beneath buildings unless the space is well ventilated to the outside and is not enclosed for more than 50 percent of its perimeter. The discharge from LP-gas container pressure relief devices shall be located not less than 5 feet from exterior sources of ignition, openings into direct-vent (sealed combustion system) appliances or mechanical ventilation air intakes.
  - ASME LP-gas containers of less than a 125-gallon water capacity shall be located and installed such that the discharge from pressure relief devices shall not terminate in or beneath buildings and shall be located at least 5 feet horizontally from building openings below the level of such discharge and not less than 5 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances, or mechanical ventilation air intakes.
  - The filling connection and the vent from liquid-level gauges on either DOTn or ASME LP-gas containers filled at the point of installation shall not be less than 10 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances or mechanical ventilation air intakes.
- This distance is allowed to be reduced to not less than 10 feet for a single LP-gas container of 1,200-gallon water capacity or less, provided such container is at least 25 feet from other LP-gas containers of more than 125-gallon water capacity.