



FIRE DEPARTMENT – CLASS 1 • FIRE AND ENVIRONMENTAL PROTECTION DIVISION  
500 Castro Street • City Hall • 4th Floor • Mountain View • California • 94041-2010  
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**Plan Check Requirements for:  
LPG/PROPANE STORAGE  
(Update – 1/17)**

The Fire and Environmental Protection Division of the Mountain View Fire Department (650-903-6378) will review your submitted plans using this plan check guideline.

*Where appropriate, enter below the page number of your submitted plans where the item asked for is indicated and highlight the item in your plans. Include brochures, manufacturer’s cut sheets, and calculations with the plans when asked for.*

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**Facility**

**Name:** \_\_\_\_\_ **Address:** \_\_\_\_\_

**Architect**

**Name:** \_\_\_\_\_ **Phone:** \_\_\_\_\_ **PC#:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**CFC CHAPTER 61, LIQUEFIED PETROLEUM GASES (LPG)**

**Applies To: Storage and handling of LPG tanks and cylinders.**

1. Propane tanks shall not exceed 2,000-gallon capacity (CFC 6104.2). *Attach manufacturer’s cut sheet on the tank.* Plan or Cut Sheet Page Number: \_\_\_\_\_.
2. Propane tanks shall be separated from buildings, street and property lines as per the table on the next page (CFC 6104.3). *Indicate these distances on the plans.* Plan Page Number: \_\_\_\_\_.
3. Multiple container installations with a total water storage capacity of more than 180,000 gallons shall be subdivided into groups containing not more than 180,000 gallons in each group. Such groups shall be separated by a distance of not less than 50’ unless the containers are:
  - a. Mounded in an approved manner;
  - b. Protected with approved insulation on areas that are subject to impingement of ignited gas from pipelines or other leakage;
  - c. Protected by firewalls of approved construction;
  - d. Protected by an approved system for application of water as specified in NFPA 58, Table 6.4.2;
  - e. Protected by other approved means.

When one of these forms of protection is provided, the separation shall not be less than 25' between container groups (CFC 6104.4). *Show grouping and separation distance on the plans.* Plan Page Number: \_\_\_\_\_.

4. Dispensing of LP gases shall be performed by a qualified attendant (CFC 6106.1). *Indicate the person qualified for dispensing.* Plan Page Number: \_\_\_\_\_.
5. A minimum 20-B:C fire extinguisher shall be located within 30' of the tank (CFC 6108.2) Plan Page Number: \_\_\_\_\_.
6. "No Smoking" signs shall be posted within 25' of the tank (CFC 6107.2). *Indicate the location of the sign on the plans.* Plan Page Number: \_\_\_\_\_.
7. Tanks must be maintained at least 10' away from any combustibles, including weeds, grass, pallets, etc. (CFC 6107.3). Plan Page Number: \_\_\_\_\_.
8. When exposed to probable vehicular damage, bollards shall be installed as follows (CFC 6107.4; 312):
  - a. Constructed of steel not less than 4" in diameter and concrete filled;
  - b. Spaced not more than 4' between posts on center;
  - c. Set at least 3' deep in a concrete footing of at least 15" diameter;
  - d. Extend at least 3' above ground;
  - e. Located at least 3' away from the tank.

*Indicate these dimensions and specs on the plans.* Plan Page Number: \_\_\_\_\_.

9. Tanks shall be seismically braced per NFPA 58. *Indicate seismic bracing on plans.* Plan Page Number: \_\_\_\_\_.
10. Fire protection shall be provided for installation having storage containers of more than a 4,000-gallon water capacity (CFC 6108.1). *Show the fire protection installation on the plans.* Plan Page Number: \_\_\_\_\_.

**For Portable Container Storage Awaiting Use or Resale:**

11. Containers stored in buildings shall not be located near exit-access doors, exits, stairways, or in areas normally used, or intended to be used, for the safe egress of people (CFC 6109.4). *Show the storage location on the plans and the distances to the nearest doors and exits.* Plan Page Number: \_\_\_\_\_.
12. Containers shall not be stored in a basement, pit, or similar location where heavier-than-air gas might collect. Containers shall not be stored in above-grade underfloor spaces or basements unless such location is provided with an approved means of ventilation. EXCEPTION: 2.5-pound DOT containers for use in completely self-contained hand torches where the quantity of LPG does not exceed 20 pounds (CFC 6109.7). *If applicable, show the provided ventilation or certify that the exception conditions will be met.* Plan Page Number: \_\_\_\_\_.
13. Containers shall be stored within a suitable enclosure or otherwise protected against tampering (CFC 6109.13). *Indicate the type of enclosure to be used.* Plan Page Number: \_\_\_\_\_.

14. Exterior storage separation from buildings, streets, and property lines shall be as follows (CFC Table 6109.12):

**SEPARATION FROM EXPOSURE OF CONTAINERS AWAITING USE, RESALE OR EXCHANGE  
STORED OUTSIDE OF BUILDINGS FROM EXPOSURES**

QUANTITY OF LP-GAS STORED (pounds)	MINIMUM SEPARATION DISTANCE FROM STORED CYLINDERS TO (feet)						
	Nearest Important Building or Group of Buildings or Line of Adjoining Property That May be Built Upon	Line of Adjoining Property Occupied by Schools, Places of Religious Worship, Hospitals, Athletic Fields or Other Points of Public Gathering; Busy Thoroughfares; or Sidewalks	LP-Gas Dispensing Station	Doorway or Opening to a Building with Two or More Means of Egress	Doorway or Opening to a Building with One Means of Egress	Combustible Materials	Motor Vehicle Fuel Dispenser
720 or less	0	0	5	5	10	10	20
721-2,500	0	10	10	5	10	10	20
2,501-6,000	10	10	10	10	10	10	20
6,001-10,000	20	20	20	20	20	10	20
Over 10,000	25	25	25	25	25	10	20

For SI: 1 foot = 304.8 mm, 1 pound = 0.454 kg.

Indicate these distances on the plans. Plan Page Number: \_\_\_\_\_.