CHAPTER 38

LIQUEFIED PETROLEUM GASES

3801.1 Scope. Storage, handling and transportation of LP-gas and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this chapter and NFPA 58. Properties of LP-gas shall be determined in accordance with Appendix B of NFPA 58.

Refer to ORS 480.410 through 480.460 and OAR 837-030-0100 through 837-030-0280 for administrative provisions pertaining to liquefied petroleum gas licensing and notification of liquefied petroleum gas installations.

ORS 480.410 through 480.460 and OAR 837-030-0100 through 837-030-0280 are not a part of this code but are reproduced or paraphrased here for the reader's convenience.

ORS 480.410 through 480.460 are the regulations establishing minimum general standards for the design, construction, location, installation and operation of equipment for storing, handling, transporting by tank truck or tank trailer and utilizing liquid petroleum gases and specifying the degree of odorization of the gases, and shall establish standards and rules for the issuance, suspension and revocation of licenses.

OAR 837-030-0100 through 837-030-0280 implements the standards, policies and procedures for liquefied petroleum gas, including: fire and life safety requirements, examinations, tank installations, inspections, penalties and fees, and establishes requirements for the issuance, denial, suspension and revocation of licenses.

3801.3 Construction documents. Where a single LP-gas container is more than 2,000 gallons (7570 L) in water capacity or the aggregate capacity of LP-gas containers is more than 4,000 gallons (15 140 L) in water capacity, the installer shall submit construction documents for such installations. **The State Fire Marshal may collect a plan review fee as required by Oregon Administrative Rule, Chapter 837, Division 30.**

Table 3804.3

TABLE 3804.3
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-GASCONTAINERS[b, c] (feet)
	Mounded or underground LP-gas containers[3] (feet)	Above-ground LP-gascontainers[1] (feet)	
Less than 125[c, d]	10	5[e]	None
125 to 250	10	10	None
251 to 500	10	10	3
501 to 2,000	10	25[e, f]	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.

a. 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 con-tainer, 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.

b. 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.

c. When underground multicontainer installations are comprised of individual LP-gas containers having a water capacity of 125 gallons or more, such containers shall be in-stalled so as to provide access at their ends or sides to facilitate working with cranes or hoists.

d. 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 gal-lons, is 500 gallons or more, the minimum distance shall comply with the appropriate portion of Table 3804.3, 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.

e. The following shall apply to above-ground containers ~~installed alongside buildings~~:

1. LP-gas containers of less than a 125-gallon water capacity are allowed next to the building they serve **and lines of adjoining property** when in compliance with Items 2, 3 and 4.
2. 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.
3. 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.
4. 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.

f. This distance is allowed to be reduced to not less than lO feet for a LP-gas single 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.