

1301:7-7-61 Liquefied petroleum gases.

(A) Section 6101 General

(1) **6101.1 Scope.** Storage, handling and transportation of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this *rule* and NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*. Properties of LP-gases shall be determined in accordance with Appendix B of NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(2) **6101.2 Permits.** Permits shall be required as set forth in rule [1301:7-7-01](#) of the *Administrative Code* for stationary installations utilizing storage containers over 2,000 gallons individual water capacity; or, for all rooftop installations of ASME containers; or, for multiple containers exceeding 4,000 gallons water capacity aggregate.

Distributors shall not fill an LP-gas container for which a permit is required unless a permit for installation has been issued for that location by the fire code official.

(3) **6101.3 Construction documents.** Where a single LP-gas container is more than 2,000 gallons (7570 L) in water capacity or the aggregate water capacity of LP-gas containers is more than 4,000 gallons (15 140 L), the installer shall submit construction documents for such installation.

(B) Section 6102 Definitions

(1) **6102.1 Definitions.** The following terms are defined in rule [1301:7-7-02](#) of the *Administrative Code*.

"Liquefied petroleum gas (LP-gas)."

"LP-gas container."

(C) Section 6103 Installation of equipment

(1) **6103.1 General.** LP-gas equipment shall be installed in accordance with the International Fuel Gas Code and NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*, except as otherwise provided in this *rule*.

(2) **6103.2 Use of LP-gas containers in buildings.** The use of LP-gas containers in buildings shall be in accordance with paragraphs (C)(2)(a)(6103.2.1) and (C)(2)(b)(6103.2.2) of this *rule*.

(a) **6103.2.1 Portable containers.** Portable LP-gas containers, as defined in NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*, shall not be used in buildings except as specified in NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code* and paragraphs (C)(2)(a)(i)(6103.2.1.1) to (C)(2)(a)(vii)(6103.2.1.7) of this *rule*.

(i) **6103.2.1.1 Use in basement, pit or similar location.** LP-gas containers shall not be used in a basement, pit or similar location where heavier-than-air gas might collect unless otherwise permitted by NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*. LP-gas containers shall not be used in an above-grade underfloor space or basement unless such location is provided with an approved means of ventilation.

Exception: Use with self-contained torch assemblies in accordance with paragraph (C)(2)(a)(vi)(6103.2.1.6) of this *rule*.

(ii) **6103.2.1.2 Construction and temporary heating.** Portable LP-gas containers are allowed to be used in buildings or areas of buildings undergoing construction or for temporary heating as set forth in sections 6.20.4, 6.20.5 and 6.20.8 of NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(iii) **6103.2.1.3 Group F occupancies.** In Group F occupancies, portable LP-gas containers are allowed to be used to supply quantities necessary for processing, research or experimentation. Where manifolded, the aggregate water capacity of such containers shall not exceed 735 pounds (334 kg) per manifold. Where multiple manifolds of such containers are present in the same room, each manifold shall be separated from other manifolds by a distance of not less than 20 feet (6096 mm).

(iv) **6103.2.1.4 Group E and I occupancies.** In Group E and I occupancies, portable LP-gas containers are allowed to be used for research and experimentation. Such containers shall not be used in classrooms. Such containers shall not exceed a 50-pound (23 kg) water capacity in occupancies used for educational purposes and shall not exceed a 12-pound (5 kg) water capacity in occupancies used for institutional purposes. Where more than one such container is present in the same room, each container shall be separated from other containers by a distance of not less than 20 feet (6096 mm).

(a) **6103.2.1.4.1.** *Cylinders not connected for use shall be stored in accordance with paragraph (1)(6109) of this rule.*

Exception: *Cylinders shall not be stored in a laboratory room.*

(v) **6103.2.1.5 Demonstration uses.** Portable LP-gas containers are allowed to be used temporarily for demonstrations and public exhibitions. Such containers shall not exceed a water capacity of 12 pounds (5 kg). Where more than one such container is present in the same room, each container shall be separated from other containers by a distance of not less than 20 feet (6096 mm).

(vi) **6103.2.1.6 Use with self-contained torch assemblies.** Portable LP-gas containers are allowed to be used to supply approved self-contained torch assemblies or similar appliances. Such containers shall not exceed a water capacity of 2½ pounds (1 kg).

(vii) **6103.2.1.7 Use for food preparation.** Where approved, listed LP-gas commercial food service appliances are allowed to be used for food-preparation within restaurants in attended commercial food-catering operations in accordance with the International Fuel Gas Code, the *mechanical code* and NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(a) **6103.2.1.7.1.** *Cylinders used with commercial food service appliances shall be used inside restaurants and in attended commercial food catering operations in accordance with the following:*

(i) *Cylinders and appliances shall be listed.*

(ii) *Commercial food service appliances shall not have more than two 10-ounce (296 ml) nonrefillable butane gas cylinders, each having a maximum capacity of 1.08 lb (0.490 Kg).*

(iii) *Cylinders shall comply with UL 147B as listed in rule [1301:7-7-80](#) of the *Administrative Code*.*

(iv) *Cylinders shall be connected directly to the appliance and shall not be manifolded.*

(v) *Cylinders shall be an integral part of the listed, approved, commercial food service device and shall be connected without the use of a rubber hose.*

(vi) *Storage of cylinders shall be in accordance with paragraph (I)(6109) of this rule.*

(b) **6103.2.2 Industrial vehicles and floor maintenance machines.** LP-gas containers on industrial vehicles and floor maintenance machines shall comply with sections 11.13 and 11.14 of NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(3) **6103.3 Location of equipment and piping.** Equipment and piping shall not be installed in locations where such equipment and piping is prohibited by the International Fuel Gas Code as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(D) Section 6104 Location of LP-gas containers

(1) **6104.1 General.** The storage and handling of LP-gas and the installation and maintenance of related equipment shall comply with NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code* and be subject to the approval of the fire code official, except as provided in this rule.

(2) **6104.2 Maximum capacity within established limits.** Within the limits established by law restricting the storage of liquefied petroleum gas for the protection of heavily populated or congested areas, the aggregate capacity of any one installation shall not exceed a water capacity of 2,000 gallons (7570 L).

Exception.:

1. In particular installations, this capacity limit shall be determined by the fire code official, after consideration of special features such as topographical conditions, nature of occupancy, and proximity to buildings, capacity of proposed LP-gas containers, degree of fire protection to be provided and capabilities of the local fire department.

2. Where LP-gas storage containers having an aggregate water capacity of more than 4,000 gallons (15.1 m³) are located in heavily populated or congested areas, the citing provisions of paragraph (D)(6104) of this rule shall be permitted to be modified as indicated by the fire safety analysis described in section 6.25.3 of NFPA 58 as listed in rule [1301:7-7-80](#) of the *Administrative Code*.

(3) **6104.3 Container location.** LP-gas containers shall be located with respect to buildings, public ways and lot lines of adjoining property that can be built upon, in accordance with Table 6104.3 of this rule.

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 ^{b,c} (feet)
	Mounded or underground LP-gas containers ^a (feet)	Above-ground LP-gas containers ^b (feet)	
Less than 125 ^{c,d}	10	5 ^c	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 container, except that all parts of an underground LP-gas container shall be not less than 10 feet from a building or lot line of adjoining property that 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, not less than 50 *per cent* of this horizontal distance shall also apply to all portions of the building that project more than 5 feet from the building wall and that 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 be not less than those prescribed in this table.

c. Where 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.

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 gallons, is 500 gallons or more, the minimum distance shall comply with the appropriate portion of Table 6104.3 of this rule, 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 not less than 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 where 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 not less than 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 *per cent* 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 not less than 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 10 feet for a single LP-gas container of 1,200-gallon water capacity or less, provided such container is not less than 25 feet from other LP-gas containers of more than 125-gallon water capacity.

(a) **6104.3.1 Installation on roof prohibited.** LP-gas containers used in stationary installations shall not be located on the roofs of buildings.

(b) **6104.3.2 Special hazards.** LP-gas containers shall be located with respect to special hazards including, but not limited to, above-ground flammable or combustible liquid tanks, oxygen or gaseous hydrogen containers, flooding or electric power lines as specified in section 6.4.4 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.

(4) **6104.4 Multiple LP-gas container installations.** Multiple LP-gas container installations with a total water storage capacity of more than 180,000 gallons (681 300 L) [150,000-gallon (567 750 L) LP-gas capacity] shall be subdivided into groups containing not more than 180,000 gallons (681 300 L) in each group. Such groups shall be separated by a distance of not less than 50 feet (15 240 mm), unless the containers are protected in accordance with one of the following:

(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 Table 6.4.1.2 of NFPA 58 as listed in rule [1301:7-7-80](#) of the

Administrative Code.

(e) Protected by other approved means.

(f) *Where the provisions of sections 6.26.3 and 6.26.4 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code are met, the minimum separation distance between groups of ASME containers protected by hose stream only shall be one-half the distances in Table 6.5.3 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.*

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

(E) Section 6105 Prohibited use of LP-gas

(1) **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 *in accordance with Chapter 5 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(2) **6105.2 Release to the atmosphere.** LP-gas shall not be released to the atmosphere, except in accordance with section 7.3 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(F) Section 6106 Dispensing and overfilling

(1) **6106.1 Attendants.** Dispensing of LP-gas shall be performed by a qualified attendant *in accordance with section 4.4 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(2) **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 in accordance with the manufacturer's specifications and in accordance with section 5.75 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code* 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 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(3) **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 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(G) Section 6107 Safety precautions and devices

(1) **6107.1 Safety devices.** Safety devices on LP-gas containers, equipment and systems shall not be tampered with or made ineffective.

(2) **6107.2 Smoking and other sources of ignition.** "No Smoking" signs complying with *paragraph (J)(310) of rule [1301:7-7-03](#) of the Administrative Code* shall be posted where required by the fire code official. Smoking within 25 feet (7620 mm) of a point of transfer, while filling operations are in progress at LP-gas containers or vehicles, shall be prohibited.

Control of other sources of ignition shall comply with *rule [1301:7-7-03](#) of the Administrative Code* and section 6.23 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(3) **6107.3 Clearance to combustibles.** Weeds, grass, brush, trash and other combustible materials shall be kept not less than 10 feet (3048 mm) from LP-gas tanks or containers.

(4) **6107.4 Protecting containers from vehicles.** Where exposed to vehicular damage due to proximity to alleys, driveways or parking areas, LP-gas containers, regulators and piping shall be protected in accordance with NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(5) **6107.5 Transfer.** *Transfer of LP-gas to and from an LP-gas container shall be conducted with permission of the owner of the container.*

(H) Section 6108 Fire protection

(1) **6108.1 General.** Fire protection shall be provided for installations having LP-gas storage containers with a water capacity of more than 4,000 gallons (15 140 L), as required by section 6.27 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(2) **6108.2 Portable fire extinguishers.** Portable fire extinguishers complying with *paragraph (F)(906) of rule [1301:7-7-09](#) of the Administrative Code* shall be provided as specified in NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(I) Section 6109 Storage of portable LP-gas containers awaiting use or resale

(1) **6109.1 General.** Storage of portable LP-gas containers of 1,000 pounds (454 kg) or less, whether filled, partially filled or empty, at consumer sites or distribution points, and for resale by dealers or resellers shall comply with *paragraphs (I)(2)(6109.2) to (I)(15) (a)(6109.15.1) of this rule.*

Exceptions:

1. LP-gas containers that have not previously been in LP-gas service.

2. LP-gas containers at distribution plants.

3. LP-gas containers at consumer sites or distribution points, which are connected for use.

(2) **6109.2 Exposure hazards.** LP-gas containers in storage shall be located in a manner that minimizes exposure to excessive temperature rise, physical damage or tampering.

(3) **6109.3 Position.** LP-gas containers in storage having individual water capacity greater than 2½ pounds (1 kg) [nominal 1-pound (0.454 kg) LP-gas capacity] shall be positioned with the pressure relief valve in direct communication with the vapor space of the container.

(4) **6109.4 Separation from means of egress.** LP-gas containers stored in buildings in accordance with *paragraphs* (I)(9)(6109.9) and (I)(11)([6109.11](#)) of *this rule* shall not be located near exit access doors, exits, stairways or in areas normally used, or intended to be used, as a means of egress.

(5) **6109.5 Quantity.** Empty LP-gas containers that have been in LP-gas service shall be considered as full containers for the purpose of determining the maximum quantities of LP-gas allowed in *paragraphs* (I)(9)(6109.9) and (I)(11)([6109.11](#)) of *this rule*.

(6) **6109.6 Storage on roofs.** LP-gas containers that are not connected for use shall not be stored on roofs.

(7) **6109.7 Storage in basement, pit or similar location.** LP-gas containers shall not be stored in a basement, pit or similar location where heavier-than-air gas might collect *unless otherwise permitted by NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code*. LP-gas containers shall not be stored in above-grade underfloor spaces or basements unless such location is provided with an approved means of ventilation.

Exception: Department of transportation (DOTn) specification cylinders with a maximum water capacity of 2½ pounds (1 kg) for use in completely self-contained hand torches and similar applications. The quantity of LP-gas shall not exceed 20 pounds (9 kg).

(8) **6109.8 Protection of valves on LP-gas containers in storage.** LP-gas container valves shall be protected by screw-on-type caps or collars that shall be securely in place on all containers stored regardless of whether they are full, partially full or empty. Container outlet valves shall be closed or plugged.

(9) **6109.9 Storage within buildings accessible to the public.** Department of transportation (DOTn) specification cylinders with maximum water capacity of 2½ pounds (1 kg) used in completely self-contained hand torches and similar applications are allowed to be stored or displayed in a building accessible to the public. The quantity of LP-gas shall not exceed 200 pounds (91 kg) except as provided in *paragraph* (I)(11)([6109.11](#)) of *this rule*.

(a) **6109.9.1. Storage in restaurants and at food service locations of 10 ounces (283 g) butane nonrefillable containers shall be limited to no more than 24 containers, and an additional twenty-four 10 ounce (283 g) butane nonrefillable containers stored in another location within the building, where constructed with at least a 2-hour fire wall protection.**

(10) **6109.10 Storage within buildings not accessible to the public.** The maximum quantity allowed in one storage location in buildings not accessible to the public, such as industrial buildings, shall not exceed a water capacity of 735 pounds (334 kg) [nominal 300 pounds (136 kg) of LP-gas]. Where additional storage locations are required on the same floor within the same building, they shall be separated by not less than 300 feet (91 440 mm). Storage beyond these limitations shall comply with *paragraph* (I)(11)([6109.11](#)) of *this rule*.

(a) **6109.10.1 Quantities on equipment and vehicles.** LP-gas containers carried as part of service equipment on highway mobile vehicles need not be considered in the total storage capacity in *paragraph* (I)(10)(6109.10) of *this rule*, provided such vehicles are stored in private garages and do not carry more than three LP-gas containers with a total aggregate LP-gas capacity not exceeding 100 pounds (45.4 kg) per vehicle. LP-gas container valves shall be closed.

(b) **6109.10.2 Storage within residential buildings.** *Storage of cylinders within a residential building, including the basement or any storage area in a common basement storage area in multiple-family buildings and attached garages, shall be limited to cylinders each with a maximum water capacity of 2.7 pounds (1.2 kg) and shall not exceed 5.4 pounds (2.4 kg) aggregate water capacity for smaller cylinders per each living space unit.*

(11) **6109.11 Storage within rooms used for gas manufacturing.** Storage within buildings or rooms used for gas manufacturing, gas storage, gas-air mixing and vaporization, and compressors not associated with liquid transfer shall comply with *paragraphs* (I)(11) (a)(6109.11.1) and (I)(11)(b)(6109.11.2) of *this rule*.

(a) **6109.11.1 Quantity limits.** The maximum quantity of LP-gas shall be 10,000 pounds (4540 kg).

(b) **6109.11.2 Construction.** The construction of such buildings and rooms shall comply with requirements for Group H occupancies in the *building code*, Chapter 10 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code* and both of the following:

(i) Adequate vents shall be provided to the outside at both top and bottom, located not less than 5 feet (1524 mm) from building openings.

(ii) The entire area shall be classified for the purposes of ignition source control in accordance with section 6.23 of NFPA 58 *as listed in rule [1301:7-7-80](#) of the Administrative Code*.

(12) **6109.12 Location of storage outside of buildings.** Storage outside of buildings of LP-gas containers awaiting use, resale or part of a cylinder exchange program shall be located in accordance with Table [6109.12](#) of this rule.

Table [6109.12](#)

Separation from exposures of LP-gas containers awaiting use, resale or exchange stored outside of buildings

Quantity of LP-gas stored (pounds)	Minimum separation distance from stored LP-gas 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 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.

(13) **6109.13 Protection of containers.** LP-gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicle impact protection shall be provided as required by *paragraph* (G)(4)(6107.4) of this rule.

Exception: Vehicle impact protection shall not be required for protection of LP-gas containers where the containers are kept in lockable, ventilated cabinets of metal construction.

(a) **6109.13.1.** *Cylinders at a location open to the public shall be protected by either of the following:*

(i) *An enclosure in accordance with section 6.18.4.1 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.*

(ii) *A lockable ventilated metal locker or rack that prevents tampering with valves and pilferage of the cylinder.*

(a) **6109.13.1.1** *Protection against vehicle impact shall be provided in accordance with good engineering practice where vehicle traffic normally is expected at that location.*

(14) **6109.14 Alternative location and protection of storage.** Where the provisions of *paragraphs* (I)(12)([6109.12](#)) and (I)(13)([6109.13](#)) of this rule are impractical at construction sites, or at buildings or structures undergoing major renovation or repairs, the storage of containers shall be as required by the fire code official.

(15) **6109.15 LP-gas cylinder exchange for resale.** In addition to other applicable requirements of this rule, facilities operating LP-gas cylinder exchange stations that are accessible to the public shall comply with the following requirements.

1. Cylinders shall be secured in a lockable, ventilated metal cabinet or other approved enclosure.

2. Cylinders shall be accessible only by authorized personnel or by use of an automated exchange system in accordance with *paragraph* (I)(15)(a)(6109.15.1) of this rule.

3. A sign shall be posted on the entry door of the business operating the cylinder exchange stating "DO NOT BRING LP-GAS CYLINDERS INTO THE BUILDING" or similar approved wording.

4. An emergency contact information sign shall be posted within 10 feet (3048 mm) of the cylinder storage cabinet. The content, lettering, size, color and location of the required sign shall be as required by the fire code official.

(a) **6109.15.1 Automated cylinder exchange stations.** Cylinder exchange stations that include an automated vending system for exchanging cylinders shall comply with the following additional requirements:

(i) The vending system shall only permit access to a single cylinder per individual transaction.

- (ii) Cabinets storing cylinders shall be designed such that cylinders can only be placed inside when they are oriented in the upright position.
- (iii) Devices operating door releases for access to stored cylinders shall be permitted to be pneumatic, mechanical or electrically powered.
- (iv) Electrical equipment inside of or within 5 feet (1524 mm) of a cabinet storing cylinders, including but not limited to electronics associated with vending operations, shall comply with the requirements for Class I, Division 2 equipment in accordance with NFPA 70 as listed in rule [1301:7-7-80](#) of the Administrative Code.
- (v) A manual override control shall be permitted for use by authorized personnel. On newly installed cylinder exchange stations, the vending system shall not be capable of returning to automatic operation after a manual override until the system has been inspected and reset by authorized personnel.
- (vi) Inspections shall be conducted by authorized personnel to verify that all cylinders are secured, access doors are closed and the station has no visible damage or obvious defects that necessitate placing the station out of service. The frequency of inspections shall be as specified by the fire code official.

(J) Section 6110 LP-gas containers not in service

(1) **6110.1 Temporarily out of service.** LP-gas containers whose use has been temporarily discontinued shall comply with all of the following:

- (a) Be disconnected from appliance piping.
- (b) Have LP-gas container outlets, except relief valves, closed or plugged.
- (c) Be positioned with the relief valve in direct communication with the LP-gas container vapor space.

(2) **6110.2 Permanently out of service.** LP-gas containers to be placed permanently out of service shall be removed from the site.

(K) Section 6111 Parking and garaging of LP-gas tank vehicles

(1) **6111.1 General.** Parking of LP-gas tank vehicles shall comply with *paragraphs* (K)(2)(6111.2) and (K)(3)(6111.3) of this rule.

Exception: In cases of accident, breakdown or other emergencies, LP-gas tank vehicles are allowed to be parked and left unattended at any location while the operator is obtaining assistance.

(2) **6111.2 Unattended parking.** The unattended parking of LP-gas tank vehicles shall be in accordance with *paragraphs* (K)(2)(a)(6111.2.1) and (K)(2)(b)(6111.2.2) of this rule.

(a) **6111.2.1 Near residential, educational and institutional occupancies and other high-risk areas.** LP-gas tank vehicles shall not be left unattended at any time on residential streets or within 500 feet (152 m) of a residential area, apartment or hotel complex, educational facility, hospital or care facility. Tank vehicles shall not be left unattended at any other place that would, in the opinion of the fire code official, pose an extreme life hazard.

(b) **6111.2.2 Durations exceeding 1 hour.** LP-gas tank vehicles parked at any one point for longer than 1 hour shall be located as follows:

- (i) Off public streets, highways, public avenues or public alleys.
- (ii) Inside of a bulk plant.
- (iii) At other approved locations not less than 50 feet (15 240 mm) from buildings other than those approved for the storage or servicing of such vehicles.

(3) **6111.3 Garaging.** Garaging of LP-gas tank vehicles shall be as specified in NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code. Vehicles with LP-gas fuel systems are allowed to be stored or serviced in garages as specified in section 11.16 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code.

(L) Section 6112 Inspection of DOTn cylinders

(1) **6112.1.** All DOTn cylinders in stationary service on the effective date of this rule, and which are not requalified according to DOTn standards, shall be inspected according to the criteria of sections 5.2.2.2 and 5.2.2.3 of NFPA 58 as listed in rule [1301:7-7-80](#) of the Administrative Code, no later than September 1, 2008.

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