

CITY AND COUNTY OF DENVER	POLICY	DENVER FIRE DEPARTMENT
Subject: PROPANE CAGE AND TEMPORARY PORTABLE TANK INSTALLATION POLICY		
Reference: IFC, Denver Amendments, and NFPA 55, 58		
Approved: Joseph L. Gonzales, Division Chief - Fire Prevention and Investigation Division		
Number:	Effective Date: November 1, 2013	Page 1 of 5

This policy is meant to provide basic information for most common conditions and situations. In any given occupancy, all other Fire Code requirements will be enforced. These will be addressed by the Fire Inspector during a premise inspection. Any questions can be addressed by the Fire Prevention Division between 6:30 a.m. and 4:30 p.m. at (720) 913-3474 or at FLAMMABLES@DENVERGOV.ORG. You may obtain a WALK IN PERMIT between 6:30 a.m. and 9:00 a.m. ONLY, Monday-Friday at 745 West Colfax Avenue – 1st Floor.

I. SCOPE

The installation of LPG cylinder cages/portable temporary tanks must be approved by the Denver Fire Department in advance.

An **LPG Tank/Cage Installation Permit** must be obtained by the vendor *prior* to the delivery or installation of an LPG cylinder storage cage.

An **LPG Tank/Cage Installation Permit** must be obtained by the vendor *prior* to the delivery of any LPG cylinder for temporary use at any site. (For example chili roasting, roofing or any other operation/activity involving the use of portable LPG cylinders).

A separate, **LPG Use & Storage Permit** shall be obtained by/for the end user *prior* to the delivery of any LPG.

II. PERMITS

Permits must be obtained from the Denver Fire Department, Fire Prevention Division. Permits shall be kept on site for inspection. The following information must be provided for permit processing:

- Business Name, phone number, fax number, and address
- Contact Name, phone number, fax number and email address
- Property/business owner name, phone number, fax number, and address.
- Site address
- List the use(s) for LPG, eg. forklift, welding, temporary heater, etc.
- List the number of cylinders; include the weight (in pounds) of each individual cylinder, tank.

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- List total weight of all LPG on site; include inside and outside use and/or storage.
- Site/Building plan indicating LPG use/storage area.
- Show distances from all buildings, property lines, utility poles, power lines, etc. (For storage area include distance from all building openings: windows, doors, vents, etc).
- Presence/absence of Code complying/functional sprinkler system

COSTS AND CONDITIONS OF PERMITS

The cost of a tank or cage installation permit is: \$125.00

Make check payable to **Denver Manager of Finance**. **Walk-in** permits may be obtained at 745 West Colfax Avenue, 1st Floor, Monday-Friday, 6:30 a.m. to 9:00 a.m. **ONLY**. **Mail-in** applications to 745 W. Colfax Avenue, Denver, CO 80204. Or via email to Flammables@DenverGov.org

III. SITE INSPECTION

Upon approval of an LPG Use and/or Storage Permit Application, a Denver Fire Prevention Inspector will conduct a field inspection of the site. Compliance with all Fire Code requirements shall be maintained at all times. Permit shall be posted on site. Permit is valid only for the business/property owner, time frame, and site address indicated on the permit. A permit may be revoked if:

1. Any of the conditions or limitations set forth in the permit are violated.
2. Compliance with any written order is not achieved.
3. False statements or misrepresentations of information provided in the permit application are discovered.
4. The permit is issued in error or in violation of a City ordinance, or a Fire Code violation exists

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IV. GENERAL REQUIREMENTS

1. "NO SMOKING" and "FLAMMABLE" signs shall be posted and this restriction enforced. **2009 IFC 3807.2**
2. A minimum 2-A-20-BC rated fire extinguisher must be within 75 feet of LPG use. **2009 IFC TABLE 906.3(2)**
3. No ignition sources within 25 feet of LPG. **2009 IFC 2703.7.1**
4. Piping shall be protected in an approved manner. **2009 IFC 2703.2.2**
5. No LPG storage shall be allowed within 20 feet of any opening, window, door, vent, etc. **2009 IFC 3809.4**
6. No LPG storage shall be allowed within 10 feet of building exits.
2009 IFC 3809.4 – NFPA 8.4.1.1
7. Approved vehicle protection must be provided for LPG tanks/cages. **Jersey barriers** must be provided for sites with temporary LPG use. **Bollards** must be provided for permanent use and shall be:
 - Constructed of steel pipe, not less than 4 inches in diameter and filled with concrete.
 - Spaced not more than 4 feet between posts on center,
 - Set not less than 3 feet deep in a concrete footing, not less than 15-inches diameter.
 - Set with the top of post not less than 3 feet above ground, located not less than 3 feet from the tank.
8. Each site shall be inspected, after cage/tank is installed and all required safeguards are in place,
9. Where fuel dispensers are present, cage(s) shall not be less than twenty (20) feet from dispensers with surface grading away from cage.
2009 IFC 3809.12
10. Cages shall be constructed of metal in a manner which allows for complete ventilation (i.e., "expanded" metal) and shall have the ability to be locked. **NFPA 58 8.4.2.1**

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11. Separation distances shall be determined by the aggregate quantity of propane. See **IFC Table 3809.12**.
12. Storage within a building, on a single floor, shall not exceed 300 pounds unless separated by a distance of 300 feet. **2009 IFC 3809.10**
13. At cylinder exchange sites, attendants shall be the only personnel to remove/replace cylinders in cages. Patrons are not permitted to exchange cylinders. **NFPA 58 7.2.2.1**
14. All cylinders, empty or full, shall have a POL plug in place when not in use. **NFPA 58**
15. Each LPG supplier shall provide emergency phone numbers of company representatives to respond to LPG emergencies 24 hours a day, 365 days a year. This list shall be kept current at all times. **NFPA 58**
16. LPG suppliers shall provide employees of each outlet with approved training regarding the physical characteristics of LPG, the dangers of LPG, and emergency procedures in the event of a fire or release. **NFPA 58**
17. Each outlet shall have a list of trained employees available for inspection by the Fire Department. **2009 IFC 301/ Denver Amendments**
18. A copy of the "Emergency Procedures" shall be posted in a conspicuous location. **NFPA 58 Chapter 14**
20. Transport of LPG containers shall comply with all pertinent DOT, Code of Federal Regulation (CFR) 49, State of Colorado regulations, and City and County of Denver ordinance.

END OF DOCUMENT

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**APPLICATION FOR PERMIT
TANK/CAGE INSTALLATION-LPG**

The following must be attached: *Tank/Cage Installation plot plan*

Name (Firm, corporation, individual)	Application Date
Street Address (where cages are installed)	Phone Fax
Installer/ Contact name	Phone Fax
Installer Address City, State, Zip	Phone Fax
Number of Cages	Slots Per Cage
DATE OF INSTALLATION & ANY ADDITIONAL INFORMATION	

I have read and understand the **Denver Fire Department Guideline For Tank/Cage Installation(s). Refer to Section IV. General Requirements. Tank/Cage installations must be in compliance with NFPA 58 and the International Fire Code. Business owners are ultimately responsible for continued compliance.**

Print Name: _____

Signature: _____

Date: _____

