

# **Temporary LPG Heat for Construction Sites Information Packet**



**Colorado Springs Fire Department  
Division of the Fire Marshal**

**February 2014**

## TEMPORARY LPG HEAT

The CSFD Office of the Fire Marshal has developed this packet in order to assist propane contractors with LPG-fueled temporary heating assemblies for a construction site.

The fees for this permit and inspection shall be assessed in accordance with the CSFD Permit Fee Schedule and the permit/inspection fees shall be due upon receipt of the permit.

## PERMIT APPLICATION

Any application for a Temporary LPG Heat shall be filled out in its entirety and shall be accompanied by a detailed site plan showing:

- 1) Location and legal identification (address and lot or parcel number)
- 2) Legal boundaries of the site, including reference to source or survey.
- 3) Location of significant buildings on the lot or site and adjacent lots or sites. Declare separation distances in feet.
- 4) Location of nearest public roadways and site access. Id Declare separation distances in feet.
- 5) North arrow.
- 6) Topographical features; declare separation distances to exposures or hazards in feet.
- 7) Proposed container location with respect to buildings, building openings, lot lines, public roadways, and underground or overhead utilities; appliances or equipment, ignition sources, declare separation distances in feet.
- 8) Container dimensions and capacity;
- 9) Container compliance markings, (ASME, DOTn, API)
- 10) Details of container foundation and supports.
- 11) Section through container showing supports and anchors and, if underground tank, backfill and corrosion protection.
- 12) Arrangement of valves and piping, identify emergency shut off locations
- 13) Specifications for containers, valves, piping, tank mounts and pads and other related equipment and application; if temporary LPG for heating appliances for construction sites-- heating appliance specifications, manufacturer, supplier-installer, qualifications. Provide specifications/cut sheets on heating units, the number and their location/placement within building or on property.
- 14) Means for protecting valves from tampering.
- 15) Name, address and telephone number of installer and servicing contractor; and emergency contact number and names for owner and LP Gas supplier contractor.
- 16) A Scope of work; (i.e. use for temporary heat)
- 17) REQUIRED. Qualifications of installer/attendants. Provide copies: Certified Employee Training Program (CERT) by the National Propane Gas Association. Certification shall be readily available to the Fire Inspector at the time of Inspection.
- 18) Declare anticipated dates of use (duration) and removal.
- 19) Fire protection and prevention measures to be implemented or on site: standpipes, water supply, fire extinguishers, firewatch, site security, Fire Department access, etc. Identify items on site map.
- 20) Attach forms: Contractor Permit Application, Installer and Client Certification of Compliance form, Installation and Client Declaration form.

## **A COPY OF THIS APPLICATION FORM SHALL REMAIN ON SITE WITH THE PERMIT**

### **INSTALLATION**

No temporary LPG-fueled heating assembly with a tank in excess of the exempt size requiring a permit in accordance with the 2009 *International Fire Code*, as Amended by the City of Colorado Springs shall be installed without first obtaining a permit (125 gallons water capacity).

All LPG-fueled heating appliances and assemblies shall be installed in accordance with all applicable provisions of the 2009 *International Fire Code*, as Amended by the City of Colorado Springs as well as all applicable provisions of NFPA 58, *Liquefied Petroleum Gas Code*.

The LPG tank(s) installed for temporary heat at a construction site may not exceed 2,000 gallons (water capacity) for an aggregate of tanks. Additional tanks shall require prior approval and review by the CSFD. For the purposes of this permit only, the CSFD defines a “site” as a single street address.

### **INTERIOR USE**

The installation of LPG containers may be installed indoors, only if in accordance with the following provisions of the 2009 *International Fire Code*, as amended by the City of Colorado Springs and NFPA 58, *Liquefied Petroleum Gas Code* current edition.

- Limited to conditions where indoor use is necessary and locating cylinders outdoors is impractical (subject to the discretion of the CSFD (NFPA 58).
- Containers shall be specifically allowed for indoor use (NFPA 58).
- 125 gallons water capacity (530 lb.) single container or aggregate of all containers, maximum (NFPA 58).
- LP-Gas containers shall NOT be used in a basement, pit or similar location where heavier-than-air gas might collect. Shall not be used in an above-grade under floor area unless provided with an approved means of ventilation (subject to the discretion of the CSFD (2009 IFC).

### **INSPECTION**

Upon receipt of application approval, the installation contractor shall schedule a code compliance inspection through the CSFD Office of the Fire Marshal for the installed assembly and use site. This inspection shall be **scheduled prior to filling any tank**. The site and assembly will be inspected to insure that the installation and use of equipment is in accordance with all applicable provisions of the 2009 *International Fire Code*, as amended by the City of Colorado Springs and NFPA 58, *Liquefied Petroleum Gas Code* current edition.

## REINSPECTIONS

If, upon inspection, the CSFD Inspector identifies any issues that do not conform to all applicable provisions of the 2009 *International Fire Code*, as amended by the City of Colorado Springs and NFPA 58, *Liquefied Petroleum Gas Code* that cannot be immediately corrected, a **Cease and Desist Order Notice** will be issued by the Inspector for the use of the temporary heat operation at the site. A re-inspection will be required and a **re-inspection fee** will be assessed in accordance with the CSFD Fee Schedule. The Cease and Desist Order Notice will remain effective until relieved by the Inspector after a successful re-inspection.

## INSTALLATION AND USE DECLARATION

I have read and understand the above installation and use requirements, and with my signature guarantee no changes will be made after the Fire Inspector's inspection. I understand that all applicable provisions of the 2009 *International Fire Code*, as amended by the City of Colorado Springs and NFPA 58, *Liquefied Petroleum Gas Code* current edition, apply.

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Installer's Representative (Printed)

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Company Name

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Installer's Representative (Signature)

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Date

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User's Representative (Printed)

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Company Name

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User's Representative (Signature)

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Date



**Colorado Springs Fire Department  
TEMPORARY LPG HEAT  
CONTRACTOR PERMIT APPLICATION**



**CLIENT INFORMATION**

Business Name: \_\_\_\_\_ Daytime Phone: \_\_\_\_\_  
 Business Address: \_\_\_\_\_ After-hours Phone: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ Fax Number: \_\_\_\_\_

**INSTALLER INFORMATION**

Business Name: \_\_\_\_\_ Daytime Phone: \_\_\_\_\_  
 Business Address: \_\_\_\_\_ After-hours Phone: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ Fax Number \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ After-hours Phone: \_\_\_\_\_

**TEMPORARY LPG HEAT INSTALLATION LOCATION INFORMATION**

Business Name: \_\_\_\_\_  
 Installation Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Location on Property: \_\_\_\_\_  
 Number of Tanks: \_\_\_\_\_  
 Size of Tanks \_\_\_\_\_  
 Tank Serial Numbers \_\_\_\_\_

Date(s) planned for Temp LPG Heat **Installation:** \_\_\_\_\_  
 Date(s) planned for Temp LPG Heat **Use:** \_\_\_\_\_  
 Date(s) planned for Temp LPG Heat **Removal:** \_\_\_\_\_

**For Office Use Only**

Date: \_\_\_\_\_ Permit #(s) \_\_\_\_\_  
 Permit Fee \_\_\_\_\_ Receipt # \_\_\_\_\_  
 Plan Review No: \_\_\_\_\_



# SITE MAP

|    |  | A | B | C | D | E | F | G | H | I | J | K | L | M | N |  |    |
|----|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| 1  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 1  |
| 2  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 2  |
| 3  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 3  |
| 4  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 4  |
| 5  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 5  |
| 6  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 6  |
| 7  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 7  |
| 8  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 8  |
| 9  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 9  |
| 10 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 10 |
| 11 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 11 |
| 12 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 12 |
| 13 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 13 |
| 14 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 14 |
| 15 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 15 |
| 16 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 16 |
| 17 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 17 |
|    |  | A | B | C | D | E | F | G | H | I | J | K | L | M | N |  |    |

|           |                     |
|-----------|---------------------|
| BUSINESS: | DATE:               |
| ADDRESS:  | PAGE _____ OF _____ |

## SYSTEM SETUP AND DAILY CHECKLIST

| YES                      | Item to Verify  | NO                       | Corrective Action   |
|--------------------------|---|--------------------------|---|
| <input type="checkbox"/> | Indoor tanks (if necessary) do not exceed 525lb / 125 gallon water capacity.  | <input type="checkbox"/> | Move tank outside to appropriate location in accordance with code-required clearances.                          |
| <input type="checkbox"/> | Indoor tanks are not within 6 feet of a heating appliance.  | <input type="checkbox"/> | Move cylinder more than 6 feet away from heating appliance.   |
| <input type="checkbox"/> | Forced-air or radiant heating appliances are not directed toward a tank within 20 feet.   | <input type="checkbox"/> | Move cylinder more than 20 feet from appliance.   |
| <input type="checkbox"/> | Tank is not located in a basement or pit.   | <input type="checkbox"/> | Move tank to an above-grade location.   |
| <input type="checkbox"/> | Outdoor tank does not exceed 4500 lb / 1000 gal water capacity.   | <input type="checkbox"/> | Remove tank and replace with tank of less than 4500 lb / 1000 gal water capacity.                               |
| <input type="checkbox"/> | Outdoor tanks up to 500 gal water capacity are at least 10 feet from buildings, property lines and/or vehicular traffic.  | <input type="checkbox"/> | Move tank to a proper location.   |
| <input type="checkbox"/> | Outdoor tanks to 501-1000 gal water capacity are at least 25 feet from buildings, property lines and/or vehicular traffic.  | <input type="checkbox"/> | Move tank to a proper location.   |
| <input type="checkbox"/> | All tanks are farther than 6' away from a vertical plane below overhead electrical lines.   | <input type="checkbox"/> | Move tank outside of a 6' distance from below electrical lines (applicable when lines carry greater than 600V). |
| <input type="checkbox"/> | Proper required "No Smoking / No Open Flame" and NFPA 704 placards installed on, or in the immediate vicinity of tanks.   | <input type="checkbox"/> | Place signage.  |
| <input type="checkbox"/> | Weeds, grass, brush, trash, other combustibles kept a minimum of 10 feet from tank.   | <input type="checkbox"/> | Remove combustibles or relocate tank.   |
| <input type="checkbox"/> | Vehicular protection has been installed around tanks exposed to proximate traffic.  | <input type="checkbox"/> | Install vehicular protection or relocate tank.  |
| <input type="checkbox"/> | Tank shows no signs of denting, bulging, Gouging or corrosion.  | <input type="checkbox"/> | Replace tank.   |
| <input type="checkbox"/> | Hose is continuously marked "LP-GAS, PROPANE, 350 PSI WORKING PRESSURE.   | <input type="checkbox"/> | Replace with proper hose.   |
| <input type="checkbox"/> | Portable heaters are equipped with an operational automatic shutoff device.   | <input type="checkbox"/> | Replace heater.   |
| <input type="checkbox"/> | Portable heater is self supporting or cylinder-mounted.   | <input type="checkbox"/> | Replace heater.   |
| <input type="checkbox"/> | Aboveground piping is supported and protected against physical damage (shielded or in a conduit).   | <input type="checkbox"/> | Properly support and protect.   |
| <input type="checkbox"/> | Buried piping is below a minimum of 12-inches of cover.   | <input type="checkbox"/> | Properly bury.  |
| <input type="checkbox"/> | Approved fire extinguisher(s) provided that contain a minimum of 18 pounds of dry chemical.<br>Minimum Rating: 80-B:C Dist.: 10-50 ft.<br>Minimum Rating: 40-B:C Dist.: 10-30 ft. | <input type="checkbox"/> | Obtain & place proper extinguisher.   |
| <input type="checkbox"/> | At least 2 individuals, properly instructed and trained to perform shutdown of propane equipment and tanks in the event or an emergency are present on this site.                 | <input type="checkbox"/> | Obtain proper instruction and training from Installer.  |

Inspection Performed by: \_\_\_\_\_ Date: \_\_\_\_\_