

# **Temporary LPG Heat for Construction Sites Work At Risk and Inspection Information Packet**



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

**December 2013**

## TEMPORARY LPG HEAT

The CSFD Office of the Fire Marshal has implemented a “Temporary LPG Heat- Work At Risk” program in order to assist propane contractors with facilitating an efficient response to a client that requests an LPG-fueled temporary heating assembly for a construction site on short notice. This program allows a propane contractor to obtain a Work At Risk Permit to install such an assembly upon receipt of the permit without the need to wait for a CSFD OFM inspection of the assembly and site prior to use. 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. ***The permit shall be applied for, paid for and obtained (and the inspection scheduled) the next business day following installation.*** This program is subject to the provisions as outlined in this packet.

## PERMIT APPLICATION

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

- The installed location of the LPG tank, including distances with respect to structures, public ways, property lines and overhead utilities.
- A declaration of the size of the tank (in gallons of water capacity, 1000 gallon max, one tank max) and the heat release rate of the appliance that it fuels (in btu/hr).
- The location of the appliance being fueled as well as any associated valving, piping, and/or gas lines.
- The building intended to be heated and the location/size of the nearest required fire extinguisher.
- Any/all associated vehicular protection devices around the tank as well as any protective device installed to protect gas piping and/or lines.
- The permit application shall be submitted and fees paid on the business day following installation. Failure to obtain the permit, pay the required fees and schedule the inspection on this day will be considered as ‘Work Without A Permit’ and fees shall be assessed as such in accordance with the CSFD Fee Schedule.
- See section “Work Without a ‘Work At Risk’ Permit” at the end of this packet for further penalties regarding all situations deemed as ‘Work Without A 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*.

## INSTALLATION (Cont.)

The LPG tank(s) installed for temporary heat at a construction site under a Work At Risk Permit may not exceed 1000 gallons (water capacity) for a single tank or 1000 gallons total (water capacity) for an aggregate of tanks regardless of the number of heat-producing devices used on the site. For the purposes of this permit only, the CSFD defines a “site” as a single street address. Should the installation contractor require an LPG tank in excess of 1000 gallons (water capacity) the contractor shall be subject to normal permit application, plan review and inspection processes.

## 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*:

- Limited to conditions where indoor use is necessary and locating cylinders outdoors is impractical (subject to the discretion of the CSFD Inspector) (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 underfloor area unless provided with an approved means of ventilation (subject to the discretion of the CSFD Inspector).

## INSPECTION

Upon receipt of the Work At Risk Permit, 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 for a time during the period declared for use on the permit application. 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*.

## 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.

## MORE THAN TWO REINSPECTIONS IN A CALENDAR YEAR

Should any contractor receive more than two Cease and Desist Order Notices for temporary LPG heat installations installed under a Work at Risk permit during a single calendar year, that contractor will not be granted another Temporary LPG Heat- Work At Risk permit until the next calendar year. Any further LPG installations by that contractor that will utilize 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 will be subject to normal application, review, inspection and permit procedures.

## WORK WITHOUT A 'WORK AT RISK' PERMIT

Should any contractor be found to have installed any LPG-fired temporary heat 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, without a permit, that contractor will not be granted a Temporary LPG Heat- Work At Risk permit until the next calendar year. Any further LPG installations by that contractor which utilize 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 will be subject to normal application, review, inspection and permit procedures.

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* 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 – WORK AT RISK  
CONTRACTOR PERMIT APPLICATION**



**USER 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 # \_\_\_\_\_

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



# SITE MAP

		A	B	C	D	E	F	G	H	I	J	K	L	M	N		
1																	1
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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. Minimum Rating: 80-B:C Dist.: 10-50 ft. 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: \_\_\_\_\_