

<i>HEALTH AND SAFETY MANUAL</i>	
Title: Temporary Heating Devices	
Approved by: Greg Savoy	Rev. 1/1/08

1 Purpose/Scope:

The purpose of this program is to ensure the safety of all employees, and contractors working for The Company, while using temporary heating devices.

This program covers all employees and other workers that may be involved in the use of a Temporary Heating device. When work is performed on a non-owned or operated site, the operator's program shall take precedence, however, this document covers Company employees and contractors and shall be used on owned premises, or when an operator's program doesn't exist or is less stringent.

2 Responsibilities:

2.1 Responsibilities:

2.1.1 Manager/ Supervisor:

- Approve any Temporary Heating Device to be used in the field or shop.
- Ensure that a safe environment has been secured, and that there is no flammable gas or vapors present.
- Ensure that all employees are knowledgeable and understand all safety precautions and operating instructions.

2.1.2 Employees are required to follow procedures outlined for temporary heating devices.

3 Requirements:

3.1 Work Site Preparations

3.1.1 Work site and or buildings shall be free of any flammable gas or vapors, or any places with a risk of fire or explosions.

3.1.2 All portable heaters shall be approved by the supervisor. Portable electric heaters shall have tip-over protection that automatically shuts off the unit when it is tipped over. There shall be adequate clearance between the heater

and combustible furnishings or other materials at all times. Portable heaters are not permitted in office buildings.

3.1.3 Know the location of and how to use the nearest portable fire extinguisher with the correct rating for appropriate class of fire.

3.2 Safety Precautions:

3.2.1 No open flame heater shall be allowed on a field location or in shops where there is the presence or suspected presence of gas or other flammables.

3.2.2 A forced air, water heated heater or a radiant heater should be utilized as the heaters of preference.

3.2.3 Where an outside fuel supply is used, the lines and connections shall be traced and inspected with a gas detector.

3.2.4 Inspect the heater thoroughly for damage. Heaters that are damaged and are in need of repairs shall not be placed into service until needed repairs are made.

3.2.5 Heater shall not be modified without manufacturer's approval. Do not operate a heater that has been modified and not approved.

3.2.6 Read the manufacturer's equipment instructions, and have a full understanding of the safety and operations instructions for the heater.

3.2.7 All heaters shall have a thermostat installed to regulate the heat and turn the heater off at a desired temperature setting.

Safety distances must be maintained from any material or persons.

✓ Side: 2 ft.

✓ Floor: 0 ft.

✓ Hot air outlet: 10 ft.

✓ Top: 5ft.

✓ Air inlet: 2 ft.

3.2.8 Check wiring in hazardous locations where the risk of fire is especially high.

3.3 Fueling of Portable Heaters:

3.3.1 Only fuel recommended by the manufacturer shall be used.

3.3.2 Heater unit shall be turned off and cooled down before refueling.

3.3.3 If inside of a building, heater shall be removed from the inside of the building to be refueled.

3.3.4 Make sure that the heater is level and do not overfill.

- 3.3.5 If heater is overfilled, clean up spilled fuel and let heater dry off completely before restarting.
- 3.3.6 Heaters, when in use, shall be set horizontally level, unless otherwise permitted by the manufacturer.

3.4 Ventilation:

- 3.4.1 Fresh air shall be supplied in sufficient quantities to maintain the health and safety of workers. Where natural means of fresh air supply is inadequate, mechanical ventilation shall be provided.
- 3.4.2 When heaters are used in confined spaces, special care shall be taken to provide sufficient ventilation in order to ensure proper combustion, maintain the health and safety of workers, and limit temperature rise in the area.

3.5 Clearance and mounting:

- 3.5.1 Temporary heating devices shall be installed to provide clearance to combustible material not less than the amount shown in Table A.

Table A:

Heating Appliances	Minimum Clearance, (inches)		
	Sides	Rear	Chimney Connector
Room heater, circulating type	12	12	18
Room heater, radiant type	36	36	18

- 3.5.1 Heaters not suitable for use on wood floors shall not be set directly upon them or other combustible materials. When such heaters are used, they shall rest on suitable heat insulating material or at least 1-inch concrete, or equivalent. The insulating material shall extend beyond the heater 2 feet or more in all directions.
- 3.5.2 Heaters used in the vicinity of combustible tarpaulins, canvas, or similar coverings shall be located at least 10 feet from the coverings. The coverings shall be securely fastened to prevent ignition or upsetting of the heater due to wind action on the covering or other material.

3.6 Oil-fired heaters:

- 3.6.1 Flammable liquid-fired heaters shall be equipped with a primary safety control to stop the flow of fuel in the event of flame failure. Barometric or gravity oil feed shall not be considered a primary safety control.

3.7 Inspections:

3.7.1 Temporary heaters shall be inspected before each use.

3.7.2 A qualified person shall inspect heaters annually.

3.8 Operations:

3.8.1 When Temporary Heating Device is operating properly:

- The flame is contained within the heater.
- The flame is essentially blue with perhaps some yellow tipping.
- There is no strong disagreeable odor, eye burning or other physical discomfort.
- There is no smoke or soot internal or external to the heater.
- There are no unplanned or unexplained shut downs of the heater.

3.9 Use of Vehicle Exhaust:

3.9.1 Vehicle exhaust is permitted for use as a temporary heating device when the following precautions have been taken:

- A hot work permit has been issued.
- Continuous monitoring for flammable gases and carbon monoxide must be conducted when using exhaust in an enclosure or other walled space.

4 References:

29 CFR 1926.154, Temporary Heating Devices.

5 Exhibits:

None.