

Revision No 3	01/2005	Page 1 of 2
<b>Kennecott Utah Copper Corporation Safety and Health Standards</b>		<b>Standard No.: 16.19 Temporary Heating Equipment</b>

16.19.1      **PURPOSE**

16.19.1.1      The purpose of this standard is to ensure that temporary heaters are used without the potential of injury to employees or damage to property or equipment.

16.19.2      **REQUIREMENTS**

16.19.2.1      Open fires of any type are generally prohibited. In circumstances where an open fire is required, a permit from both the Safety and Environmental Departments must be obtained.

16.19.2.2      All areas where fuel-fired heating equipment is in use must be properly ventilated.

16.19.2.3      Prior to use, heaters must be inspected to ensure that they are in good condition. Any heater that has been damaged or shows wear that could impact its performance must be removed from service.

16.19.2.4      Fuel type heaters must be equipped with an automatic shut-off device in the event of loss of flame. Manufacturer's instructions shall be reviewed prior to fueling a heater. Only the type of fuel specified for the unit shall be used.

16.19.2.5      Heaters must be placed on a clean level surface, and be located at least 10 feet from any combustible material. Heaters shall be located a minimum of 25 feet from any fuel tanks or flammable storage tanks.

16.19.2.6      The use of liquid or gas burning salamander type heaters is prohibited inside buildings and other structures including confined spaces.

16.19.2.7      For all natural gas fueled heaters - piping, tubing or hose must be leak-tested after assembly by use of soapsuds or other non-combustible means. In addition, all hoses must be checked to ensure that they are suitable for natural gas service.

- Before disconnecting a heater; shut off the fuel supply in order to purge the line.

16.19.2.8      When using liquefied petroleum gas (LP-Gas) heaters, only use hoses labeled "LP-Gas" or "LPG". All precautions outlined for natural gas fuel heaters relating to inspections, testing, operating, and leak detection shall be followed. Heaters shall be equipped with an approved regulator in the supply line between the fuel cylinder and the heater unit. Cylinder connectors shall be provided with an excess flow valve to minimize flow in the event of a fuel line rupture.

References:					
Signatures					
Original signed by:		Original signed by:		Original signed by:	
Frank Klobchar	2/04/05	Chris Crowl	2/07/05	Bill Champion	2/08/05
Standards Committee Chairman	Date	Vice President Human Resources	Date	President, KUCC	Date

- Blower type or radiant heaters shall not be directed towards any LP-Gas container within 25 feet.
- If two or more heaters are located in an un-partitioned area, the fuel supply containers must be separated by at least 25 feet.
- LP-Gas cylinders shall not be refilled inside buildings or structures. Cylinders shall be stored outside of buildings, on a solid surface, away from vehicular traffic.