

## APPENDIX E

### Field/Tent Heaters Safety Guidelines

#### E-1. Portable Radiant-Type Space/Tent Heaters(IAW FORSCOM Reg. 385-1 ch5)

1. Fire can engulf a tent in 10 seconds and destroy it in 60 seconds, giving soldiers very little time to react. Conversely, carbon monoxide is odorless, tasteless, and can kill soldiers while they are sleeping. While commercial off-the-shelf (COTS) heaters and stoves may seem to be a good solution for heating problems in the field, soldiers must be trained on proper procedures before using a piece of COTS equipment. In addition no COTS heaters on the market meet Army requirements for field environments. Standard military heaters, on the other hand, are designed to vent combustion fumes to the outside, are tested for safe field use, and should be used in the place of COTS heaters.
2. The following are heaters that are approved for Army use:
  - a) **H-45 Space Heater (NSN 4520-01-329-3451):** The H-45 replaces the old potbelly M-1941. Designed to heat general purpose and TEMPER tents, the H-45 burns liquid and solid fuels.
  - b) **Arctic space heater (NSN 4520-01-444-2375):** The Arctic heater replaces the gasoline-burning M-1950 Yukon heater and is a lightweight, portable heater for 5-man and 10-man aortic tents. The Arctic heater burns liquid and solid fuels.
  - c) **Small space heater (NSN 4520-01-431-8927):** The small space heater is ideal for use in small tents such as 4-man soldier/crew tent. It burns liquid fuel and has a built-in tank, so no fuel can or stand is required.
  - d) **Convective space heater (NSN 4520-01-431-8927):** The convective space heater provides forced hot air for tents and shelters; this heater generates its own power and recharges its battery.
  - e) **Thermoelectric fan (NSN 4520-01-457-2790):** The thermoelectric fan is a compact, self-powered unit that fits on top of any military tent heater. The fan uses some of the heat to turn the fan blades, which circulate heated air, improve comfort and save fuel.
3. Operation of authorized heaters:
  - a) Operate all heaters and stoves in accordance with the applicable technical manual. There will be a proper fire extinguisher for every heater in operation. Fuel cans will be located outside the tent as far away as the fuel lines will allow. Gasoline will never be used in any heater for any reason.
  - b) Heating shelters at night requires that a **soldier in each shelter be on duty as fireguard all times when other soldiers are sleeping in the tent.** In the event of

a tent fire or suspected presence of carbon monoxide, the first and most important task is to evacuate the tent. In a tent fire, there are no seconds to spare.

**E-2. Immersion Heaters:** Will be operated by licensed persons and IAW TM 5-4540-202-12&P and TM 10-4500-200-13.

**E-3. Unauthorized kerosene heaters are prohibited.**

**E-4.** All soldiers should be made aware of the symptoms of carbon monoxide poisoning. See GTA 08-05-062