



REPLY TO
ATTENTION OF

APVR-RDL

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY ALASKA
600 RICHARDSON DRIVE # 5000
FORT RICHARDSON, ALASKA 99505-5000

05 APR 2004

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Standard for Winterization Devices on Engine Driven Equipment (CG/CoS Policy # 0-42)

1. Purpose: The purpose of this memorandum is to outline the standard for installed winterization devices on engine driven equipment in USARAK units.
2. References: None
3. Scope: This policy letter applies to all engine driven equipment not stored in heated areas (i.e., power generation, decon, etc.), assigned to USARAK units.
4. At a minimum, the following devices are the standard for equipment in Alaska.
 - a. Engine Coolant Heater: This device will be a permanently installed engine coolant heater capable of heating and circulating engine coolant throughout the engine at temperatures to -50F. It will be electrically powered by the onboard vehicular direct current battery system and will draw the required fuel from the vehicular fuel system. At temperatures to -50F, the heater will be capable of adequately heating an engine in 1 hour or less to allow start up.
 - b. Engine Block Heater: This heater will be a permanently installed (120V AC) electrical device that draws no more than 15 amps. It will also be capable of maintaining engine coolant temperature at 80F above ambient temperature.
 - c. Battery Trickle Charger: This charger will be a permanently installed (120V AC) battery maintenance device which will remain connected to the batteries at all times. This device will not draw more than 5 amps, it will have a minimum output of 6 amps, and have the capability of maintaining both lead acid and AAGM batteries in a state of full charge to temperatures of -50F.
 - d. Hydraulic Fluid Heater: A "liquid-to-liquid" type heater exchanger will be installed in externally mounted hydraulic tanks on all wreckers and cranes. This heat exchanger will be mounted as near to the in-tank pickup tube as possible, without interfering with the normal operation of the system. Heated coolant for this device will be provided by the permanently mounted direct current powered engine coolant heater.

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e. Each electrical device will have an electrical cord with a polarity protected, grounded male connector. Multiple electrical devices will be connected so that only one connector (120V polarity protected, grounded male) will extend from the vehicle/equipment.

5. POC is Robin Thompson, Equipment Specialist, DOL, 384-2420.

FOR THE COMMANDER:



DAVID A. WOOD
COL, GS
Chief of Staff

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