



DEPARTMENT OF THE ARMY
UNITED STATES ARMY GARRISON KAISERSLAUTERN
UNIT 23152
APO AE 09227-3152

REPLY TO
ATTENTION OF

IMKA-ZA

04 SEP 2012

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: United States Army Garrison Kaiserslautern (USAG-K) Command Policy Memorandum #48, Heating and Air Conditioning

1. References:

- a. Energy Independence and Security Act (EISA) of 2007, 19 December 2007.
- b. Energy Policy Act of 2005, 8 August 2005.
- c. Executive Order 13423, Strengthening Federal Environmental, Energy, and Transportation Management, 24 January 2007.
- d. Executive Order 13514 Federal Leadership in Environmental, Energy, and Economic Performance, 5 October 2009.
- e. UFC 3-410-01FA, Heating, Ventilation, and Air Conditioning with Change 4, 15 May 2003.
- f. AR 420-1, Army Facilities Management, 12 February 2008 (RAR 001, 28 March 2009).
- g. Army Energy and Water Campaign Plan for Installations, 1 December 2007.
- h. Army Energy Security Implementation Strategy (AESIS), 13 January 2009.

2. Purpose. To emphasize energy saving measures which can be controlled by Garrison Soldiers, civilians, family members, employees, contractors, and all Department of Defense (DoD) and non-DoD organizations, activities, agencies, and tenants without decreasing comfort, safety, health, and quality of life standards.

3. Applicability. This policy applies to all permanent and transient parties occupying any facilities within the area of responsibility of the USAG Kaiserslautern.

4. Policy.

- a. AR 420-1, Army Facilities Management states that energy resources for cooling and heating in government-owned and government-leased space will be intensively managed,

IMKA-ZA

SUBJECT: United States Army Garrison Kaiserslautern (USAG-K) Command Policy Memorandum #48, Heating and Air Conditioning

carefully controlled, and monitored to ensure their efficient and effective use in support of mission requirements.

b. The Army Energy Conservation Policy and AR 420-1, Chapter 22, para 22-12b(2) state that operation of portable cooling devices is prohibited where the intent is to circumvent the cooling standards as outlined below.

c. DoD Unified Facilities Criteria, UFC 3-410-01FA, Heating, Ventilation, and Air Conditioning, provides criteria for DoD facilities worldwide that are eligible to be provided air conditioning (A/C) depending on the local climatic conditions and weather history. Administrative areas will be air conditioned only in locations where the dry bulb temperature is 80⁰ F (26.7⁰ C) or higher for over 350 hours per year. For non-administrative areas such as fire station, military family housing, unaccompanied enlisted/officer personnel housing, temporary lodging facilities, auditoriums and theaters, banks, bowling alleys, chapels, daycare centers, schools, libraries, stores and exchanges, clubs and dining facilities, post offices, indoor target ranges, approval is given where dry bulb temperature is 80⁰ F (26.7⁰ C) or higher for over 650 hours per year.

d. Based on historical ambient weather data for Kaiserslautern, the DoD UFC criteria for providing air conditioning is not met because the annual hours in excess of 80⁰ F dry bulb temperature at USAG Kaiserslautern do not exceed 350 and 650 hours respectively. Therefore, most facilities at Kaiserslautern do not qualify for air conditioning.

e. Exceptions to paragraphs 4c and 4d above may be approved by the garrison commander only. Requests for exception to this policy must be submitted to the USAG-K Directorate of Public Works (DPW) in memorandum format.

f. Wherever mechanical cooling or A/C is authorized in Kaiserslautern, the space cooling temperatures shall be maintained as per UFC 3-410-01FA.

g. Comfort mechanical systems will be designed, installed, and protected according to ASHRAE handbook. A goal of achieving an indoor temperature of 78⁰ F (25.5⁰ C) 90 percent of the time should be used. The indoor specific humidity will not exceed the outdoor specific humidity; otherwise, the indoor relative humidity will be 50 percent. The indoor temperature provided by evaporative cooling or comfort mechanical ventilation will be 80⁰ F (27⁰ C); the above requirements for specific humidity do not apply where evaporative cooling is used.

h. During the times while working and living space is not occupied, temperature limits can go up to 85⁰ F (29.4⁰ C).

i. Space temperatures for medical, dental, and medical research operations will comply with these standards unless exempted by UFC 4-501-01.

IMKA-ZA

SUBJECT: United States Army Garrison Kaiserslautern (USAG-K) Command Policy
Memorandum #48, Heating and Air Conditioning

j. All facility air conditioning systems must be controlled and managed by the DPW Utilities and Energy Management and Control System (UEMCS) to ensure that heating systems are turned off while cooling systems are operating and that cooling systems are turned off while the facility heating systems are functioning. Time frames for UEMCS night setback and unoccupied periods will be coordinated with DPW and will be defined based on the individual usage of each facility.

k. Requests for non-comfort cooling such as for technical reasons (e.g. to ensure proper functioning of computerized or electronic equipment) must be submitted to the DPW for assessment and approval. Customers must prove the necessity by documenting the operational conditions of the equipment. A/C for technical purposes will be limited to those equipment rooms only.

l. Usage of A/C units or systems, regardless of funding and supply source, is prohibited unless criteria listed in this policy are met. Any installation of an A/C unit must begin with the submission of a work order (DA Form 4283) to DPW. Organizations or units wishing to accomplish A/C installation through means other than the DPW shall proceed as follows: submit DA Form 4283; design project IAW all applicable regulations and given DPW standards; submit design for review and incorporate any DPW design comments; get final project approval from DPW; invite DPW representatives to all pre-final and final project inspections, and meet the DPW construction quality standards. Submit project as-built and maintenance manuals, and submit DD Form 1354 for transfer of real property to garrison.

m. All A/C system projects and designs must comply with applicable DoD, host nation, and local force protection, fire, technical, and energy regulations.

n. Operation of heating facilities. All heating equipment will be controlled by the DPW and will be off-limits to all other personnel. No date will be established for the starting and cessation of the heating season; ordinarily, the heating season does not begin before 1 September nor end earlier than 15 May. Domestic hot water will be provided at all times. All buildings are equipped with outside temperature control devices. If the outside temperature drops below 60⁰ F (16⁰ C), heat will be restored to the facility automatically.

o. Prevention of damage by freezing.

(1) Prevention of damage to government property is a command responsibility. Commanders will ensure that all necessary actions are taken to prevent damage to contents of a building or to heating and plumbing equipment under their jurisdiction by freezing, overheating, or improper operation.

(2) When heating equipment becomes inoperative during freezing weather, or when the contents of the building would be damaged by freezing, the individual responsible will immediately telephone the DPW Service Order Desk, DSN 483-7175 or CIV 0631-411-7175, for

IMKA-ZA

SUBJECT: United States Army Garrison Kaiserslautern (USAG-K) Command Policy
Memorandum #48, Heating and Air Conditioning

Kaiserslautern. Request for repairs should describe the circumstances and nature of damage and the exact location. Individuals responsible for buildings, who permit plumbing to freeze through negligence, may be held liable for any resulting damage.

(3) When buildings with installed plumbing are to be unoccupied for a period of 30 days or more during the heating season, commanders will notify DPW to winterize the building.

(4) Responsible commanders, building fire wardens or their designated personnel will ensure that all buildings in which heating equipment is operated are inspected weekly. Daily checks will be accomplished when buildings are not occupied, to quickly detect non-operation of heating equipment.

p. The use and authorization of personal space heaters will be monitored. Per Army regulations, space heaters are not authorized for use, unless approved by Garrison DPW and Fire Department, with supervisor approval. Space heaters are energy hogs and can be dangerous if not used properly. An approved space heater must be UL/FM/VDE approved, contain a tip over switch, and not be set on or near combustible materials. If use of a space heater is approved, electrical extension cords will not be used with the space heater.

5. The proponent for this policy is the USAG-K DPW Operations and Maintenance Division, DSN 483-8122.



LARS N. ZETTERSTROM
LTC, EN
Commanding

DISTRIBUTION: D