



DEPARTMENT OF THE ARMY
ASSISTANT SECRETARY OF THE ARMY
(INSTALLATIONS, ENERGY AND ENVIRONMENT)
110 ARMY PENTAGON
WASHINGTON, DC 20310-0110

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MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Exterior Lighting Technologies Policy

1. References:

- a. Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings, Memorandum of Understanding (MOU), 2006.
- b. Army Energy Security Implementation Strategy, 13 JAN 2009
- c. Energy Independence and Security Act (EISA) of 2007, §321, §322, and §324

2. Purpose: This memorandum sets policy for the use of highly-efficient lighting technologies, such as solid-state lighting (SSL), induction, or plasma in exterior applications at permanent military installations.

3. Applicability: This policy applies to all permanent Active Army installations, Army National Guard and Army Reserve installations, sites, and facilities operated and/or maintained by federal funds in CONUS and OCONUS (hereinafter referred to as installations). Exception: this policy does not apply to Civil Works locations, leased space or contingency bases.

4. Policy:

a. Land Holding Commands, i.e., IMCOM, AMC, ARNG, and USAR will develop and execute plans for their installations to use highly-efficient lighting technologies in all exterior lighting applications where it is life-cycle cost effective. Department of Energy case studies from the Gateway program (http://www1.eere.energy.gov/buildings/ssl/gatewaydemos_results.html) have shown that highly-efficient lighting technologies can deliver significant (50% or more) energy savings, and up to 75% energy savings when paired with lighting controls. Installations must analyze whether or not highly-efficient lighting technologies and controls are cost effective for their specific application. Savings from operations and maintenance activities shall be included when calculating life-cycle costs to ensure savings are captured from technologies with lower maintenance costs.

b. Exterior lighting applications include illumination of buildings, sites, property, structures, gates, signs, roadways, parking lots, pathways, sidewalks, landscapes, etc. All project designs for exterior lighting must consider use of highly-efficient lighting technologies and their associated control systems (motion sensors, timers, photoelectric sensors, etc) regardless of the

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design agency, such as U.S. Army Corps of Engineers, in-house, design-build contractors, energy savings performance contracts, utility energy service contracts.

c. All exterior lighting systems shall have demonstrated adherence to the most current performance requirements developed by the DOE Federal Energy Management Program. Specifically, the FEMP-designated product categories for exterior lighting located at: http://www1.eere.energy.gov/femp/technologies/eep_exterior_lighting.html

d. Exterior lighting technology is changing rapidly and installations are encouraged to use the most current information available upon which to base their analysis. To assist in the selection of the proper application of exterior lighting technologies, installations can draw upon a number of resources on the Internet for determining the appropriateness of highly-efficient lighting technologies, to include:

(1) DOE FEMP SSL website:

http://www1.eere.energy.gov/femp/technologies/solid_state_lighting.html

(2) DOE SSL Program website: <http://www1.eere.energy.gov/buildings/ssl>

(3) DOE Commercial Building Energy Alliances (CBEA) technology specification website:

<http://www1.eere.energy.gov/buildings/alliances/technologies.html>

(4) Whole Building Design Guide, www.wbdg.org

(5) Technology Deployment Matrix, Department of Energy (DOE) Federal Energy Management Program (FEMP):

http://www1.eere.energy.gov/femp/technologies/newtechnologies_matrix.html

(6) Covered Product Categories - Lighting, DOE FEMP:

http://www1.eere.energy.gov/femp/technologies/eep_purchasingspecs.html

(7) LED Lighting Facts[®]: <http://www.lightingfacts.com/>

(8) Lighting Research Center: <http://www.lrc.rpi.edu>

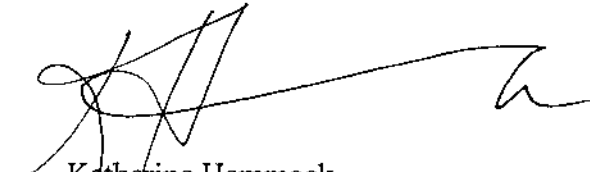
5. The Army does not endorse any particular product or company that may be noted or hyperlinked on any of the above websites. The websites are provided for the sole purpose of providing some locations available to learn about current technological advancements.

6. This policy is effective immediately. Any requests for exception to this policy must be forwarded in writing through the chain of command to the Deputy Assistant Secretary of the Army for Energy and Sustainability for approval.

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7. The point of contact for this policy is Mr. Paul M. Volkman, (703) 697-3765, paul.m.volkman.civ@mail.mil.



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