Subject: Lighting Controls

Applicability: Directive

1. Background: For new construction, energy conservation is accomplished by a combination of design choices, automatic controls and operational procedures of facility occupants. In the lighting discipline, optimal energy conservation is often not being achieved by the existing criteria.

2. Purpose: The purpose of this bulletin is to establish USACE guidelines for automatic lighting controls to improve energy conservation. The object is to provide automatic controls for any light fixture not controlled by operational procedures of the facility occupants. This bulletin is immediate interim guidance for all new Army facility designs for construction or renovation. This information will eventually be incorporated into the Unified Facility Criteria for Lighting, a tri-service publication currently in production.

3. Policy: Through revision 23, 20 May 2003, to TI 800-01, Design Criteria, chapter 10, paragraph 10c(2) has been revised to read as follows:

   (2) Lighting Controls:

   (a) Failure to turn off the lights in certain unoccupied areas of many facilities is an energy conservation problem caused by users feeling no direct “ownership” of these particular areas. All new Army facility designs for construction or renovation must include occupancy sensors for control of lighting in all “non-ownership” areas, including, as a minimum: lavatories, hallways, stairwells, conference rooms and utility rooms. Identification of additional areas requiring automatic control should be coordinated with the user.

   (b) Daylighting, with an automatic dimming to supplement the daylight, is the preferred lighting method when economically justified.

   (c) Time clock or photoelectric control must be used for general outdoor lighting. Coordinate with security requirements.

4. This bulletin has been coordinated with and mandated by HQDA ACSIM.
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