

**INTERPRETATION IC 90.1-2010-23 OF  
ANSI/ASHRAE/IES STANDARD 90.1-2010  
Energy Standard for Buildings Except Low-Rise Residential Buildings**

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**Request from:** Dan Winkel ([Dan.j.winkel@usace.army.mil](mailto:Dan.j.winkel@usace.army.mil)), US Army Corps of Engineers, 601 E 12<sup>th</sup> Street, Kansas City, MO 64106.

**Reference:** This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IES Standard 90.1-2010, Section 8.4.2, relating to automatic receptacle control.

**Background:** Concern with intent and meeting Federal Requirements. Because all (only a few exemptions) our receptacles are required to serve electronic equipment that is required to be connected to a data line or telephone line and be able to be “updated” at any time from remote software updates, it is obvious we meet the 24/7 exemption. To assist in understanding the position, the federal government requires all lighting to be on a sensor or schedule OFF scenario in these areas. No personal space heaters or lighting sources are allowed in these work areas. The federal government requires all computers to enter two stages of reduced energy. Screen saver and “sleep mode” when not in use. If you do not think this is adequate please clarify what loads are intended to be removed from energy consumption so we can meet the intent of this provision.

**Interpretation:** Section 8.4.2 requires 50% or more of our office area receptacles to be automatically removed from the power sources except in Life Safety or the need for 24/7 power.

**Question:** Is this interpretation correct?

**Answer:** No. Please see comments for clarification.

**Comments:** Your interpretation mostly repeats the actual requirement in the standard and is therefore partially correct. However, your background description and the use of the phrase “...need for 24/7 power” in your interpretation do not match the language or intent of the standard. Your background statement that having electronic equipment that needs to be updated at any time obviously meets the 24/7 exemption is incorrect. The 50% receptacle control requirements provide automatic control capability for equipment that is not typically needed or utilized after business hours or during periods when spaces are not occupied. The remaining uncontrolled 50% of the receptacles are available for equipment that may be adversely effected by automatic shutoff such as computers requiring after hours automatic updates.