

**INTERPRETATION IC 90.1-2004-29 OF
ANSI/ASHRAE/IESNA STANDARD 90.1-2004
Energy Standard for Buildings Except Low-Rise Residential Buildings**

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Request from: Joshua Kahan (josh@jhkss.com), JHK Sustainability Solutions, LLC, 1209 Meetinghouse Road, PO Box 124, Gwynedd, PA 19436.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IESNA Standard 90.1-2004, Sections 94.1.1 and 9.4.1.2, regarding interior lighting control.

Background: We have a project that consists of a 6,345 square feet office space that is being built into the corner of an existing warehouse and is attempting a LEED Commercial Interiors certification, where for LEED, the future office space is the extent of the project boundary (no alterations/construction is being undertaken outside the office space project).

Within the office space, all rooms except for the conference rooms and the bathrooms will have an open ceiling, however overhead lights will be hung over each room and in the hallways. The lights within each room will be controlled by individual occupancy sensors (one occupancy sensor per room), and the hallway lights will be controlled via various occupancy sensors hung from the ceiling (4 total hallway sensors). All occupancy sensors (the room wall sensors and the overhead hallway sensors) will be programmed to turn off within 30 minutes of the occupant leaving the space. The lights in the bathrooms and conference rooms will also be connected to occupancy sensors, where the lights in the conference rooms will also be connected to dimmers. So, every light within the space will be connected to an occupancy sensor.

More so, we are not using a standard occupancy sensor. We are using advanced technology; the occupant will not have the ability to override the sensor and turn on the lights. Therefore, when the occupant leaves a room/hallway there is no chance the light can be left on. The occupant cannot turn the lights on at will, only the sensors can turn the lights on.

Interpretation: Our lighting control methods are compliant with the intent of Sections 9.4.1.1 (Automatic Lighting Shutoff) and 9.4.1.2 (Space Control) as stated in ASHRAE/IESNA Standard 90.1-2004, Section 9, Lighting.

Question: Is this interpretation correct?

Answer: Yes

Comments: The system of automatic lighting control as described meets the control requirements of Sections 9.4.1.1 and 9.4.1.2 of 90.1-2004.