ADDENDA

ANSI/ASHRAE/IES Addendum ah to
ANSI/ASHRAE/IES Standard 90.1-2013

Energy Standard for Buildings Except Low-Rise Residential Buildings

Approved by the ASHRAE Standards Committee on January 23, 2016; by the ASHRAE Board of Directors on January 27, 2016; by the IES Board of Directors on December 31, 2015; and by the American National Standards Institute on January 28, 2016.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE website (www.ashrae.org) or in paper form from the Senior Manager of Standards.

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FOREWORD

Many buildings are constructed with dedicated emergency power risers. It has become common practice to have lighting that is connected to these circuits run 24 hours a day. This proposal is intended to ensure that it is clear that all lighting, including night lights, shall be turned off when the space is unoccupied with an allowance for security and safety reasons.

This allowance was determined by multiplying the percentage of floor area expected to have egress lighting (based on the building area dataset used in the calculation of building area LPDs) by 0.1 W/ft^2, which is the value found in Standard 189.1 to be used only for security and egress areas.

Note: In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum ah to 90.1-2013

Modify the standard as follows (IP and SI Units)

9.4.1.1 Interior Lighting Controls…….

……

h. *Automatic full OFF*: All lighting<u>, including lighting connected to emergency circuits,</u> shall be automatically shut off within 20 minutes of all occupants leaving the space. A control device meeting this requirement shall control no more than 5000 ft2.

Exceptions: The following lighting is not required to be automatically shut off:

1. General lighting and task lighting in shop and laboratory classrooms
2. General lighting and task lighting in spaces where automatic shutoff would endanger the safety or security of room or building occupants
3. Lighting required for 24/7 operation
<u>4. Lighting load not exceeding 0.02 W/ft^2 (0.22 W/m^2) multiplied by the gross lighted area of the building</u>

i. Scheduled shutoff: All lighting in the space ~~not exempted by Exception (1) to Section 9.1.1 1~~ <u>including lighting connected to emergency circuits,</u> shall be automatically shut off during periods when the space is scheduled to be unoccupied using…….

…….

Exceptions: The following lighting is not required to be on scheduled shutoff:

1. Lighting in spaces where lighting is required for 24/7 continuous operation
2. Lighting in spaces where patient care is rendered
3. Lighting in spaces where automatic shutoff would endanger the safety or security of the room or building occupants
<u>4. Lighting load not exceeding 0.02 W/ft^2 (0.22 W/m^2) multiplied by the gross lighted area of the building</u>

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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