



# STANDARDS ACTIONS

## PUBLIC REVIEW—CALL FOR COMMENTS

Constructive comments are invited for the following Public Review Drafts, which can be accessed on ASHRAE's website at <https://osr.ashrae.org>. To obtain a paper copy of any Public Review Draft contact ASHRAE, Inc. Attn: Standards Public Review, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305, or via email at: [standards.section@ashrae.org](mailto:standards.section@ashrae.org). Paper copies are \$35.00/copy if 100 pages or less and \$45.00 if over 100 pages.

**30-day Public Review from  
May 10, 2019 to June 9, 2019**

- ♦ **3<sup>rd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *be* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

In reviewing the final draft for publication it was noted that the rating conditions for the return air were listed as dry bulb and wet bulb which is the typical method used for this, but the AHRI 1360 rating standard and the current ASHRAE 90.1 table 6.8.1-11 uses dry bulb and dew point. This ISC is being released to cover the change from wet bulb to dew point in table 6.8.1-11 and 6.8.1-19 in both the IP and SI versions.

- ♦ **3<sup>rd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *bo* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

For the third public review changes are being made to correct references to products in table F-4 to align exactly with the DOE requirements.

- ♦ **3<sup>rd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *bp* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

For the third public review ISC the following changes have been made. This draft adds back footnote f and g and renumber the footnotes that follow. Footnote f and g were incorrectly deleted as part of the 2nd public review ISC. In the SI version of table F-5 the footnote c and d have been revised to have the correct reference to the appropriate requirement in alignment with the IP table F-5. In Table 6.8.1-6 (both IP and SI versions), test procedure references made to the CFR should not include "Part". For example, the Test Procedure reference for Oil fired hot water

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boilers >300,000 Btu/h should be "10 CFR 431.86" instead of "10 CFR Part 431.86" so this change has been included in the third public review ISC.

- ♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *br* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

New DOE refrigeration minimum efficiency requirements went into effect on March 27, 2017 and this addendum updates the requirements in table 6.8.1-12 and 6.8.1-13 to align with the DOE requirements. There were also some nomenclature and other changes which have also been updated in this addendum.

- ♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *by* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

In response to comments from the first public review of addendum BY, two additional exceptions are being added to (a) exempt smaller buildings and additions from this requirement, and (b) clarify that alterations (e.g. roof equipment, lighting, or other replacement or upgrades) do not trigger this requirement.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum *cb* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum revises the Title Purpose and Scope (TPS) of Standard 90.1 to apply to areas outside of the physical building. The addendum introduces a new term "site" to define those types of environments where a physical building may not be present, but the energy consuming lighting and equipment are covered by provisions in the Standard. Also, a new provision is included in Chapter 4 "Administration and Enforcement" to address sites with or without buildings.

- ♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum *cd* to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum is intended to be primarily a clarification of the original intention for bypass and control to permit economizer operation.



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♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum cf to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

The Department of Energy commented that for products in US applications, manufacturers must obtain a waiver from the department to be allowed to sell Walk-in Coolers and Walk-in Freezers that employ vacuum-insulated glazing. They asked that this information be included in the standard. This information has been included as an informative note. This is the only change in the scope of this public review.

♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum ck to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

This proposed ISC to addendum ck addresses several public review comments. Language was added to clarify that renewable energy systems included in the Proposed Design must be modeled identically in the Baseline model except for the capacity. Performance criteria to be used when estimating on-site renewable energy when none exists in the Proposed Design have also been changed. Panel efficiency was increased to 19.1% and total system losses reduced to 11.3% based on a report published by NREL in November 2018, entitled "U.S. Solar Photovoltaic System Cost Benchmark: Q1 2018".

♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum cl to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

This addendum corrects the reference that allows VAV budget systems to be modeled with constant volume zones due to minimum air change requirements (such as when required by a healthcare code) and aligns the minimum airflow requirements for VAV boxes in Section 11 with the requirements in Section 6.5.2.1.

♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/IES Addendum cp to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

This ISC addresses comments to the 1stPRD asking that PCIt remain independent of any renewable energy included in the Proposed Design that is not required

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prescriptively. The ISC also makes a change to the definition of PBPPRE so that the method used to determine the prescriptive on-site renewable allowance is the same as in Section 11. These changes will allow Appendix G to continue to be used by other standards and guidelines such as ASHRAE Standard 189.1 that would have been negatively impacted by the original proposal.

♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cq to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

Federal regulations for ceiling fan testing have been in effect since January 23, 2017. 10 CFR Appendix U to Subpart B of Part 430, Uniform Test Method for Measuring the Energy Consumption of Ceiling Fans provides test procedures for determining the airflow and power consumption of ceiling fans. The purpose of this addendum is to ensure that the maximum fan power input is properly reported for installations both inside and outside the United States. This is addendum is similar to the current requirements for elevators in Standard 90.1 and is intended to set the stage for the future addition of ceiling fan efficiency requirements.

♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cr to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

The proposed addendum introduces a building envelope backstop, striving to preserve design flexibility and minimize documentation effort while improving the long-term building performance. Projects can comply with the proposed envelope backstop by either meeting the prescriptive envelope requirements in Section 5.5 or using Section 5.6 "Building Envelope Trade-Off Option" to demonstrate that the energy cost penalty from the proposed below-code envelope does not exceed the set margins.

♦ **Advisory Public Review of BSR/ASHRAE/IES Addendum cs to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings**

This addendum updates the informative appendix containing informative references in Standard 90.1.



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- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum ct to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This Addendum updates the revision date for ATC-105 from 2000 to 2019.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cu to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum deletes Table 6.8.1-8 as well as the reference to the Table in Section 6.4.1.1h, while renumbering these sections appropriately. However, the test procedure requirement for heat exchanger rating will be retained as there continues to be significant benefit to the Industry from ratings that are in compliance with AHRI 400. Therefore, this addendum will add 6.4.7 to require that liquid to liquid heat exchangers that fall under the scope of AHRI 400 be rated in accordance with AHRI 400.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cv to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This proposal updates the lighting control requirements for parking garages in Section 9.4.1.2.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cw to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This proposal changes the daylight responsive requirements from continuous dimming or stepped control to continuous dimming required for all spaces. The proposal also adds a definition for continuous dimming that is very similar to the NEMA LSD-64 2014 definition.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum cy to ANSI/ASHRAE/IES Standard 90.1-2016, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This proposal is a simple cleanup of an error in an exception to the sidelighting requirements that inadvertently set an exact measurement for an obstruction and it clarifies that the setback distance is a horizontal measurement. The exception is further amended to include natural objects as an obstruction.

## PUBLICATION NOTICE

The standards and guideline documents listed below are now available for purchase on the ASHRAE website at: <http://www.ashrae.org/published-standards>, or by contacting the Sales Department at: ASHRAE, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305. Email: [orders@ashrae.org](mailto:orders@ashrae.org). Fax: 404-321-5479. Telephone: 404.636.8400 (worldwide) or toll free at 1.800.527.4723 for orders in the U.S. and Canada. Addenda may be downloaded for free on the ASHRAE website at: <http://www.ashrae.org/standards-addenda>.

- ♦ **ANSI/ASHRAE Standard 218-2019, *Method of Test for Lubricant and Refrigerant Miscibility Determination***

## INTERIM MEETINGS

A complete listing of project committee interim meetings is provided on ASHRAE's website at:

<https://www.ashrae.org/technical-resources/standards-and-guidelines/project-committee-interim-meetings>.

- ♦ **SPC 113-2013R, *Method of Testing Room Air Diffusion***, will hold conference call Monday, May 13, 2019 from 2:00 pm to 3:00 pm (Eastern). For additional information contact Ryan Johnson, Chair of SPC 113 ([ryanj@priceindustries.com](mailto:ryanj@priceindustries.com)).



## STANDARDS ACTIONS

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- ⇒ [SSPC 41 — Standard Methods for Measurement](#)
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- ⇒ [SSPC 62.2 — Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings](#)
- ⇒ [SSPC 90.1 — Energy Standard for Buildings Except Low-Rise Residential Buildings](#)
- ⇒ [SSPC 90.2 — Energy Efficient Design of Low-Rise Residential Buildings](#)
- ⇒ [SPC 90.4 — Energy Standard for Data Centers and Telecommunications Buildings](#)
- ⇒ [SSPC 161 — Air Quality within Commercial AirCraft](#)
- ⇒ [SSPC 188 — Legionellosis: Risk Management for Building Water Systems](#)
- ⇒ [SSPC 189.1 — Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings](#)
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