ASHRAE CELEBRATING 125 YEARS

Volume X, Issue 11

March 20, 2020

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://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts. All activity for reviewing and commenting on public review drafts can be accomplished completely online. 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. **Note: Paper copies are available for $35.00/copy if 100 pages or less and $45.00 if over 100 pages.**

30-day Public Review from March 20, 2020 to April 19, 2020

- **1st Public Review of BSR/ASHRAE/IES Addendum *d* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum proposes revisions to parking garage ventilation requirements in Standard 90.1.

- **1st Public Review of BSR/ASHRAE/IES Addendum *e* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum is intended to create requirements for the insulation of hot gas refrigerant piping used for space heating or service water heating, clarify that service water piping insulation requirements apply only to piping not supplied by the manufacturer of the service water heating equipment and update the title of Table 6.8.3-1 to reflect current definitions.

- **1st Public Review of BSR/ASHRAE/IES Addendum *f* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This addendum proposes footnote changes Table 6.5.1-2. Historically, the required efficiency increases to eliminate economizer has been a point of confusion for the industry. The confusion stems from whether you need to increase both the full load efficiency and part load efficiency or just the part load efficiency of the equipment. Additionally, if the metric is not in the format of work out divided by energy in (ex. IPLV), then you could get different efficiency levels required based on how you do the math.

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- **1st Public Review of BSR/ASHRAE/IES Addendum *g* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

The current language in 6.5.1.1.5 is: "Systems shall provide a means to relieve excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet shall be located so as to avoid recirculation into the building." This is vague and unenforceable. Consequently, it is often ignored and violated. The proposed language is specific and enforceable and will achieve the desired intent of the current language.

- **1st Public Review of BSR/ASHRAE/IES Addendum *h* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

Section 4.2.1.1 requires calculating the area-weighted average BPF for mixed use buildings that have several building area types. However, there are several different types of areas defined in the standard - gross floor area, gross conditioned floor area, gross lighted floor area, etc., and it is unclear which area applies in this case. The proposed addendum clarifies that the gross floor area should be used when calculating the area-weighted BPF.

- **1st Public Review of BSR/ASHRAE Addendum *a* to ANSI/ASHRAE Standard 90.4-2019, *Energy Standard for Data Centers***

Addendum a to 90.4-2019 modifies the Annualized MLC section requirements to specify how heat recovery measures can be incorporated in the data center design and calculations. The addendum also includes clarifications to some of the pre-existing language in Section 6.5 and lifts previous requirements about meeting ASHRAE Thermal Guidelines for 8,460 hours per year, which is considered restrictive for most data centers.

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- **1st Public Review of BSR/ASHRAE Addendum *b* to ANSI/ASHRAE Standard 90.4-2019, *Energy Standard for Data Centers***

Addendum b to 90.4-2019 modifies the Alternative Compliance Method in Section 11, providing a new option to obtain credit for on-site renewable energy systems up to 5% of the IT load.

- **1st Public Review of BSR/ASHRAE Addendum *d* to ANSI/ASHRAE Standard 90.4-2019, *Energy Standard for Data Centers***

Addendum d to 90.4-2019 provides several updates to the language in Section 8 to clarify that diesel rotary UPS systems can be used in the design. It also includes corrections to a few errors and inconsistencies identified in the 2019 publication.

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bc* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bc to 189.1-2017 adds a new requirement for compliance with the Chapter 7 performance option calling for larger building projects to perform Energy Simulation Aided Design per ASHRAE Standard 209.

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bf* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bf to 189.1-2017 provides improvements to the numbering and language regarding the application of Section 8.3.1.10 (Preoccupancy Ventilation Control) to better convey the intent behind those requirements.

1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bg* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*

Addendum bg to 189.1-2017 reflects changes to Chapters 7 and 8 that were identified based on the updated publication of ASHRAE 62.1. Specific changes include a clarification on the use of Standard 170 vs 62.1, the addition of ISO filter standards as an alternative to MERV ratings, and further details concerning outdoor ozone air cleaning requirements.

PUBLIC REVIEW—CALL FOR COMMENTS

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bl* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bl to 189.1-2017 clarifies the relationship between Standard 90.1 Appendix G and Standard 189.1 Appendix C and verifies that these modeling rules apply to Sections 7.5.1, 7.5.2, and 7.5.3. The addendum also adds language to Normative Appendix C that clarifies how on-site non-renewable energy generation and combined heat and power systems are modeled for performance calculations.

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bn* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bn to 189.1-2017 adds a requirement that air cleaning devices must not emit ozone, which closely resembles a recent change in Standard 62.1.

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bo* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bo to 189.1-2017 modifies soil-gas control requirements to reflect current industry practices that incorporate ANSI/AARST mandated soil-gas control measures in new building construction projects. Specifically, new requirements from ANSI/AARST Standard CC-1000-2018 have been introduced to Section 8. Additional requirements for mitigation and testing based on AARST standards have also been included in Section 10.

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- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bp* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bp to 189.1-2017 modifies Section 4.2 to remove language that was considered problematic in the context of an ASHRAE standard. The changes seen here do not alter the intent of Section 4.2, which addresses the jurisdictional options added to the standard to facilitate local adoption of the Standard or the IgCC.

45-day Public Review
March 20, 2020 – May 4, 2020

- **2nd Public Review ISC of BSR/ASHRAE/IES Addendum *av* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings***

This ISC to addendum av introduces requirements to address thermal bridges in this standard. The contents of this proposal include prescriptive and performance (e.g. modeling thermal transmission values) options. The goal is to provide users with as many options as are currently available and allow users to choose which method of evaluation (e.g. simple or complex) that may be in the best interest of the building owner or building project without sacrificing the existing stringency.

- **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *bk* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum bk to 189.1-2017 updates the envelope criteria in Informative Appendix E based on changes to fenestration requirements that occurred in ANSI/ASHRAE/IES Standard 90.1-2019. Per Section 7.4.2.1, Appendix E is calculated by reducing Standard 90.1 requirements for U-factor by 5% for vertical fenestration and skylights. The same is true for calculating the solar heat gain coefficient (SHGC) for skylights and east- and west-oriented vertical fenestration, unless otherwise noted. There are no changes to the opaque envelope requirements.

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

- **GPC 14-2014R, *Measurement of Energy, Demand and Water Savings,*** will hold conference calls on the following dates and times:
  - ⇨ March 27, 2020 from 12:00 pm to 1:30 pm (Eastern)
  - ⇨ April 20, 2020 from 12:00 pm to 1:30 pm (Eastern)
  - ⇨ May 18, 2020 from 12:30 pm to 2:00 pm (Eastern)
  - ⇨ June 19, 2020 from 12:30 pm to 2:00 pm (Eastern)

  For additional information contact Dennis Landsberg, Chair of GPC 14 (drlrm@aol.com).

- **SSPC 41, *Standard Methods of Measurement,* Standard 41.6-2014R, *Standard Methods for Humidity Measurement.*** The 41.6 subcommittee of SSPC 41 will hold a conference call on Wednesday, April 1, 2020 from 3:00 pm to 5:00 pm (Eastern). For additional information contact Michael Shows (michael_shws@yahoo.com), Chair of SSPC 41.

- **SPC 105-2014R, *Standard Methods of Determining, Expressing and Comparing Building Energy Performance and Greenhouse Gas Emissions***, will hold conference calls on April 1, 2020 from 4:00 pm to 6:00 pm (Eastern). For additional information contact Patrick Carpenter, Chair of SPC 105 (facperfeng@comcast.net).

ERRATA

A new errata sheet for the following standard is now available on the ASHRAE website at http://www.ashrae.org/standards-errata.

- **ANSI/ASHRAE/IES Standard 90.1-2019 (I-P and SI Editions), *Energy Standard for Buildings Except Low-Rise Residential Buildings***, dated March 18, 2020. These replace the versions dated February 21, 2020.

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INTERPRETATIONS

New official interpretations to the following standards are now available on the ASHRAE website at: http://www.ashrae.org/standards-interpretations.

- **ANSI/ASHRAE/ASHE Standard 170-2017, *Ventilation of Health Care Facilities*.**

  - ⇨ Interpretation 170-2017-5 – February 4, 2020 (Refers to the requirements in ANSI/ASHRAE/ASHE Standard 170-2017, Section 6.3.2.2, regarding exhaust discharge outlets.)

  - ⇨ Interpretation 170-2017-6 – February 4, 2020 (Refers to the requirements in ANSI/ASHRAE/ASHE Standard 170-2017, Section 6.3.2.2, regarding exhaust discharge outlets from pharmacy hazardous-drug exhausted enclosures.)

  - ⇨ Interpretation 170-2017-7 – February 4, 2020 (Refers to the requirements in ANSI/ASHRAE/ASHE Standard 170-2013, Table 7.1 (repeated in Tables 8.1 and 9.1), regarding patient corridors.)

  - ⇨ Interpretation 170-2017-8 – February 4, 2020 (Refers to the requirements in ANSI/ASHRAE/ASHE Standard 170-2013, Section 7.1.a.6.i and 7.1.a.6.ii (repeated in 8.1.a and 9.1.a), regarding system outdoor air calculation.)

  - ⇨ Interpretation 170-2017-9 – February 4, 2020 (Refers to the requirements in ANSI/ASHRAE/ASHE Standard 170-2017, Section 7.4.1a and Note o to Table 7.1, regarding operating room maximum velocity of diffuser.)

JOIN A LISTSERVE

Click on the link below to learn more about ASHRAE Standards Activities!

- ⇨ SSPC 41 — Standard Methods for Measurement
- ⇨ SSPC 62.1 — Ventilation for Acceptable Indoor Air Quality
- ⇨ 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
- ⇨ Code Interaction Subcommittee (CIS) Listserve