ASHRAE CELEBRATING 125 YEARS

Volume X, Issue 29

July 17, 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 30329-2398, 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 July 17, 2020 — August 16, 2020

- **1st Publication Public Review of BSR/ASHRAE Addendum *k* to ANSI/ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems***

This addendum modifies the existing listing requirement in ANSI/ASHRAE Standard 15 by clarifying the acceptable product safety listing standards.

- **1st Public Review of BSR/ASHRAE Addendum *m* to ANSI/ASHRAE Standard 34-2019, *Designation and Safety Classification of Refrigerants***

This addendum adds the zeotropic refrigerant blend R-472A to Tables 4-2 and D-2.

- **1st Public Review of BSR/ASHRAE Addendum *n* to ANSI/ASHRAE Standard 34-2019, *Designation and Safety Classification of Refrigerants***

This proposed addendum adds an informative note to Section 9.5.2 which references the new Informative Appendix I.

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

The ISC corrects a mistake found during review by the Mechanical Subcommittee. The instruction to multiply by the efficiency value in Table 6.5.1-2 has been corrected.

PUBLIC REVIEW—CALL FOR COMMENTS

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

This proposed addendum makes several editorial changes to Appendix G requirements related to the area and orientation of the vertical fenestration in the baseline design. In addition, it describes the methodology that must be used by projects where the baseline vertical fenestration area that must be allocated to a certain building face exceeds the gross above grade wall area of that building face.

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

This proposed addendum adds a requirement for motorized dampers on shaft vents used for temperature control. These were shown to be cost effective for outdoor air and exhaust air openings in Section 6.4.3.4.2. This proposed addendum reduces stringency and costs in mild climates and short buildings by allowing nonmotorized dampers in lieu of motorized dampers, mirroring Exception 1 to Section 6.4.3.4.2.

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

This addendum adds an exception for units that use only series energy recovery for reheating dehumidified air to the requirements in Section 6.5.2.6.

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

This addendum reduces the minimum connected load for daylighting responsive controls (9.4.1.1) for sidelighting (e) and toplighting (f).

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

This addendum removes confusing language regarding setback requirements for HVAC systems in hotel guest rooms and replaces it with a reference to Section 6.4.3.3.5.1 in Standard 90.1 that has identical intent.

45-day Public Review from July 17, 2020 — August 31, 2020

- **1st Public Review of BSR/ASHRAE Standard 111-2008R, *Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation and Air-Conditioning Systems***

ASHRAE Standard 111-2008R provides uniform procedures for measurement, testing, adjusting, balancing, evaluating, and reporting the performance of building heating, ventilating, and air conditioning systems in the field.

NEW PROJECTS—CALL FOR COMMENTS

Constructive comments are invited on the Title, Purpose, and Scope (TPS) for the following newly approved projects. TPSs for public comment can be accessed by going to ASHRAE's website at: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts. To obtain a paper copy of any TPS draft, contact ASHRAE Inc, Attn: Standards Section, 1791 Tullie Circle NE, Atlanta, GA 30329-2398, or email at: standards.section@ashrae.org. Note: Paper copies are available for $35.00 per copy if 100 pages or less and $45.00 if over 100 pages.

30-day Public Review from July 17, 2020 — August 16, 2020

- **BSR/ASHRAE Standard 129P, *Measuring Air-Change Effectiveness***

1. PURPOSE: This standard prescribes a method for measuring air-change effectiveness in mechanically ventilated spaces and buildings that meet specified criteria. The air-change effectiveness is a measure of the effectiveness of outdoor air distribution to the breathing level within the ventilated space.

2. SCOPE:

2.1 The method of measuring air-change effectiveness compares the age of air where occupants breathe to the age of air that would occur throughout the test space if the indoor air were perfectly mixed.

2.2 The standard includes measurement procedures and criteria for assessing the suitability of the test space for measurements of air-change effectiveness.

NEW PROJECTS—CALL FOR COMMENTS

- **BSR/ASHRAE Standard 231P, *CDL - A Control Description Language for Building Environmental Control Sequences***

PURPOSE:

The purpose of this standard is to define a declarative graphical programming language for building environmental control sequences that is both human and machine readable, designed for specification, implementation through machine-to-machine translation, documentation, and simulation.

SCOPE:

This standard applies to building automation systems controlling environmental systems such as mechanical systems, active facades, and lighting.

NEW REVISION PROJECTS APPROVED

Standards Committee approved the following new revision projects. The TPSs for these projects are not available for public review comment at this time. If you would like to comment, please email Connor Barbaree at: Standards.Section@ashrae.org.

- **ASHRAE Guideline 21-2018R (IEEE standard 1635-2018), *Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications***
- **ASHRAE Guideline 40-2017R, *Refrigeration Oil Description***
- **BSR/ASHRAE Standard 125-2016R, *Method of Testing Thermal Energy Meters for Liquid Streams in HVAC Systems***
- **BSR/ASHRAE Standard 184-2016R, *Method of Test for Field Performance of Liquid-Chilling Systems***

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NEW PROJECTS—CALL FOR MEMBERS

A *Call for Members* is announced for the following new project committees. Persons who are interested in serving on these ASHRAE committees are asked to indicate their interest by completing the online membership application forms listed under Instructions for New Applicants at https://www.ashrae.org/pcmemberapp or by contacting Steve Ferguson at: ASHRAE, 1791 Tullie Circle, N.E., Atlanta, GA 30329-2398; phone: 678-539-1138; fax: 678-539-2138; email Standards.Section@ashrae.org.

- **GPC 21-2018R/IEEE standard 1635-2018, *Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications***

1. PURPOSE: The purpose of this document is to provide heating, ventilation, and air conditioning (HVAC) and battery system designers and users with information and recommendations concerning the ventilation and thermal management of stationary battery installations.

2. SCOPE: This guide discusses the ventilation and thermal management of stationary battery systems as applied to the following:

- Vented (flooded) lead-acid batteries (VLA)
- Valve-regulated lead acid (VRLA)

Nickel-cadmium batteries (NiCd)

For each category, both the technology and the design of the battery are described in order to facilitate user understanding of the environmental issues associated with each type of technology.

The scope of this document includes only stationary batteries under conditions of expected use. Multiple operating modes are identified.

The ventilation practices described in this guide represent the "best practice" based on the information available at the time this document was developed. The user should evaluate these practices against their operating experience, operating conditions, number and size of battery systems, manufacturer's recommendations, resources, and needs in developing an environment that maximizes safety and is conducive to optimum operation of the equipment. These recommendations were developed without consideration of economics, availability of equipment and personnel, or relative importance of the application. Design of a ventilation system for a specific battery installation requires consideration of all issues, not just the technical issues considered in this document.

NEW PROJECTS—CALL FOR MEMBERS

- **GPC 40-2017R, *Refrigeration Oil Description***

Purpose: The purpose of this guideline is to describe lubricants used in refrigeration and air-conditioning systems based on molecular structure, physical properties, and chemical properties. Since the properties of generally similar lubricants can vary significantly depending on source of formulation, terms such as “refrigerant lubricants” have little meaning in defining such materials. This guideline defines those properties critical to the precise identification of refrigeration lubricants, along with recognized test procedures for the determination of these properties.

Scope:

2.1 Application. This guideline applies to lubricants used or proposed as compressor lubricants in refrigerating systems.

2.2 Test Methods. This guideline provides recognized test methods intended to:

(a) describe a specific class refrigeration lubricant without the use of commercial designations,

(b) describe the molecular structure for various classes of refrigeration lubricants, and

(c) define the critical properties needed to describe a refrigeration lubricant using recognized test procedures.

2.3 Limits. This guideline is not intended to define refrigeration oil quality through the establishment of test specifications or requirements. In addition, performance tests intended to measure quality have been excluded from this guideline.

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NEW PROJECTS—CALL FOR MEMBERS

- **SPC 129P, *Measuring Air-Change Effectiveness***

1. PURPOSE: This standard prescribes a method for measuring air-change effectiveness in mechanically ventilated spaces and buildings that meet specified criteria. The air-change effectiveness is a measure of the effectiveness of outdoor air distribution to the breathing level within the ventilated space.

2. SCOPE:
2.1 The method of measuring air-change effectiveness compares the age of air where occupants breathe to the age of air that would occur throughout the test space if the indoor air were perfectly mixed.
2.2 The standard includes measurement procedures and criteria for assessing the suitability of the test space for measurements of air-change effectiveness.

- **SPC 231P, CDL - A Control Description Language for Building Environmental Control Sequences**

PURPOSE:
The purpose of this standard is to define a declarative graphical programming language for building environmental control sequences that is both human and machine readable, designed for specification, implementation through machine-to-machine translation, documentation, and simulation.

SCOPE:
This standard applies to building automation systems controlling environmental systems such as mechanical systems, active facades, and lighting.

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 STANDARD 55-2017, *Thermal Environmental Conditions for Human Occupancy,*** dated July 10, 2020. This replaces the version dated January 29, 2019.

TPS CHANGES APPROVED

Title, Purpose and Scope (TPS) changes for the projects listed below were approved during the ASHRAE Summer Meetings . These TPSs can be viewed on the ASHRAE website at www.ashrae.org/tps; however, they are not available for public review comment at this time. If you would like to submit a comment, please email Connor Barbaree at Standards.Section@ashrae.org.

- **Standard 35, *Method of Testing Refrigerant Driers and Desiccant Materials***
- **Standard 41.3, *Standard Methods for Pressure Measurement***
- **Standard 135, *Semantic Data Model for Analytics and Automation Applications in Buildings***
- **Standard 140, *Method of Test for the Evaluation of Building Performance Simulation Software***
- **Standard 223P, *Designation and Classification of Semantic Tags for Building Data***
- **Standard 228P, *Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance***

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:
  - ⇨ July 27, 2020 from 12:00 pm to 1:30 pm (Eastern)
  - ⇨ August 12, 2020 from 12:00 pm to 1:30 pm (Eastern)

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

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INTERIM MEETINGS

- **GPC 21-2018R, *Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications,*** will hold a conference call on August 13, 2020 from 4:00 pm to 5:00 pm (Eastern). For additional information contact Deep Ghosh, Chair of GPC 21 (dghosh@southernco.com).

- **SSPC 30, *Method of Testing Liquid Chillers,*** will hold a conference call on August 4, 2020 from 1:00 pm to 2:00 pm (Eastern). For additional information contact Justin Prosser, Chair of SSPC 30 (justin.prosser@danfoss.com).

- **SPC 37-2009R, *Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat Pump Equipment,*** has rescheduled its July 17, 2020 conference call to July 22, 2020 from 2:00 pm to 4:00 pm (Eastern). For additional information contact Christopher Stone, Chair of SPC 37 (cstone@ahrinet.org).

- **SPC 211, *Standard for Commercial Building Energy Audits,*** will hold a conference call on July 17, 2020 from 1:00 pm to 3:00 pm (Eastern). For additional information contact Jay Kohler, Chair of SPC 211 (jkohler9@comcast.net).

- **SPC 213P, *Method for Calculating Moist Air Thermodynamic Properties,*** will hold conference calls from 10:00 am to 12:00 pm (Eastern) on the following dates:
  - ⇨ September 2, 2020
  - ⇨ September 23, 2020
  - ⇨ October 7, 2020
  - ⇨ October 21, 2020

For additional information, please contact Vikrant Aute, Chair of SPC 213 (vikrant@umd.edu).

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