



# STANDARDS ACTIONS

## PUBLIC REVIEW—CALL FOR COMMENTS

## 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](mailto: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.**

for direct building pressure control with actuated relief dampers without fans.

**30-day Public Review from November 20, 2020 – December 20, 2020**

♦ **1<sup>st</sup> Public Review of Addendum *t* to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum is to clarify that a single building pressure loop should be used for each pressure zone. This addendum also provides direction on which building pressure sensor(s) to use as the control loop input and provides options for relief fans that do not share a common relief fan inlet plenum. Informative text is added to remove Stage 0 (barometric) relief if the return air pressure drop is high.

♦ **1<sup>st</sup> Public Review of Addendum *z* to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum is to allow cooling-only terminal units to provide heating in occupied, warm-up, and setback modes if the air handling unit supply air temperature is greater than room temperature.

♦ **3<sup>rd</sup> 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 original draft addressed confusion related to efficiency increases required to eliminate an economizer. This 3<sup>rd</sup> ISC draft makes additional improvements to language and italics as noted in a comment received during the second public review.

♦ **1<sup>st</sup> Public Review of Addendum *v* to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum adds pressure zone group assignments to Section 3.1 Information Provided by the Designer. Pressure zone group assignments are added to provide direction on which relief/return fans and building pressure sensors to group together for direct building pressure control options.

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

This addendum is proposed to capture additional energy savings by updating the requirements of 9.1.2 to close loopholes that allowed alteration projects to comply without meeting all the requirements of Chapter 9.

♦ **1<sup>st</sup> Public Review of Addendum *w* to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum is to resolve inconsistencies between variable names used in Section 3.1.6.2 (Information Provided by Designer) and Section 5.2.1.4 for Single Zone Air Handling Units. This addendum also fixes a reference to MinOA-P\* in Section 5.18.8.3 to ensure the sequence works regardless of minimum outdoor airflow control approach (with or without an airflow monitoring station) and adds an option

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

This addendum removes a duplicate requirement for Classroom/Lecture Hall/Training Room lighting in Table G3.7.

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

This addendum adds an exception to the requirement in Section 6.4.3.3.3. that requires optimum start controls for systems that employ DDC controls. The exception accounts for residential buildings which are not subject to scheduled occupancy times.



# STANDARDS ACTIONS

## PUBLIC REVIEW—CALL FOR COMMENTS

## PUBLIC REVIEW—CALL FOR COMMENTS

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

This proposed addendum removes the use of solar reflectance index (SRI) for walls and replaces it with the more accurate and relevant term, solar reflectance; SRI is still used when referring to roofs. The proposal also adds requirements for south-, east-, and west-facing walls to have a minimum solar reflectance of 0.30 in climate zone 0.

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

This addendum modifies Section G3.1.3.7 and Table G3.1.3.7 to clarify that baseline building design chillers should be sized based on the total peak coincident cooling load of baseline HVAC systems of type 7, 8, 11, 12 and 13. The current language requires that the building peak cooling load be used for sizing baseline chillers and this creates confusion in instances where a building may have a large portion of the cooling load served by DX cooling systems.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE/IES Addendum a to ANSI/ASHRAE/IES Standard 90.2-2018, *Energy-Efficient Design of Low-Rise Residential Buildings***

The purpose of this addendum is to update normative references to their latest versions and to make one normative reference addition (ASTM E3158) to serve as an alternative test method for Whole Building Air Leakage compliance.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum f to ANSI/ASHRAE Standard 188-2018, *Legionellosis: Risk Management for Building Water Systems*.**

This addendum updates the reference for the Cooling Technology Institute Guideline from the old designation of WTB-148 to the new designation, GDL-159.

**45-day Public Review from November 20, 2020 – January 4, 2021**

- ♦ **1<sup>st</sup> Public Review of Addendum r to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum includes the lead/lag and lead/standby equipment rotation sequences developed as part of ASHRAE Research Project 1711: Advanced Sequences of Operation for HVAC Systems – Phase II Central Plants and Hydronic Systems.

- ♦ **1<sup>st</sup> Public Review of Addendum s to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum is to resolve the issues related to minimum outdoor airflow control for multiple zone air handling units with return fans. This addendum also provides clarification on building pressure control for return fans and adds informative text for the designer with respect to defining pressure zones.

- ♦ **1<sup>st</sup> Public Review of Addendum u to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***

This addendum includes edits to the automatic fault detection and diagnostics sections. AHU operating state tables and figures for return fan systems, which were previously missing, have been added. Fault Condition #1 has been updated to use DSPavg instead of DSP for consistency. A directive has been added to delete Fault Condition #7 if there is no heating coil. Fault Condition #12 has been expanded to include operating state, OS#2, as supply air temperature should be less than or equal to mixed air temperatures when in economizer.



# STANDARDS ACTIONS

## PUBLIC REVIEW—CALL FOR COMMENTS

## INTERIM MEETINGS

♦ **1<sup>st</sup> Public Review of Addendum x to ASHRAE Guideline 36-2018, High-Performance Sequences of Operation for HVAC Systems**

This addendum includes the CHW plant sequences and associated logic variables and hardwired control points developed as part of ASHRAE Research Project 1711: Advanced Sequences of Operation for HVAC Systems – Phase II Central Plants and Hydronic Systems. Typos and minor language clarity issues identified since final publication of the RP-1711 sequences on December 31, 2019, have been cleaned up in this version.

Cross-references herein refer to content from Addendum r. Approval of this addendum is therefore predicated on approval of Addendum r.

♦ **1<sup>st</sup> Public Review of Addendum y to ASHRAE Guideline 36-2018, High-Performance Sequences of Operation for HVAC Systems**

This addendum includes the HW plant sequences and associated logic variables and hardwired control points developed as part of ASHRAE Research Project 1711: Advanced Sequences of Operation for HVAC Systems – Phase II Central Plants and Hydronic Systems. Typos and minor language clarity issues identified since final publication of the RP-1711 sequences on December 31, 2019 have been cleaned up in this version.

Cross-references herein refer to content from Addendum r. Approval of this addendum is therefore predicated on approval of Addendum r.

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

This addendum updates Section 6 chiller requirements, specifically the cooling efficiency adjustment for centrifugal chillers (6.4.1.2.1) and requirements for chillers with a freeze protection fluid (6.4.1.2.2). As an additional change, “fluid” has replaced “water” wherever the heat exchanger fluid had been specified as such; this convention was introduced in 2010.

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>. Reminder: recording (Audio, Video, Screenshots) of ASHRAE meetings, including online meetings, is strictly prohibited.

- ♦ **SPC 37-2009R, Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat Pump Equipment**, will hold a conference call December 2, 2020 from 2:00 pm to 4:00 pm (Eastern). For additional information contact Christopher Stone, Chair of SPC 37 ([cstone@ahrinet.org](mailto:cstone@ahrinet.org)).
- ♦ **SGPC 41P, Design, Installation and Commissioning of Variable Refrigerant Flow Systems**, will hold a conference call on December 7, 2020 from 12:00 pm to 3:00 pm (Eastern). For additional information contact Christopher Williams, Chair of SGPC 41 ([Christopher.Williams@TraneTechnologies.com](mailto:Christopher.Williams@TraneTechnologies.com)).
- ♦ **SSPC 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings**, The SSPC 62.2 IAQ Subcommittee will hold a webinar on December 9, 2020 from 11:00 am to 1:30 pm (Eastern). For additional information contact Mark Weber ([mweber@ashrae.org](mailto:mweber@ashrae.org)).
- ♦ **SSPC 72, Method of Testing Open and Closed Commercial Refrigerators and Freezers**, will hold conference calls on December 8, 2020 from 1:00 pm to 3:00 pm (Eastern). For additional information contact Stephen Schaefer, Chair of SSPC 72 ([stschaef@hoshizaki.com](mailto:stschaef@hoshizaki.com)).
- ♦ **SPC 118.1-2012R, Method of Testing for Rating Commercial Gas, Electric and Oil Service Water Heating Equipment**, SPC 118.1 will hold a conference call on Friday, December 4, 2020 from 11:00 am to 1:00 pm (Eastern). For additional information contact Charles High, Chair of SPC 118.1 ([highdyn@knology.net](mailto:highdyn@knology.net)).



# STANDARDS ACTIONS

INTERIM MEETINGS	NEW REVISION PROJECTS APPROVED
<ul style="list-style-type: none"> <li>♦ <b>SPC 118.2-2006R, <i>Method of Testing for Rating Residential Water Heaters</i></b>, will hold a conference call on Thursday, December 3, 2020 from 3:00 pm to 5:00 pm (Eastern). For additional information contact Jim Lutz, Chair of SPC 118.2 (<a href="mailto:jdLutz@hotwaterresearch.net">jdLutz@hotwaterresearch.net</a>).</li> <li>♦ <b>SPC 133-2015R, <i>Method of Testing Direct Evaporative Air Coolers</i></b>, will hold a conference call on November 20, 2020 from 10:00 am to 11:00 am (Eastern). For additional information contact Patricia Graef, Chair of SPC 133 and SPC 143 (<a href="mailto:pat.graef@att.net">pat.graef@att.net</a>).</li> <li>♦ <b>SPC 143-2015R, <i>Method of Test for Rating Indirect Evaporative Coolers</i></b>, SPC 143 will hold a conference call on November 20, 2020 from 10:00 am to 11:00 am (Eastern). For additional information contact Patricia Graef, Chair of SPC 133 and SPC 143 (<a href="mailto:pat.graef@att.net">pat.graef@att.net</a>).</li> <li>♦ <b>SPC 191P, <i>Standard for the Efficient Use of Water in Building Mechanical Systems</i></b>, will hold a conference call on November 30, 2020 at 3:00 pm (Eastern). For additional information contact Fred Betz, Chair of SPC 191 (<a href="mailto:fbetz@aeieng.com">fbetz@aeieng.com</a>).</li> <li>♦ <b>SPC 221, <i>Test Method to Field-Measure and Score the Cooling and Heating Performance of an Installed Unitary HVAC System</i></b>, SPC 221 will hold a conference call on December 10, 2020 from 1:00 pm to 2:00 pm (Eastern). For additional information contact Rob Falke, Chair of SPC 221 (<a href="mailto:robf@ncihvac.com">robf@ncihvac.com</a>).</li> <li>♦ <b>SPC 224P, <i>Standard for the Application of Building Information Modeling</i></b>, will hold a conference call on December 16, 2020 from 1:00 pm to 3:30 PM (Eastern). For additional information contact Stephen Roth, Chair of SPC 224 (<a href="mailto:stephenroth@gmail.com">stephenroth@gmail.com</a>).</li> <li>♦ <b>SPC 231P, <i>CDL - A Control Description Language for Building Environmental Control Sequences</i></b>, will hold a conference call on December 2, 2020 from 11:00 am to 12:30 pm (Eastern). For additional information contact Paul Ehrlich, Chair of SPC 231 (<a href="mailto:paul@buildingintelligencegroup.com">paul@buildingintelligencegroup.com</a>).</li> </ul>	<p>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: <a href="mailto:Standards.Section@ashrae.org">Standards.Section@ashrae.org</a>.</p> <ul style="list-style-type: none"> <li>♦ <b>ASHRAE Guideline 6-2015R, <i>Refrigerant Information Recommended for Product Development and Standards</i></b></li> <li>♦ <b>ASHRAE Guideline 33-2013 (RA 2016)R, <i>Management for Sustainable, High Performance Operations &amp; Maintenance</i></b></li> <li>♦ <b>ANSI/ASHRAE Standard 16-2016R, <i>Method of Testing for Rating Room Air Conditioners, Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps for Cooling and Heating Capacity</i></b></li> <li>♦ <b>ANSI/ASHRAE Standard 194-2017R, <i>Method of Test for Direct-Expansion Ground-Source Heat Pumps</i></b></li> <li>♦ <b>ANSI/ASHRAE Standard 138-2013 (RA 2016)R, <i>Method of Testing for Rating Ceiling Panels for Sensible Heating and Cooling</i></b></li> </ul>
	<div style="text-align: center; background-color: #cccccc; padding: 5px;"><b>ERRATA</b></div> <p>A new errata sheet for the following standards are now available on the ASHRAE website at <a href="http://www.ashrae.org/standards-errata">http://www.ashrae.org/standards-errata</a>.</p> <ul style="list-style-type: none"> <li>♦ <b>ANSI/ASHRAE/IES Standard 90.1-2019 (I-P and SI Editions), <i>Energy Standard for Buildings Except Low-Rise Residential Buildings</i></b>, dated November 13, 2020. These replace the versions dated October 5, 2020.</li> <li>♦ <b>ANSI/ASHRAE/ASHE Addendum a to ANSI/ASHRAE/ASHE Standard 170-2017, <i>Ventilation of Health Care Facilities</i></b>, dated September 16, 2020.</li> </ul>



# STANDARDS ACTIONS

## INTERPRETATIONS

A new official interpretation to the following standard is now available on the ASHRAE website at: <http://www.ashrae.org/standards-interpretations>.

- ◆ **ANSI/ASHRAE/ACCA Standard 211-2018, *Standard For Commercial Building Energy Audits***, approved November 13, 2020. Refers to the requirements presented in ANSI/ASHRAE/ACCA Standard 211-2018, Sections 5.2.2, 5.3.3.2, 5.4.2.1, 5.4.4, and 5.5.1d.1, regarding site visits.

## STANDARDS ACHIEVEMENT AWARD

Each year the Society recognizes the outstanding efforts of a single volunteer in the area of standards development. The Standards Achievement Award recognizes excellence in volunteer service and serves to heighten general membership awareness of, and interest in, standards activities.

The award is open to ASHRAE members who have demonstrated outstanding achievement in the ASHRAE standards development process based on criteria presented in Appendix B of the Standards Committee Reference Manual, which can be found on the ASHRAE website at: <http://www.ashrae.org/standards-forms-procedures>.

Nominations are solicited during the first half of the Society year and then the Standards Committee will select the recipient at the 2021 ASHRAE Virtual Winter Meeting.

The Standards Achievement Award will be presented during the Honors and Awards portion of the Plenary Session at the ASHRAE Annual Meeting in Phoenix. A certificate will be presented to the recipient by the ASHRAE President.

Nominations are due to the Sr. Manager of Standards, Connor Barbaree ([cbarbaree@ashrae.org](mailto:cbarbaree@ashrae.org)), by January 11, 2021. The nomination form can be found on the ASHRAE website at: <http://www.ashrae.org/standards-forms-procedures>.

## JOIN A LISTSERVE

Click on the following link to learn more about ASHRAE Standards Activities <https://www.ashrae.org/listserves>.

- ⇒ [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](#)