

**STANDARDS COMMITTEE**

**MINUTES**

**ASHRAE 2022 Annual Meetings**

**June 25 and 29, 2022**

*These are not the official minutes until approved by StdC*

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**Standards Committee Action Items**

**As of June 29, 2022**

**Updated Items Noted in Red**

|  |  |  |  |
| --- | --- | --- | --- |
| **January Orlando Winter Meeting** | | | |
| **AI#** | **Action Item** | **Assigned** | **Status** |
| 1 | An action item was assigned to PPIS (lead) along with CIS and ILS/ISAS to take a longer look at globalization in all relevant documents PASA and other procedures.  Complete and will provide list no later than fall of 2022 | PPIS and CIS | Closed |

# 1. Call to Order and Introductions

The Standards Committee 2022 Spring Meeting was called to order by incoming and acting StdC Chair, Susanna Hanson, on Saturday, June 25, 2022, 8:00 am ET in the Civic South room of the Sheraton hotel Toronto.

**Introductions**

Std members, incoming members, staff and guests were greeted. The attendees were as follows:

|  |  |
| --- | --- |
| **Members Present**  Rick Heiden\*  Susanna Hanson  Charles Barnaby  Robert B. Burkhead  Thomas Cappellin  Douglas D. Fick  Mike Gallagher  Patricia Graef  Srinivas Katipamula  Gerald Kettler  Dennis Knight  Jay Kohler  Paul Lindahl  Jim Lutz  Julie Majurin  Larry Markel  Margaret Mathison  Justin Prosser  Dave Robin  Lawrence Schoen  Steven Sill  Rusty Tharp  Bill Walter  Craig P. Wray  Jaap Hogeling, BOD ExO  Tim J McGinn, CO | **Members Not Present**  Essam E. Khalil  Cesar L. Lim  Gwelen Paliaga  Christian Taber  **Staff Present**  Connor Barbaree, *Sr. MOS*  Susan LeBlanc, *SA*  Tanisha Meyers-Lisle, *PA*  **Guests Present**  William Bahnfleth  Jonathan Humble  Philip Johnson  Larry Kouma  Shen Yang\*  Kathleen Owen\*\* |

\*June 25th only

\*\* June 29th only

# 2. Adoption of the Agenda

The agenda was adopted as presented and a review of the ASHRAE Code of Ethics, Commitment to Care and Anti-Trust Guidelines were made.

# 3. Chair’s Report

Incoming Chair, Susanna Hanson, noted the new ASHRAE Simplified Rules of Order & Quick Reference Guide. Ms. Hanson acknowledged and thanked StdC members rolling off the committee and welcomed new members.

# 4. BOD Officials’ Reports

Board ExO, Jaap Hogeling, presented the ASHRAE Leadership Presentation as shown in [Attachment A](#AttA).

# 5. Sr. MOS Report

There were no new appeals or complaints of action to report.

# 6. Approval of Minutes

It was moved by Doug Fick and seconded by Justin Prosser:

**1** That the StdC April 11, 2022 Meeting Minutes be approved.

**MOTION PASSED.** 22-0-0 Chair not Voting (CNV)

# 7. Review of Action Items

See the updated status of [Action Items](#actionitems) on page 2.

# 8. Publication Drafts

It was moved by Doug Fick and seconded by Bill Walter:

**2** That BSR/ASHRAE/IES Addendum *t* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[1]](#footnote-1) CNV

It was moved by Doug Fick and seconded by Bill Walter:

**3** That BSR/ASHRAE/IES Addendum *ac* to ANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[2]](#footnote-2) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**4** That BSR/ASHRAE/IES Addendum *am* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[3]](#footnote-3) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**5** That BSR/ASHRAE/IES Addendum *av* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[4]](#footnote-4) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**6** That BSR/ASHRAE/IES Addendum *bg* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[5]](#footnote-5) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**7** That BSR/ASHRAE/IES Addendum *bj* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[6]](#footnote-6) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**8** That BSR/ASHRAE/IES Addendum *bq* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[7]](#footnote-7) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**9** That BSR/ASHRAE/IES Addendum *br* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[8]](#footnote-8) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**10** That BSR/ASHRAE/IES Addendum *co* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 19-0-3[[9]](#footnote-9) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**11** That BSR/ASHRAE/IES Addendum *cq* toANSI/ASHRAE/IES Standard 90.1-2019, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 12-7[[10]](#footnote-10)-3[[11]](#footnote-11) CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**12** That BSR/ASHRAE/ICC/USGBC/IES Addendum *f* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 22-0-1[[12]](#footnote-12)CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**13** That BSR/ASHRAE/ICC/USGBC/IES Addendum *L* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 22-0-1[[13]](#footnote-13)CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**14** That BSR/ASHRAE/ICC/USGBC/IES Addendum *o* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 22-0-1[[14]](#footnote-14)CNV

It was moved by Doug Fick and seconded by Rusty Tharp:

**15** That BSR/ASHRAE/ICC/USGBC/IES Addendum *aq* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, be approved for publication.

**MOTION PASSED.** 22-0-1[[15]](#footnote-15)CNV

# 9. SPLS Report

The SPLS Report was presented by SPLS Chair, Doug Fick. For more information regarding this report please see [Attachment B](#AttB).

It was moved by Doug Fick:

**16** That proposed changes to the TPS for Guideline 20, *Documenting HVAC&R Work Processes and Data Exchange Requirements,* be approved as shown in Attachment A of the SPLS Report.

**MOTION PASSED.**  22-0-0 CNV

It was moved by Doug Fick:

**17** That proposed changes to the TPS for Standard 62.2-2019, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings,* be approved as shown in Attachment B of the SPLS Report.

**MOTION PASSED.**  22-0-0 CNV

It was moved by Doug Fick:

**18** That proposed changes to the TPS for SSPC 90.2, *Energy Efficient Design of Low-Rise Residential Buildings,* be approved as shown in Attachment C of the SPLS Report.

**MOTION PASSED.**  22-0-0 CNV

It was moved by Doug Fick:

**19** That proposed changes to the TPS for Standard 229, *Protocols for Evaluating Ruleset Implementation in Building Performance Modeling Software,* be approved as shown in Attachment D of the SPLS Report.

**MOTION PASSED.**  22-0-0 CNV

It was moved by Doug Fick:

**20** That the following change to the membership roster for SSPC 34, Designation and Safety Classification of Refrigerants, be approved:

a. Change of Status of Sarah Kim from Vice Chair and PCVM-Producer/Refrigerant on the Flammability Subcommittee and Chair of the on the Designation and Nomenclature Subcommittee to Chair and PCVM-Producer/Refrigerant for a two-year term beginning July 1, 2022 and ending June 30, 2024.

**MOTION PASSED.** 19-0-3[[16]](#footnote-16) CNV

It was moved by Doug Fick:

**21** That the following change to the membership roster for SSPC 62.1, *Ventilation and Acceptable Indoor Air Quality,* be approved:

a. Change of Status for Brendon Joseph Burley from Co-Vice Chair and PCVM-Designer/Builder and Chair of the Ventilation Subcommittee to Chair and PCVM-Designer/Builder for a four-year term beginning July 1, 2022 and ending June 30, 2026.

**MOTION PASSED.**  22-0-0 CNV

It was moved by Doug Fick:

**22** That Standard 205, *Representation of Equipment Performance Data for HVAC&R and Other Facility* *Equipment*, be placed on continuous maintenance (CM) upon publication.

**MOTION PASSED.** 21-0-1[[17]](#footnote-17) CNV

It was moved by Doug Fick:

**23** That Standard 514P, *Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards*, be placed on continuous maintenance (CM) upon publication.

**MOTION PASSED.** 21-0-1[[18]](#footnote-18) CNV

# 10. PPIS

The SRS Report was presented by PPIS Chair, Robert Burkhead. For more information regarding this report please see [Attachment C](#AttC).

It was moved by Bob Burkhead:

**24** That motions 1 – 5 in the PPIS report be approved via consent agenda.

**MOTION PASSED.** 22-0-0 CNV

*Secretary’s note: PPIS motions 1 – 5 related to proposed changes to PASA, ROB, StdC Reference Manual and the PC Guide to PASA.*

It was moved by Bob Burkhead:

**25** That ASHRAE jointly sponsor ASHRAE Standard 240P, *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building, Design, Construction and Operation,* with ICC (International Code Council) and ASHRAE as the lead cosponsor following ASHRAE’s ANSI development procedures.

**MOTION PASSED.** 22-0-0 CNV

It was moved by Bob Burkhead:

**26** That ASHRAE jointly sponsor ASHRAE Standard 232P, *Schema-Based Building Data Model Protocols,* with IBPSA (International Building Performance Simulation Association) and ASHRAE as the lead cosponsor following ASHRAE’s ANSI development procedures.

**MOTION PASSED.** 22-0-0 CNV

# 11. SRS

The SRS Report was presented by SRS Chair, Susanna Hanson. For more information regarding this report please see [Attachment D](#AttD).

It was moved by Susanna Hanson:

**27** That ASHRAE Guideline 32-2018, *Management for Sustainable, High-Performance Operations & Maintenance,* be approved for revision and a revision project committee be formed.

**MOTION PASSED.**  22-0-0, CNV

# 12. CIS

CIS Chair, Pat Graef provided and update on CIS activities as shown in [Attachment E](#AttE). There were no motions for StdC approval.

# 13. ILS/ISAS

ILS/ISAS Chair, Dennis Knight provided and update on ILS/ISAS activities as shown in [Attachment F](#AttF). There were no motions for StdC approval.

# 14. Ongoing Business

Building Decarbonization – Standards Committee received a report from a building decarbonization Ad Hoc that contains multiple considerations and recommendations for the society and the Building Decarbonization Task Force. These recommendations span multiple areas within the society.

# 15. MBOs

StdC reviewed the MBOs as shown in [Attachment G](#AttG).

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# 16. Recess

The Standards Committee meeting recessed at 11:30 am ET.

**17. Call to Order**

The meeting of Standards Committee was called to order by incoming and acting StdC Chair Susanna Hanson on Wednesday, Wednesday, June 29, 2022, 7 at 7:30 am ET in the Grand Centre room of the Sheraton Toronto hotel.

Members of the committee, staff and guests were greeted. The attendees were as noted above.

# 18. Chair’s Report

Incoming Chair, Susanna Hanson, informed StdC that Operations did not vote on the policy changes proposed by PPIS and will consider them during its fall meeting.

# 19. SPLS Report

The June 28, 2022 SPLS report was presented by Doug Fick. For more information regarding this report, please see [Attachment H](#AttH).

It was moved by Doug Fick:

**28** That the proposed TPS for SSPC 100, *Energy Efficiency in Existing Buildings*, as shown in Attachment A of the June 28, 2022 SPLS Report.

**MOTION PASSED.**  19-1[[19]](#footnote-19),1[[20]](#footnote-20), CNV

It was moved by Doug Fick:

**29** That the proposed TPS for Standard 191, *Standard for the Efficient Use of Water in Building Mechanical Systems*, as shown in Attachment B of the June 28, 2022 SPLS Report.

**MOTION PASSED.**  20-0-1[[21]](#footnote-21), CNV

# 20. PPIS Report

The June 28, 2022 PPIS report was presented by Bob Burkhead. For more information regarding this report, please see [Attachment I](#AttI).

It was moved by Bob Burkhead:

**30** That the following Title, Purpose and Scope (TPS) be approved and that a new Guideline Project Committee be formed:

**Title:** Method of Testing In-Room and HVAC-duct mounted Devices and Systems and In-Room devices for Particle and Microorganism Removal or Inactivation in a Chamber with a Recirculating Duct System

**Purpose:** The standard provides a method of test for evaluating in room HVAC-duct mounted devices and in-room devices and systems for particle and microorganism removal or inactivation in a chamber with a recirculating duct system.

**Scope:**

**2.1** The method of test specifies specific particle or selected indicator microorganisms in the test chamber and defines procedures for generating the particles or bioaerosols required for the method of test.

**2.2** This standard provides a method for counting the number of specific particles or viable microorganisms in the chamber to calculate the elimination efficiency for each specific particle or microorganism.

**2.3** This standard establishes minimum performance specifications for the equipment required to conduct the tests, defines test methods as well as the calculation and reporting of results obtained from the test data, and establishes a reporting system to be applied to HVAC-duct mounted devices and in-room devices and systems covered herein.

**2.4** This method of test requires a chamber with a recirculating duct system.

**2.5** This standard does not address the health and safety effects of operating devices and systems in an occupied room.

**MOTION PASSED.**  20-0-1[[22]](#footnote-22) CNV

It was moved by Bob Burkhead:

**31** That the following Title, Purpose and Scope (TPS) be approved and that a new Guideline Project Committee be formed:

**Title:** Method of Test for Assessing the Gas-Phase Performance of Air Cleaning Devices and Systems in a Duct-Chamber Apparatus

1. **Purpose:** To provide a laboratory test method for evaluating air cleaning devices for challenge gas removal in a combined duct-chamber system with continuous recirculation.

**2. Scope:**

**2.1** This standard specifies a duct-chamber test method for measuring the performance of in-duct and in-room air cleaning devices with continuous recirculation through the duct and chamber.

**2.2** The test method measures the performance of air cleaning devices for removing challenge gases.

**2.3** This test method is conducted at elevated challenge gas concentrations (relative to ventilation applications) and therefore should be used to compare devices rather than directly predict performance in real world applications. The challenge gas and likely byproducts will be measured over time.

**2.4** Air cleaner performance is defined as the total impact of the air cleaner on the challenge gas in the chamber air and including any gaseous or particulate byproducts.

**2.5** This standard provides performance specifications for the equipment and measurements required to conduct the test method, defines procedures for calculating and reporting results and provide a results reporting system.

**2.6** This standard does not address the health and safety effects of operating devices and systems in an occupied room.

**MOTION PASSED.**  21-0-0 CNV

# 21. Next Meeting/Closing Items

Next Meetings:

* July Training and approve 90.1 addenda for publication – TBD
* 2022 Fall Meeting – TBD

# 22. Adjournment

The Standards Committee meeting adjourned at approximately 8:30 am ET.

# 23. Attachments

Attachment A



Attachment B



Attachment C



Attachment D



Attachment E



Attachment F



Attachment G



Attachment H



Attachment I



1. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-1)
2. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-2)
3. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-3)
4. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-4)
5. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-5)
6. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-6)
7. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-7)
8. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-8)
9. Paul Lindahl, Justin Prosser and Rick Heiden abstained because they are members of the SSPC. [↑](#footnote-ref-9)
10. Jay Kohler voted against approval of addenda cq to 90.1 because there were 13 negative votes, 8 of which were unresolved. The summary sheet indicated that the objections could be resolved with addition of a note. Waiting for a CMP to resolve the issue means that the confusion pointed out by the negative voters means will remain in the interim. Bill Walter, Mike Gallagher, Craig Wray, Larry Markel, Jim Lutz, Pat Graef, and Jay Kohler also voted no because they agreed with Jay. [↑](#footnote-ref-10)
11. Rick Heiden, Paul Lindahl and Justin Prosser abstained because they are members of the SSPC. [↑](#footnote-ref-11)
12. Larry Schoen abstained because he is a member of the SSPC. [↑](#footnote-ref-12)
13. Larry Schoen abstained because he is a member of the SSPC. [↑](#footnote-ref-13)
14. Larry Schoen abstained because he is a member of the SSPC. [↑](#footnote-ref-14)
15. Larry Schoen abstained because he is a member of the SSPC. [↑](#footnote-ref-15)
16. Julie Majurin, Jay Kohler and Bill Walter abstained because they are current or recent past members of the SSPC. [↑](#footnote-ref-16)
17. Chip Barnaby abstained because he is a member of the SPC. [↑](#footnote-ref-17)
18. Paul Lindahl abstained because he is a member of the SPC. [↑](#footnote-ref-18)
19. Larry Schoen voted no stating, “Emissions in the title does not clarify that the intention is GHG emissions. There are other pollutants that buildings are responsible for that are not GHG. The title s/b crystal clear. Adding “existing” or measured performance in the title would be clearer. I understand that the PC believes it is implicit. The phrase “… for which the energy use consumption and emissions targets do not include those processes.” is unnecessary and unclear. I think it s/b deleted. Terminology s/b consistent and broad enough to describe the intention of the scope: either GHG or carbon equivalent s/b used throughout.” [↑](#footnote-ref-19)
20. Craig Wray abstained stating “I no longer understand the purpose of SPLS reviewing or approving the proposed TPS wording for PPR.” [↑](#footnote-ref-20)
21. Jim Lutz abstained because he is a member of the committee. [↑](#footnote-ref-21)
22. Rusty Tharp abstained without reason. [↑](#footnote-ref-22)