

STANDARDS COMMITTEE MINUTES

**ASHRAE 2026 Annual Meetings
June 27, 2026 and July 1, 2026**

These are the official minutes approved by StdC.

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Standards Committee Action Items
As of June 2026

2026			
AI#	Action Item	Assigned	Status
1	None.		

1. Call to Order and Introductions

The Standards Committee 2026 Annual Meeting was called to order by StdC Chair, Adrienne Thomle, on Saturday, June 27, 2026, 8:00 am PST.

Introductions

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

Members Present

Adrienne Thomle, Chair
Jennifer Pille
Anthony Abate*
Omar Abdelaziz
Chip Barnaby
Hoy Bohanon
Kelley Cramm
Abdel K. Darwich
Drake Erbe
Marcus Hassen
William Healy
Jaap Hogeling
Satish Iyengar
Phillip A. Johnson
Tatsuro Kobayashi
Kenneth A. Monroe
Philip J. Naughton*
Kathleen Owen*
Michael Patton
Karl Peterman
Christopher J. Seeton
Rusty Tharp
Paolo M. Tronville
Douglas Tucker
Tom Watson
David Yuill
Pat Marks, *Board ExO**
**June 27th only*
***July 1st only*

Members Not Present

Coleman Brumley
Paul A. Lindahl, Jr.

Staff Present

MyKah Jones, *AMOS-N**
Ryan Shanley, *GMOSC*
Tanisha Meyers-Lisle, *MOS-A*
Klaudette Spencer, *SAS*

Guests Present

Brendon Burley
Jayson Bursill**
Jim Earley**
Doug Fick
Derrick Knight
John Luke*
Justin Prosser
Steve Rosenstock**
Nadya Tremblay*

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

The Chair thanked members for their standards involvement.

4. G-MOSC Report

Ryan introduced our newest employee, Mykah Jones, Asst. Manager of Standards-National. Ryan noted there were no appeals or complaints of action/inaction to report.

5. BOD Officials' Reports

Pat Marks, BOD ExO, provided a presentation with future ASHRAE updates. See Attachment A.

6. Approval of Minutes

No minutes were presented for approval at this meeting. Spring Minutes 2026 were approved using the balloting feature of the OSR in order to align with the Standards Committee MBOs.

7. Review of Action Items

None.

8. Publication Drafts

None.

9. SPLS Report

SPLS Chair, Hoy Bohanon presented the April 23, 2026, May 28, 2026 and June 28, 2026 SPLS reports. The April 23rd SPLS report contained only information items. The May 28th report contained three TPS changes. The June 26th report contained one TPS change. For more information regarding these reports, See Attachment B.

- 1 Hoy Bohanon recommended that proposed changes to the TPS for Standard 62.2-2025, (Addendum *b*), *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, be approved as shown in the May 28th report. See Attachment B.

MOTION PASSED. 24-1-1¹

- 2 Hoy Bohanon recommended that proposed changes to the TPS for Standard 90.1-2025 (Addendum *e*), *Energy Standard for Sites and Buildings Except Low-Rise Residential Building*, be approved as shown in the May 28th report. See Attachment B.

DISCUSSION: Several members questioned whether the proposal would expand Standard 90.1 beyond its intended scope and whether sufficient justification had been provided for the change. Karl raised concerns about scope creep, asking whether Standard 90.1 should broaden its scope to address topics already covered by other standards. He questioned the need to revise the Title, Purpose, and Scope (TPS), stating that the proposal did not clearly explain what is wrong with the current TPS or why a change is necessary. He also suggested that adding requirements to the standard may not require modifying the TPS. Chris Seeton agreed with Karl, arguing that provisions addressing the flow of energy to and from a building extend beyond traditional building requirements and therefore may not belong within the standard. Drake expressed concern that the proposed language could unintentionally expand the site

¹ Adrienne Thomle abstained as StdC Chair. Satish Iyengar voted against the motion: On design considerations of 62.2 is that that airbnb(which is short term service occupancy) for residential buildings are definitely not restrained and cannot be included.

boundary addressed by the standard and potentially open the door to requirements related to EV charging, further broadening the standard's scope. Kelley also opposed the proposal, aligning with concerns about expanding the standard beyond its current intent.

MOTION PASSED. 16-7-3²

- 3 Hoy Bohanon recommended that proposed changes to the TPS for Standard 244P, *Sustainability Assessment for Mechanical, Electrical, and Plumbing Products*, be approved as shown in the May 28th report. See Attachment B.

MOTION PASSED. 24-0-2-2³

- 4 Hoy Bohanon recommended that proposed changes to the TPS for Guideline 32, *Management for Sustainable High-Performance Operations and Maintenance*, be approved as shown in the June 26th report Attachment B.

MOTION PASSED. 25-0-1⁴

10. PPIS Report

PPIS Chair, Karl Peterman, presented the June 26, 2026, report to Standards Committee. For more information regarding this report, please see Attachment C.

- 5 Karl Peterman recommends the following Title, Purpose and Scope (TPS) be approved and a new Standard Project Committee be formed.

Title: Standards for Minimum Energy Requirements for ~~New~~ Low-Rise Residential Buildings and ~~Major Renovations~~

Purpose: The purpose of this standard is to provide cost-justified minimum requirements for the energy-efficient design and construction of new residential buildings three stories or less above grade and for major renovations to existing residential buildings three stories or less above grade, considering first costs, economic impacts, and expected energy savings. This standard is intended to provide a simple, prescriptive path to achieve the objectives for a minimum standard which balances first cost and operational costs for an affordable housing solution.

Scope:

2.1 This standard applies to:

- a. new residential buildings three stories or less above grade;

² Adrienne Thomle abstained as StdC Chair. Drake Erbe and Doug Tucker abstained as members of the PC. Satish Iyengar, Jennifer Pille, Marcus Hassen, Chris Seeton, Karl Peterman and Kelley Cramm voted negatively. Karl Peterman provided his reason for voting no - My rationale for negative is that I was not convinced based on information provided that a change was necessary or of value. I remain opposed to what I see as scope creep by 90.1. I also did not hear that adequate consideration was given to harmonization with other ASHRAE standards and how they may or may not be affected.

³ Adrienne Thomle abstained as StdC Chair. Paul Lindahl abstained. This motion was passed by StdC via letter ballot prior to the conference. Ballot ended on June 12th.

⁴ Adrienne Thomle abstained as StdC Chair.

- b. additions to residential buildings three stories or less above grade where new energy-related assemblies, systems, or equipment are installed; and
- c. major renovations to existing residential buildings three stories or less above grade where the project includes substantial replacement, alteration, reconfiguration, or upgrade of energy-related assemblies, systems, or equipment.

2.2 This standard provides cost-justified minimum requirements for the design, construction, installation, and replacement, as applicable, of:

- a. building thermal envelope components;
- b. air leakage control measures;
- c. heating, ventilating, and air-conditioning systems;
- d. service water-heating systems;
- e. lighting systems;
- f. controls associated with covered systems; and
- g. other specifically identified energy-related residential building components and systems.

2.3 This standard applies to detached single-family houses, detached two-family houses, townhouses, and other residential buildings three stories or less above grade, and to residential portions of mixed-use buildings within the height limitations of this standard.

2.4 This standard does not apply to:

- a. transient lodging;
- b. buildings more than three stories above grade;
- c. nonresidential occupancies except residential portions of mixed-use buildings within the scope of this standard; or
- d. ordinary maintenance and repair activities that do not materially affect building energy use.

2.5 This standard shall not be used to abridge safety, health, environmental, or other applicable code requirements.

DISCUSSION: Some members expressed the need for a clearly defined residential stretch energy standard. There were concerns with overlap with IECC, IRC, 90.2 and 189.1, harmonization across standards and codes should be at the forefront. Questions were raised regarding market demand, stakeholder participation and resource allocation. The proposer explained that the committee considered including cost-effectiveness in the title but chose to maintain naming consistency with 90.1. He indicated that cost considerations could be addressed within the scope and purpose. He also stated that no current marked document adequately addresses residential minimum energy requirements in the manner being proposed. He stated DOE has expressed interest in supporting and assisting with the development of this standard.

It was moved by Michael Patton and Rusty Tharp to amend the TPS as shown in strikethrough.

MOTION AMENDED: 25-0-1⁵

It was moved by Karl Peterman to approve the TPS as amended.

MOTION PASSED. 24-0-2

⁵ (1st vote) Motion to approve amendment: Adrienne Thomle abstained as StdC Chair. (2nd vote) Motion to approve as amended: Adrienne Thomle (StdC Chair) and Jennifer Pille abstained. Jennifer supports the concept and would like to see plans for 90.2

- 6 Karl Peterman recommends that the PC Guide to PASA, Voting and Appendix 8, Approval Sequence of Standards Related Actions, be approved as shown below:

VOTING (See PASA 7.2.4, 7.5, 7.2.5, and 7.2.6)

In order to take any type of vote the Chair (Project Committee or Subcommittee) needs to determine if quorum has been met. Quorum has been met when more than 50% of the voting members (Project Committee or Subcommittee) are at the meeting. PASA voting requirements depend on the motion types. The motion types are as follows:

- A. Standards Actions Motions – these include votes for publication public review, **changes to an approved TPS**, and publication with knowledge of unresolved objectors (commenters/negative PC voters). Standards Action votes can only occur in meetings that have been properly announced. Standard Action votes may also be conducted via letter ballot. Standards Actions require that all voting members, present or absent, be given the opportunity to vote, and the opportunity to change their vote in the event of a recirculation letter ballot. A written response to a negative voter (with reason) on a letter ballot needs to be provided, advising the negative voter of the disposition of the objection, reason(s) therefore. And attempts at resolution. Chairs need to return a ballot indicating whether or not their vote is a yes, no or abstention vote or the ballot will be recorded as not returned. Chair not voting is not an option for standards actions motions. Approval of these motions requires a majority of the voting membership, voting in the affirmative.
- B. Non-Standards Actions Motions – these include **approval of TPS changes which are not part of a public review draft**, approval of work plans, straw votes on draft language, user manual requests, responses to continuous maintenance proposals, responses to public review comments, etc. These do not require that all voting members be given the opportunity to vote. For these matters, approval requires affirmative votes by a majority of PCVMs present.

Generally, a Chair **does not vote (abstains)** unless voting changes the outcome of the ballot. If the Chair does not submit a ballot in letter ballots the vote will be recorded as unreturned.

Appendix 8 – APPROVAL SEQUENCE of STANDARDS RELATED ACTIONS

Revise a Title, Purpose and Scope (TPS)						
Recommend revised TPS	PC	SPLS	*Majority Standrds Action	StdC	*Majority	

MOTION PASSED. 25-0-1⁶

11. CIS Report

Doug Tucker reported on CIS activities.

CIS last met in August 2025. CIS meets as needed as determined by the development schedule of the model code bodies. I anticipate that CIS will meet later this summer to conduct training on CIS procedures for new members and as a refresher for existing members, and to prepare for the upcoming

⁶ Adrienne Thomle abstained as StdC Chair.

ICC Group A codes comment period. This will include the 2030 editions of the IMC, IRC-M, and IBC-FS. The comment period opens in November 2026 and closes on January 12, 2027. We will also discuss ASHRAE involvement in the 2030 IECC development process, which is written by committees separately from the ICC hearing process.

12. SRS Report

- 7 SRS Chair, Jennifer Pille presented the June 24, 2026 report. For additional information, please see Attachment D.

Jennifer I. Pille recommends that ANSI/ASHRAE Standard 29-2024, Method of Testing Automatic Ice Makers, be approved for revision and a revision project committee be formed.

MOTION PASSED: 25-0-1⁷

13. GTIC Report

Jennifer Pille stated updates will be given on Wednesday, June 30th.

14. Unfinished/New Business

Adrienne Thomle provided a harmonization update. See Attachment E.

15. Recess

The Standards Committee meeting recessed at 11:00 am CDT.

16. Call to Order

The meeting of Standards Committee was called to order by StdC Chair Adrienne Thomle on Wednesday, June 30, 2026, at 7:30 am CDT.

Members of the committee, staff, and guests were greeted. The attendees were as noted above. Chairwoman Adrienne Thomle, thanked Standards members for their service and dedication to ASHRAE and acknowledged our outgoing and incoming standards committee members.

Adrienne provided an update from SSPC 90.2 about the recent TPS approval, *Standards for Minimum Energy Requirements for Low-Rise Residential Buildings*. SSPC 90.2 sent a letter expressing a strong desire to develop the new standard rather than create a new PC. Doug Fick (proposer) stated he would like to start from a fresh slate. Karl Peterman and Drake Erbe agree. Chip Barnaby stated the new standard would focus on cost effectiveness. But, if 90.2 has the infrastructure to do that then maybe have them do it. Doug Fick, expressed that DOE supports the development of this new TPS.

Adrienne announced the death of Michael Vaughn, former ASHRAE Staff.

17. Publication Drafts

It was moved by Hoy Bohannon and seconded by Kenneth Monroe,

⁷ Adrienne Thomle abstained as StdC Chair.

- 8 That BSR/ASHRAE Addendum z to ANSI/ASHRAE Standard 62.2-2025, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*

MOTION PASSED: 22-0-1⁸

18. SPLS Report

SPLS Chair, Hoy Bohanon presented the June 30, 2026, report to Standards Committee. For additional information regarding this report, please see Attachment B.

- 9 Hoy Bohanon recommends that proposed changes to the TPS for Standard 242P, *Standard Method for Calculation of Building Operational Greenhouse Gas Emissions*, be approved as shown in Attachment B.

MOTION PASSED: 22-0-1⁹

- 10 Hoy Bohannon recommends that Standards Committee approve discontinuation of the revision of Standard 35-2014 (RA2024), *Method of Testing Refrigerant Driers and Desiccant Materials*, and that SPC 35 be disbanded.

MOTION PASSED: 22-0-1¹⁰

19. PPIS Report

PPIS Chair, Karl Peterman presented the June 30, 2026, report to Standards Committee. For more information regarding this report, please see Attachment C.

- 11 Karl Peterman recommended that the following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed.

Title: Acceptable Indoor Air Quality for Crewed Spacecraft and Habitats

Purpose: The purpose of this guideline is to specify the recommended indoor air quality that an environmental control and life support system for a crewed off-planet spacecraft or habitat should provide to be acceptable to human occupants and to minimize adverse health effects. This guideline is intended for application in new commercial spacecraft and habitats.

Scope:

This guideline applies to spaces intended for human occupancy within commercial spacecraft and habitats operated in microgravity and in a surrounding vacuum. This guideline provides recommendations for the design, installation, performance verification, and operation and maintenance of air cleaning and air conditioning systems. This guideline contains recommendations related to certain contaminants and contaminant sources including, but not limited to, crew members, experiment processes, docked vehicle atmosphere mixing, material off-gassing, moisture, and biological growth.

⁸ Adrienne Thomle abstained as StdC Chair.

⁹ Abdel Darwich voted negative, he believes an energy standard should not cover IAQ. Adrienne Thomle abstained as StdC Chair.

¹⁰ Adrienne Thomle abstained as StdC Chair.

MOTION PASSED. 22-0-1¹¹

- 12 Karl Peterman recommended that the following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed.

Title: Application of the Commissioning Process to Semiconductor Facilities

Purpose: The purpose of this guideline is to establish a standardized, scalable, and rigorous commissioning expectations for semiconductor facilities. It defines procedures that ensure critical systems, supporting high-precision, cleanroom, and mission-critical environments, are designed, installed, verified, and operated in alignment with the Owner's Project Requirements (OPR). The guideline supports both initial commissioning and ongoing performance management, enabling reliable operations, process quality, energy efficiency, and regulatory compliance across the facility lifecycle.

Scope:

This guideline applies to the commissioning and performance validation of new, renovated, and existing semiconductor manufacturing environments. It includes all phases of the facility lifecycle, from conceptual design through occupancy, tool integration, and ongoing commissioning. The guideline is applicable to various types of semiconductor operations, including but not limited to:

- a. Wafer fabrication facilities (Fabs)
- b. Research and development cleanrooms
- c. Tool installation and process bays
- d. Sub-fab infrastructure and interstitial mechanical zones
- e. Packaging, assembly, and test environments.

MOTION PASSED: 22-0-1¹²

20. CIS Report

No new update.

21. GTIC Report

Jennifer Pille presented a process/flowchart for regional adoption/adaptation. See Attachment F.

Justin Prosser moved to approve the distribution of attachment. Drake Erbe seconded.

DISCUSSION: There was no consensus among the Standards Committee members to distribute this letter because concerns were raised that sufficient time was not provided for review and comment. Staff advised the proposers that GTIC may distribute the letter on its own behalf, since Standards Committee approval is not required.

Justin Prosser rescinds the motion.

22. Unfinished Business

None.

¹¹ Phil Johnson and Abdel Darwich abstained. Adrienne Thomle abstained as StdC Chair.

¹² Adrienne Thomle abstained as StdC Chair.

23. New Business

None.

24. MBOs

Adrienne Thomle gave a brief update of 2025-2026 MBOs, mostly all have been completed. Staff will be working on developing training for members in the near future.

Jennifer Pille presented her list of MBOs for SY 2026-2027. See Attachment G.

25. Next Meeting/Closing Items

Fall Meeting – TBD.

26. Adjournment

The Standards Committee adjourned at 9:00 am CDT.

27. Attachments

Attachment A



ASHRAE Leadership
Presentation (2026 Ar

Attachment B



SPLS Report to StdC
APR_23_2026.docx



SPLSReport to StdC
MAY_28_2026.docx



SPLSReport to StdC
JUNE_26_2026.docx



SPLSReport to StdC
JUNE_30_2026.docx

Attachment C



PPIS Report to StdC_
June 30 2026.docx

Attachment D



SRS report to
StdC_Letter Ballot_SU

Attachment E



PCIS update
StdC_TC.pptx

Attachment F



Std C
MBOrev01June2026.p

Attachment G



Copy of Standards
Committee MBOs_20;