



**TECHNOLOGY  
COUNCIL  
Winter Conference Chicago  
January 24, 2024**

*NOTE: These are not official minutes until approved by Technology Council.*

## MOTIONS

Technology Council Winter Conference Chicago Motions  
January 24, 2024

Motion Number	Motion
1	<p>Moved as a consent motion:</p> <p>Technology Council recommend to the Board of Directors that proposed changes to the Procedures for ASHRAE Standards Actions (PASA) within Section 4. 4.2.2, <i>Standards Committee Subcommittees</i>; 4.2.2.1 <i>International Standards Advisory Subcommittee (ISAS)</i>; 4.2.2.2, <i>Intersociety Liaison Subcommittee (ILS)</i> and 4.2.2.6, <i>Standards Reaffirmation Subcommittee (SRS)</i>, be approved as shown:</p> <p><b>4.2.2 Standards Committee Subcommittees</b></p> <p>The Standards Committee (StdC) has the following subcommittees: a) the International Standards Advisory Subcommittee (ISAS), b) the Intersociety Liaison Subcommittee (ILS) c) the Planning, Policy, and Interpretations Subcommittees (PPIS), d) <u>b</u>) the Standards Project Liaison Subcommittee (SPLS), <u>ec</u>) the Code Interaction Subcommittee (CIS), and <u>fd</u>) the Standards Reaffirmation Subcommittee (SRS).</p> <p><b>4.2.2.1 International Standards Advisory Subcommittee (ISAS)</b></p> <p>ISAS is responsible for monitoring, reporting and submitting recommendations to the Intersociety Liaison Subcommittee concerning ASHRAE’s regional and international standards activities. ISAS is comprised of StdC and non-StdC members with knowledge of International Standards Development.</p> <p><b>4.2.2.2 Intersociety Liaison Subcommittee (ILS)</b></p> <p>ILS oversees the Society’s participation in the standards work of other standards development organizations, the American National Standards Institute (ANSI), and ANSI’s Technical Advisory Groups on ISO and IEC standards. ILS is comprised of StdC members only.</p> <p><b>4.2.2.6 Standards Reaffirmation Subcommittee (SRS)</b></p> <p>SRS serves as the project committee for reaffirmation, withdrawal, or non-substantive revisions of existing ASHRAE Standards or Guidelines.</p> <p>SRS is a project committee of at least five (5) members, including at least three members of the StdC and applicants responding to an annual call for members posted in ASHRAE <i>Standards Actions</i>. <u>When possible, members shall also have international standards experience.</u> The Chair and Members are appointed annually by the Standards Committee Chair. SRS acts, in limited circumstances, as a project committee for existing standards and is subject to the rules of project committees for reaffirmations, withdrawals, and revisions only to update references, that are not themselves reaffirmations</p>

and do not cause a substantive change to the standard. SRS must comply with all ANSI requirements for openness, balance, and due process. SRS may act in lieu of a PC, with the advice of the cognizant TC/TG/TRG, to recommend, reaffirmation, withdrawal or revision of an existing standard or guideline based on updated references (that do not cause a substantive change to the standard) or add a second system of units to an existing standard, thereby making the existing standard useable in either SI or IP units.

SRS oversees the Society's participation in the standards work of other standards development organizations, the American National Standards Institute (ANSI), and ANSI's Technical Advisory Groups on ISO and IEC standards.

SRS is responsible for monitoring, reporting and submitting recommendations to the Standards Committee for the adoption of international standards activities by ASHRAE.

Technology Council recommends to the Board of Directors that proposed changes to PASA 7.2.3, *Quorum Requirements* be approved as shown:

**PASA Section 7.2.3, *Quorum Requirements***

**7.2.3 Quorum Requirements**

To conduct standards-related business at a meeting of a project committee or its subcommittees with an official roster, StdC or its subcommittees, a quorum must be present. A quorum exists if a majority of the voting membership is present.

Technology Council recommends to the Board of Directors that proposed changes to PASA Annex B6 *Notification of Procedures* and Annex B8, *Consideration of Appeals*, be approved as shown below:

**B6 NOTIFICATION PROCEDURES**

**B6.3** The MOS shall acknowledge receipt of the appeal, copy acknowledgement to the Chief Staff Officer, notify the President, and send copies of the appeal to the Appeals Board Chair and to the Chairs of Technology Council, Standards Committee, and the Project Committee (PC) which developed or revised the Standard or Guideline, if applicable. Upon receipt of the appeal, an Appeals Panel will be established in accordance with Section B8 for the purpose of determining if the appeal will be heard or if the appeal will be dismissed without a hearing or upheld without a hearing.

**B8 CONSIDERATION OF APPEALS**

	<p><b>B8.3 Panel Consideration of Adjudicating the Appeal Without a Hearing</b></p> <p>The Appeals Panel shall decide if the appeal shall be dismissed without a hearing. <u>In order to assess whether the appeal should be dismissed, the Appeals Panel Chair may request a preliminary rebuttal from the cognizant PC Chair. The preliminary rebuttal shall be shared with the Appellant(s) prior to the issuance of a decision by the Appeals Panel. No written response to the preliminary rebuttal is permitted.</u> The Appeals Panel Chair or the Chairs designee shall notify the ASHRAE President, the Appellant and the chair of the cognizant PC in writing of the decision. Non-compliance with Section B5 or lack of grounds for an appeal may be reasons for dismissal.</p>
<p>2</p>	<p>Technology Council recommends to the Board of Directors that the Rules of the Board 1.201.004.9, Indoor Air Quality or Ventilation Standards, be revised as follows:</p> <p><del>1.201.004.9 Indoor Air Quality or Ventilation Standards. Any existing and all future ASHRAE indoor air quality or ventilation code-intended standards must meet the following requirements:</del></p> <ul style="list-style-type: none"> <li><del>A. The standard shall specify concentration limits of only those specific contaminants for which a nationally or internationally recognized authority (such as US EPA, OSHA or the World Health Organization) has established a maximum permissible concentration limit and for which standardized test procedures have been established. Nationally or internationally recognized authorities and procedures may be those developed by ANSI consensus procedures for private standards-setting organizations, those established by statute, or those duly adopted regulations issued by governmental agencies.</del></li> <li><del>B. The standard may specify means and methods for limiting concentration of pollutants, provided they are related to contaminants normally considered in the design of HVAC systems serving the relevant space type.</del></li> <li><del>C. The standard shall not require the measurement of contaminant or other airborne concentrations except those that can be measured using standardized test equipment and procedures in accordance with ASHRAE Standard 111 (or its successor) or other consensus Methods of Test. Standardized test equipment is defined as equipment normally available in the HVAC&amp;R industry to test and balance technicians or that is common in building ventilation assessment.</del></li> <li><del>D. The standard shall not make any claims or guarantees that compliance will provide health, comfort or occupant acceptability, but shall strive for those objectives, consistent with ASHRAE policy.</del></li> <li><del>E. The standard may contain factors for use in design of calculations such as mixing efficiencies and air change effectiveness, as long as it is the consensus of the standards-writing body that these factors are</del></li> </ul>

	<del>important to providing acceptable indoor air quality.</del>
<a href="#"><u>3</u></a>	<p>Technology Council <u>add the following</u> to Section 4.2b of the Technology Council Manual of Procedures:</p> <p>b. The size of the Position Document Committee should be no less than five (5) and no more than eight (8) members and provide a good cross-section of the technical aspects of the issue and perspectives of parties at interest. <u>In order for a Position Document Committee of greater than 8 members to be approved, the sponsoring committee must provide a technical justification that identifies critical topics to be included and demonstrate how important topics cannot be addressed with an 8-member committee.</u> The intent is that all members are classified as voting members.</p>
<a href="#"><u>4</u></a>	Technology Council recommend to the Board approval of the revised <i>Energy Efficiency in Buildings</i> Position Document(PD).
<a href="#"><u>5</u></a>	Technology Council reaffirm the <i>Building Decarbonization</i> PD with minor, editorial changes as shown in the Attachment.
<a href="#"><u>6</u></a>	Technology Council recommend to the BOD ExCom that a revision to the <a href="#"><u>Unvented Combustion Devices and Indoor Air Quality</u></a> position document be initiated.
<a href="#"><u>7</u></a>	<p>Technology Council appoint the following members to the <i>Unvented Combustion Devices and Indoor Air Quality</i> PD Committee:</p> <ul style="list-style-type: none"> <li>• Paul Francisco (CCRPC/Colorado State) (<b>Chair</b>) - General</li> <li>• Steve Emmerich (NIST) - Public</li> <li>• Rick Karg (Residential Energy Dynamics) - General</li> <li>• Frank Johnson (Gas Technology Institute) - Producer</li> <li>• Rebecca Olson (Minnesota Center for Energy and Environment) - General</li> <li>• Brett Singer (LBNL) – Public</li> </ul>
<a href="#"><u>8</u></a>	Technology Council reaffirm the <a href="#"><u>Filtration and Air Cleaning</u></a> PD.
<a href="#"><u>9</u></a>	Technology Council appoint the members below to the Refrigerants and their Responsible Use PD committee:
<a href="#"><u>10</u></a>	<p>The following Title, Purpose and Scope (TPS) be approved and a new Standard Project Committee be formed.</p> <p><b>Title:</b> Standard Method for Calculation of Building Operational Greenhouse Gas Emissions</p> <p><b>Purpose:</b> This standard provides a common methodology for the calculation of greenhouse gas (GHG) and carbon emissions of new and existing buildings. This standard provides a consistent procedure and data to be referenced by other standards that define methods of evaluation, verification, limitations, or targets for new and existing buildings.</p> <p><b>Scope:</b></p> <p><b>2.1</b> This standard covers:</p> <p>a. calculation methodology for determination and expression of building(s) GHG and carbon emissions associated with building</p>

	<p>operations including energy use; and</p> <p>b. calculation methodology for determination and expression of the building(s) GHG and carbon emissions associated with flows across the site boundary and off-site credited flows.</p> <p><b>2.2</b> This standard provides:</p> <ul style="list-style-type: none"> <li>a. Uniform method of calculation and minimum required level of rigor</li> <li>b. Identification of data required and calculations to be used</li> <li>c. Identification of reporting metrics to be used</li> <li>d. Definitions and Terminology</li> </ul> <p><b>2.3</b> This standard does not establish methods of evaluation, verification, GHG or carbon emission goals or limits, or provide design guidance or requirements for buildings.</p>
<p><a href="#">11</a></p>	<p>The following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed.</p> <p><b>Title:</b> Design, Installation and Commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings</p> <p><b>Purpose:</b> This guideline provides guidance for the design, installation and commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings.</p> <p><b>Scope:</b></p> <ul style="list-style-type: none"> <li>1. This guideline applies to central domestic electric heat pump hot water systems in new multifamily buildings.</li> <li>2. This guideline provides procedures and design factors; the requirements and installation factors; and the performance, commissioning and operational factors to be considered by the design engineer, contractor and maintenance personnel involved with these systems.</li> </ul>
<p><a href="#">12</a></p>	<p>The following Title, Purpose and Scope (TPS) be approved and a new Standards Project Committee be formed.</p> <p><b>Title:</b> Safety Standard for Transportation Refrigerating Systems</p> <p><b>Purpose:</b> This standard specifies safe design, construction, installation, and operation of refrigerating systems for use in transportation applications.</p> <p><b>Scope:</b></p> <ul style="list-style-type: none"> <li>1. This standard establishes safeguards for life, limb, health and property and prescribes safety requirements</li> </ul>

	<ol style="list-style-type: none"> <li>2. The design, construction, test, installation, operation, and inspection of mechanical refrigerating systems used in transportation applications</li> <li>3. Modifications, including replacement of parts or components if they are not identical in function and capacity</li> <li>4. Substitutions of refrigerants having a different designation</li> <li>5. This standard applies to refrigerating systems for the following applications <ul style="list-style-type: none"> <li>○ On road transport of goods</li> <li>○ Refrigerated rail units and refrigerated boxcar</li> <li>○ Self-contained marine</li> <li>○ Intermodal transport</li> <li>○ Passenger buses and trains</li> </ul> </li> <li>6. This standard does not apply to <ul style="list-style-type: none"> <li>○ Mobile air conditioning (MAC) systems within the scope of SAE J639</li> <li>○ Refrigerating and air conditioning systems integral to ships within the scope of ASHRAE Standard 26</li> <li>○ Any refrigerating or air conditioning system designed to be operated during air travel</li> <li>○ Refrigerating and air conditioning systems within scope of ASHRAE Standard 15</li> <li>○ Residential refrigerating and air conditioning systems within scope of ASHRAE Standard 15.2</li> </ul> </li> </ol>
<p><a href="#">13</a></p>	<p>ASHRAE jointly sponsor ANSI/ASHRAE Standard 205-2023, <i>Representation of Performance Data for HVAC&amp;R and Other Facility Equipment</i> with IBPSA and ASHRAE as the lead cosponsor following ASHRAE's ANSI development procedures.</p>
<p><a href="#">14</a></p>	<p>The Residential Buildings Service Award be presented at the Annual Plenary of the Annual Conference starting at the June 2024 plenary.</p>

**ACTION ITEMS**  
**Technology Council Winter Conference Chicago**  
**January 24, 2024**

<b>AI#</b>	<b>Responsibility</b>	<b>Status</b>	<b>Description</b>
<a href="#">1</a>	Staff	New	Send the Global HVACR Summit Action Item list to Tim Wentz to review.
<a href="#">2</a>	Staff	New	Circulate this list to all members in Tech Council.
<a href="#">3</a>	Steve Sill	New	Identify which items in the Global HVACR Summit Action Item list that Tech Council should be focusing on.
<a href="#">4</a>	Staff	New	Send Global HVACR Summit Action Item list with proposed assignments to the Society Planning Committee.
<a href="#">5</a>	Stephanie Reiniche	New	Talk to Joslyn Ratcliff about what software/web service PC chairs should use for document collaboration and/or storage so it complies with the rules.
<a href="#">6</a>	Standards	New	Collect information from the project chairs and SPLS Liaison about concerns with the publication process and provide to Staff.
<a href="#">7</a>	RAC	New	Make sure their strategic planning group does not absolve so that tracking of the initiatives can be reported.
<a href="#">8</a>	Wade Conlan	New	Relay that the previous survey was more grassroots oriented and less Tech Council oriented.
<a href="#">9</a>	Wade Conlan	New	Lead this ad hoc to determine how the CEBD work will flow within the Council.

**ACTION ITEMS**  
**Technology Council Fall Virtual Meeting**  
**October 09, 2023**

<b>AI#</b>	<b>Responsibility</b>	<b>Status</b>	<b>Description</b>
1	Stephanie Reiniche	Complete	Add formal communication for the HVAC summit to the leadership agenda.
2	Amber Thomas	Complete	Send out MBOs to TechC and PLC.

**ACTION ITEMS**  
**Technology Council Annual Meeting**



June 28, 2023

AI#	Responsibility	Status	Description
1	EHC	Complete	Connect with Paul Francisco and other standing committees who have stated an interest in being involved in the revision of the Unvented Combustion Devices and Indoor Air Quality PD.

**Action Items**

Technology Council Spring Virtual Meeting  
April 17, 2023

AI#	Responsibility	Status	Description
1	Amber	Complete	Send out the feedback on Society addressing AI technology.

**Action Items**

Technology Council Winter Conference  
Wednesday, February 8, 2023

AI#	Responsibility	Status	Description
1	Stephanie Reiniche	Complete	Post the old and revised Council MOP for review with a spreadsheet for comments. The posting will include post the Society Rules Committee (SRC) MOP template for reference.
2	REF-CPCC	Complete	Add the international members they want to engage into its MOP or Reference Manual.
3	Sarah Maston	Closed	Create a letter addressing the importance of DEI and the direct links.
4	Stephanie Reiniche	Complete	Add a DEI liaison report to future agendas.

**Action Items**

Technology Council Fall Virtual Meeting  
September 27, 2022

AI#	Responsibility	Status	Description
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1	Council Members	Complete	Provide feedback for future strategic plans to Ms. Thomle prior to the Ops meeting in October.
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**Minutes**  
Technology Council

<p><b><u>Voting Members Present:</u></b> Ashish Rakheja, Chair Wade Conlan, Vice Chair Carl Huber Christopher Phelan Costas Balaras Larry Smith Luke Leung Mike Pouchak Paul Francisco Richie Mittal Steve Sill Susanna Hanson Bill Bahnfleth – EHC Chair Olu Soluade – GTIC Chair Bill Murphy – RAC Chair Bill Healy – RBC Chair Steve Kujak – REF Chair Doug Fick – StdC Chair Jamie Bennett – TAC Chair</p> <p><b><u>Non-voting Present:</u></b> Rachel Romero – RBC Vice Chair</p>	<p><b><u>Staff</u></b> Stephanie Reiniche, DOT Ryan Shanley, SMOS Steve Hammerling, MOT Derrick Nesfield, MOSP Alice Yates, DOGA Amber Thomas, Administrative Assistant</p> <p><b><u>Guests</u></b> Jati Widiputra Chandra Sekhar Nolan Demos Kevin Gebke Katlyn Stoker Buzz Wright Daniel Russell David Roberts</p> <p><b><u>TechC Voting Absent:</u></b> Dru Crawley</p> <p><b><u>TechC Non-Voting Absent:</u></b> Marwa Zaatari -EHC Vice Chair Natascha Milesi-Ferretti – RAC Vice Chair Doug Scott - REF Vice Chair Kevin Mercer – TAC Vice Chair</p>
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**1. CALL TO ORDER/OPENING COMMENTS**

Chair Rakheja called the meeting to order at 9:00 A.M. CT. The commitment to care, the commitment to the Code of Ethics and the ASHRAE Core Values were shared during the meeting.

*Secretary's Note: Quorum was met with 19 voting members, including the Chair at the start of the meeting.*

*All reports referenced in the minutes are on Basecamp in the folder "2024-01-24 Winter Meeting Chicago."*

**2. REVIEW OF AGENDA**

A. Agenda Review

The agenda was approved as presented.

**3. MINUTES/ACTION ITEMS**

A. TechC Fall Meeting Minutes – 03A

It was moved by Susanna Hanson and seconded by Mike Pouchak that the Technology Council Fall Meeting minutes be approved.

Tech C Vote: 17-0-1<sup>1</sup>, CNV

**MOTION PASSED by Acclamation.**

B. Action Items

The action items were updated as shown above in the action item table.

**4. SUBCOMMITTEE REPORTS**

**A. Operations (OPS)**

Susanna Hanson, OPS Chair, presented the report. The report is posted on Basecamp as *04A OPS Report to Tech Council.docx*.

It was moved as a consent motion by Ms. Hanson that:

**M1**

Technology Council recommend to the Board of Directors that proposed changes to the Procedures for ASHRAE Standards Actions (PASA) within Section 4. 4.2.2, *Standards Committee Subcommittees*; 4.2.2.1 *International Standards Advisory Subcommittee (ISAS)*; 4.2.2.2, *Intersociety Liaison Subcommittee (ILS)* and 4.2.2.6, *Standards Reaffirmation Subcommittee (SRS)*, be approved as shown:

**4.2.2 Standards Committee Subcommittees**

The Standards Committee (StdC) has the following subcommittees: a) the International Standards Advisory Subcommittee (ISAS), b) the Intersociety Liaison Subcommittee (ILS) c) the Planning, Policy, and Interpretations Subcommittees (PPIS), d) b) the Standards Project Liaison Subcommittee (SPLS), e) c) the Code Interaction Subcommittee (CIS), and f) d) the Standards Reaffirmation Subcommittee (SRS).

**4.2.2.1 International Standards Advisory Subcommittee (ISAS)**

ISAS is responsible for monitoring, reporting and submitting recommendations to the Intersociety Liaison Subcommittee concerning ASHRAE's regional and international standards activities. ISAS is comprised of StdC and non-StdC members with knowledge of International Standards Development.

**4.2.2.2 Intersociety Liaison Subcommittee (ILS)**

ILS oversees the Society's participation in the standards work of other standards development organizations, the American National Standards Institute (ANSI), and ANSI's Technical Advisory Groups on ISO and IEC standards. ILS is

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<sup>1</sup> Doug Fick abstained due to not being Chair at the time.

comprised of StdC members only.

#### **4.2.2.6 Standards Reaffirmation Subcommittee (SRS)**

SRS serves as the project committee for reaffirmation, withdrawal, or non-substantive revisions of existing ASHRAE Standards or Guidelines.

SRS is a project committee of at least five (5) members, including at least three members of the StdC and applicants responding to an annual call for members posted in ASHRAE *Standards Actions*. When possible, members shall also have international standards experience. The Chair and Members are appointed annually by the Standards Committee Chair. SRS acts, in limited circumstances, as a project committee for existing standards and is subject to the rules of project committees for reaffirmations, withdrawals, and revisions only to update references, that are not themselves reaffirmations and do not cause a substantive change to the standard. SRS must comply with all ANSI requirements for openness, balance, and due process. SRS may act in lieu of a PC, with the advice of the cognizant TC/TG/TRG, to recommend, reaffirmation, withdrawal or revision of an existing standard or guideline based on updated references (that do not cause a substantive change to the standard) or add a second system of units to an existing standard, thereby making the existing standard useable in either SI or IP units.

SRS oversees the Society's participation in the standards work of other standards development organizations, the American National Standards Institute (ANSI), and ANSI's Technical Advisory Groups on ISO and IEC standards.

SRS is responsible for monitoring, reporting and submitting recommendations to the Standards Committee for the adoption of international standards activities by ASHRAE.

**BACKGROUND:** The development of Global Technical Interaction Committee necessitated the implementation of updated processes. Staff members proposed changes that targeted sections with outdated procedures and introduced new language assigning additional responsibilities to the Standards Reaffirmation Subcommittee. These adjustments aim to enhance efficiency in the standards development process.

**OPS VOTE:** 7-0-0, CV

Technology Council recommends to the Board of Directors that proposed changes to PASA 7.2.3, *Quorum Requirements* be approved as shown:

#### **PASA Section 7.2.3, *Quorum Requirements***

##### **7.2.3 Quorum Requirements**

To conduct standards-related business at a meeting of a project committee or its subcommittees with an official roster, StdC or its subcommittees, a quorum must be present. A quorum exists if a majority of the voting membership is present.

**BACKGROUND:** This update to PASA, brings it in line with the ASHRAE Simplified Rules of Order. Per the rules: The requirements for a quorum shall apply to all groups where a roster identifies official membership, including sub-committees. If a group or committee finds itself without a quorum, it can do nothing but rise and report to the regular meeting of the group it reports to. For all groups, committees and task forces, a quorum shall be a majority of the appointed voting members of the body unless governing documents indicate otherwise.

**OPS VOTE:** 7-0-0, CV

Technology Council recommends to the Board of Directors that proposed changes to PASA Annex B6 *Notification of Procedures* and Annex B8, *Consideration of Appeals*, be approved as shown below:

## **B6 NOTIFICATION PROCEDURES**

**B6.3** The MOS shall acknowledge receipt of the appeal, copy acknowledgement to the Chief Staff Officer, notify the President, and send copies of the appeal to the Appeals Board Chair and to the Chairs of Technology Council, Standards Committee, and the Project Committee (PC) which developed or revised the Standard or Guideline, if applicable. Upon receipt of the appeal, an Appeals Panel will be established in accordance with Section B8 for the purpose of determining if the appeal will be heard or if the appeal will be dismissed without a hearing or upheld without a hearing.

## **B8 CONSIDERATION OF APPEALS**

### **B8.3 Panel Consideration of Adjudicating the Appeal Without a Hearing**

The Appeals Panel shall decide if the appeal shall be dismissed without a hearing. In order to assess whether the appeal should be dismissed, the Appeals Panel Chair may request a preliminary rebuttal from the cognizant PC Chair. The preliminary rebuttal shall be shared with the Appellant(s) prior to the issuance of a decision by the Appeals Panel. No written response to the preliminary rebuttal is permitted. The Appeals Panel Chair or the Chairs designee shall notify the ASHRAE President, the Appellant and the chair of the cognizant PC in writing of the decision. Non-compliance with Section B5 or lack of grounds for an appeal may be reasons for dismissal.

**BACKGROUND:** During our last appeal, ANSI ExSC suggested we clarify our notification process and the process for adjudicating an appeal without a hearing. While the appeal was dismissed ANSI indicated that the procedures needed to be revised.

**OPS VOTE:** 7-0-0, CV

**TechC Vote:** 19-0-0, CV

It was moved by Ms. Hanson that:

M2

Technology Council recommends to the Board of Directors that the Rules of the Board 1.201.004.9, Indoor Air Quality or Ventilation Standards, be revised as follows:

~~1.201.004.9 Indoor Air Quality or Ventilation Standards. Any existing and all future ASHRAE indoor air quality or ventilation code-intended standards must meet the following requirements:~~

- ~~F. The standard shall specify concentration limits of only those specific contaminants for which a nationally or internationally recognized authority (such as US EPA, OSHA or the World Health Organization) has established a maximum permissible concentration limit and for which standardized test procedures have been established. Nationally or internationally recognized authorities and procedures may be those developed by ANSI consensus procedures for private standards-setting organizations, those established by statute, or those duly adopted regulations issued by governmental agencies.~~
- ~~G. The standard may specify means and methods for limiting concentration of pollutants, provided they are related to contaminants normally considered in the design of HVAC systems serving the relevant space type.~~
- ~~H. The standard shall not require the measurement of contaminant or other airborne concentrations except those that can be measured using standardized test equipment and procedures in accordance with ASHRAE Standard 111 (or its successor) or other consensus Methods of Test. Standardized test equipment is defined as equipment normally available in the HVAC&R industry to test and balance technicians or that is common in building ventilation assessment.~~
- ~~I. The standard shall not make any claims or guarantees that compliance will provide health, comfort or occupant acceptability, but shall strive for those objectives, consistent with ASHRAE policy.~~
- ~~J. The standard may contain factors for use in design of calculations such as mixing efficiencies and air change effectiveness, as long as it is the consensus of the standards-writing body that these factors are important to providing acceptable indoor air quality.~~

**Background:** This Rule of the Board (approved in 2009) was developed following a member petition referencing the revision of ASHRAE Standard 62-1989, approved in 1999, and a subsequent BOD-developed position approved by the membership that attempted to clarify the issues raised in the petition. Among other issues, the original petition expressed concern regarding the ability to meet the requirements of the standard, stating: "Many of the requirements of the current standard are beyond public interests creating burdensome requirements, incurring excessive expenses, and defying field verification." The latter set of question developed by the BOD attempted to clarify these issues consistent with ASHRAE policies on standards development and health considerations therein.

Nevertheless, the restrictions included in this rule conflict with a key ANSI principle that the consensus body responsible for developing a standard be solely responsible for the content of a standard. Several portions of the rule have also created concerns or conflicts with standard development resulting from the SARS-CoV-2/COVID-19 pandemic. Other issues, such as wildfire and a focus on building resilience, reinforce the need for leadership from ASHRAE in the area of indoor air quality.

It appears that portions of the rule (B, D, E) are unnecessary or redundant and that other portions (A, C) appear to create obstacles to developing necessary standards related to indoor air quality. Society Rules Committee has reviewed the potential for a change to this Rule of the Board and indicated that it can be made by a vote of the Board of Directors and does not require a vote of the Membership. Given this information, it is recommended that the rule be deleted in its entirety.

**OPS VOTE:** 7-0-0, CV

**TechC Vote:** 18-0-0, CNV

It was moved by Ms. Hanson that:

**M3**

Technology Council add the following to Section 4.2b of the Technology Council Manual of Procedures:

b. The size of the Position Document Committee should be no less than five (5) and no more than eight (8) members and provide a good cross-section of the technical aspects of the issue and perspectives of parties at interest. In order for a Position Document Committee of greater than 8 members to be approved, the sponsoring committee must provide a technical justification that identifies critical topics to be included and demonstrate how important topics cannot be addressed with an 8-member committee. The intent is that all members are classified as voting members.

**BACKGROUND:** The intent is to require a more detailed explanation of why more than eight members is appropriate. At the time the motion was made in DRSC the revised Manual of Procedures hadn't been approved. An action item was assigned to determine if this goes in the Manual of Procedures or if it belongs in the Reference Manual. This will be provided to the subcommittee working on revising the Reference Manual.

**OPS VOTE:** 7-0-0, CV

**TechC Vote:** 18-0-0, CNV

Ms. Hanson highlighted the following information items:



1. A second request for an ASHRAE ONLY standard has been received, *Standard Method for Calculation of Building Operational Greenhouse Gas Emissions*. Once published the standard will be submitted to ANSI for approval. Standards Committee is now working on developing a process for ASHRAE only standards.
2. Continued Development ASHRAE Web Online Research Tracking System  
Staff has been working with Element Eleven to automate the research process. This vendor is the same vendor used to develop the updated online comment database so this will have a similar look. Access to different aspects of the database will be connected to roles in the membership software (Netforum). Phase one will address the RTAR process as there are similarities in approvals in the other phases. The testing phase is targeted for the first week of February.
3. Since Technology Council approved the new Manual of Procedures, there will be a disconnect for a little while between the Manual of Procedures and the Reference Manual. A small subgroup will work on the revisions after receiving feedback from the Council.

## B. Special Projects

Steve Sill, Special Projects Chair, presented the report. The report is posted on Basecamp as *04B\_SpcProj\_Report\_to\_TechC-2024\_01\_24\_Final.docx*.

Mr. Sill highlighted that Special Projects Subcommittee reviewed the ASHRAE Global HVAC&R Summit Final Report to determine which actionable items that would be addressed by Technology Council through its Standing Committees. *04BAAtt\_Global HVACR Summit action items 17<sup>th</sup> July 23 (1).xlsx*, posted on Basecamp, provides actionable items from Special Projects Subcommittee that would be addressed by Publications Education and Members Councils. Special Projects has no new assignments for committee review currently.

Additionally, Mr. Sill and others have come up with a recommendation of what could be beneficial to Tech Council and will circulate this to chairs for them to see what could be helpful to them.

- A1** An action item was assigned to staff to send the Global HVACR Summit Action Item list to Tim Wentz to review.
- A2** An action item was assigned to staff to circulate this list to all members in Tech Council.
- A3** An action item was assigned to Steve Still to identify which items in the Global HVACR Summit Action Item list that Tech Council should be focusing on.
- A4** An action item was assigned to staff to send Global HVACR Summit Action Item list with proposed assignments to the Society Planning Committee.

### C. Document Review Subcommittee (DRSC)

Wade Conlan, DRSC Chair, presented two reports. These reports are posted on Basecamp as *04C.1-DRSC Rprt to TechC.-11.2.2023.docx* and *04C.2-DRSC Rprt to TechC.W.24.docx*.

It was moved by Mr. Conlan that:

**M4**

Technology Council recommend to the Board approval of the revised *Energy Efficiency in Buildings* Position Document(PD).

**BACKGROUND:** The PD was included as **Attachment 04C.1-Att. A**. The title, purpose and scope of this PD was included as **Attachment 04C.1-Att. B** A previous draft was sent for DRSC, Tech Council and BOD members to comment on. Comments were collected and sent to PD committee. The PD committee made changes in response to comments that were collected and sent to PD committee.

**DRSC VOTE: 6-0-0 CV – PASSED**

**TechCVote: 0-18-0, CNV**

*Secretary's Notes: Concerns were expressed that the title, purpose, and scope is not being followed and it is more about Greenhouse Gas Emissions. Those types of items belong in climate change or building decarbonization. This document needs to focus on energy efficiency, and all agreed one more round of editing and it should be able to move forward. The feedback will be shared with the PD Committee.*

It was moved by Mr. Conlan that:

**M5**

Technology Council reaffirm the *Building Decarbonization* PD with minor, editorial changes as shown in the Attachment.

**BACKGROUND:** The PD is included as **Attachment 04C.1-Att. C**. The PD was reformatted to get into latest format. Changes include edits, moving sections, and new paragraph that combined two existing sections.

**DRSC VOTE: 6-0-0 CV – PASSED**

**TechC Vote: 18-0-0, CNV**

It was moved by Mr. Conlan that:

**M6**

Technology Council recommend to the BOD ExCom that a revision to the

[Unvented Combustion Devices and Indoor Air Quality](#) position document be initiated.

**BACKGROUND:** This [PD](#) has been converted to the current PD format but has not been fully revised since its initial publication in 2012. The 2012 version was focused on heating applications and an update to include cooking appliances is warranted. The title, purpose and scope (TPS) is included as **Attachment 04C.2-Att. A**.

**DRSC VOTE: 4-0-1\* CNV PASSED**

\*Francisco abstained as proposed chair

**TechC Vote: 17-0-1<sup>2</sup>, CNV**

It was moved by Mr. Conlan that:

**M7**

Technology Council appoint the following members to the *Unvented Combustion Devices and Indoor Air Quality* PD Committee:

- Paul Francisco (CCRPC/Colorado State) (**Chair**) - General
- Steve Emmerich (NIST) - Public
- Rick Karg (Residential Energy Dynamics) - General
- Frank Johnson (Gas Technology Institute) - Producer
- Rebecca Olson (Minnesota Center for Energy and Environment) - General
- Brett Singer (LBNL) – Public

**BACKGROUND:** All expressed a willingness to participate in the revision. The committee meets the balance requirements for PD committees (2 public, 3 general, 1 producer). The members represent relevant ASHRAE committees and outside expertise. ASHRAE bios for ASHRAE members are available on [Basecamp](#).

**DRSC VOTE: 4-0-1\* CNV PASSED**

\*Francisco abstained as proposed chair

**TechC Vote: 17-0-1<sup>3</sup>, CNV**

It was moved by Mr. Conlan that:

**M8**

Technology Council reaffirm the [Filtration and Air Cleaning](#) PD.

**BACKGROUND:** This PD is currently being revised but the [current PD](#) expires Feb. 2, 2024. EHC recommended reaffirming until the revised PD is approved

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<sup>2</sup> Paul Francisco abstained because he is the proposed chair.

<sup>3</sup> Paul Francisco abstained because he is the proposed chair.

so the information is not lost.

**DRSC VOTE: 5-0-0 CNV – PASSED**

**TechC Vote: 18-0-0, CNV**

It was moved by Mr. Conlan that:

**M9**

Technology Council appoint the following members to the Refrigerants and their Responsible Use PD committee:

<u>Name</u>	<u>Company</u>	<u>Expertise</u>	<u>ASHRAE PD Balance Category</u>
Dustin Lilya (Chair)	DC Engineering	Commercial Refrigeration Application	User/General
Douglas Scott	Claudius Lynne	Industrial Refrigeration Application	User/General
Helen Walter Terrioni	Trane	Equipment OEM	General
Gary Schrift	IIAR	Standards Organization	Public
Ayman Taha Hussein Eltalouny	UNEP	Governmental / International Organization	Public
Joshua Hughes	Chemours	Refrigerant Manufacturer	Producer
Chris Seeton	Koura	Refrigerant Manufacturer	Producer
Samual Yana Motta	ORNL	National Laboratory	Public

**BACKGROUND:** This revision was authorized at the 2023 Annual with Dustin Lilya as chair. Lilya developed this list of PD members for REF-CPCC consideration. The committee is balanced according to ASHRAE PD rules and all have confirmed their willingness to participate. There are eight voting members but it is expected that TC 3.1 and other experts in ASHRAE and outside of ASHRAE would participate in the revision process. ASHRAE bios for ASHRAE members are available on [Basecamp](#).

**DRSC VOTE: 5-0-0 CNV – PASSED**

**TechC Vote: 18-0-0, CNV**

Mr. Conlan highlighted the following information items:

1. REF-CPCC is exploring a proposal for a new ASHRAE PD on *Sustainable Cold Chain*. A subcommittee was tasked with developing a title and scope for a formal PD proposal.

2. EHC subcommittee is considering drafting a proposal for a new position document related to Ozone/Indoor Chemistry. A subcommittee was tasked with developing a title and scope for a formal PD proposal if deemed appropriate.
3. EHC approved a new Emerging Issue Brief (EIB) on Reactive Oxygen and Nitrogen Species that will be posted to EHC page on ASHRAE website.
4. Status updates to the following PDs were reported and are included in the PD Status sheet (**Attachment 04C.2-Att. B**):
  - Decarbonization
  - Energy Efficiency in Buildings
  - Unvented Combustion Devices and Indoor Air Quality
  - Climate Change
  - Combustion of Solid Fuels and Indoor Air Quality in Primarily Developing Countries
  - Human Health and Wellness in the Built Environment
  - Refrigerants and their Responsible Use
  - Indoor Carbon Dioxide
  - Filtration and Air Cleaning

## 5. **STANDING COMMITTEE REPORTS**

### A. **Standards Committee (StdC)**

Doug Fick, Chair of StdC, presented the report. The report is posted on Basecamp as *05AStdC Report to TC Winter Meeting January 2024.docx*.

It was moved by Mr. Fick that:

**M10**

The following Title, Purpose and Scope (TPS) be approved and a new Standard Project Committee be formed.

**Title:** Standard Method for Calculation of Building Operational Greenhouse Gas Emissions

**Purpose:** This standard provides a common methodology for the calculation of greenhouse gas (GHG) and carbon emissions of new and existing buildings. This standard provides a consistent procedure and data to be referenced by other standards that define methods of evaluation, verification, limitations, or targets for new and existing buildings.

**Scope:**

**2.1** This standard covers:

- c. calculation methodology for determination and expression of building(s) GHG and carbon emissions associated with building operations

including energy use; and

- d. calculation methodology for determination and expression of the building(s) GHG and carbon emissions associated with flows across the site boundary and off-site credited flows.

**2.2** This standard provides:

- e. Uniform method of calculation and minimum required level of rigor
- f. Identification of data required and calculations to be used
- g. Identification of reporting metrics to be used
- h. Definitions and Terminology

**2.3** This standard does not establish methods of evaluation, verification, GHG or carbon emission goals or limits, or provide design guidance or requirements for buildings.

**Background:** This TPS was submitted by Kim Cheslak for consideration at the Winter meeting. TC 7.6, *Building Energy Performance* was assigned as the cognizant committee. Emily Toto was recommended as the Chair of the proposed new project committee. There are at least five members willing to volunteer. This standard will be developed as an ASHRAE only standard under an expedited schedule of 18 months. The Board of Directors in December approved the development of this standard as a non-ANSI standard. The BOD did not consider the TPS and does not need to do so. \$75,000 of funding from the Task Force on Building Decarbonization has been earmarked for the development. Upon publication of the standard, it will be submitted for consideration as an ANSI standard.

**StdC Vote:** 25-0-0, CNV

**TechC Vote:** 18-0-0, CNV

It was moved by Mr. Fick that:

**M11**

The following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed.

**Title:** Design, Installation and Commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings

**Purpose:** This guideline provides guidance for the design, installation and commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings.

**Scope:**

1. This guideline applies to central domestic electric heat pump hot water systems in new multifamily buildings.

2. This guideline provides procedures and design factors; the requirements and installation factors; and the performance, commissioning and operational factors to be considered by the design engineer, contractor and maintenance personnel involved with these systems.

**Background:** This TPS was submitted by Jim Lutz for consideration at the Winter meeting. PPIS assigned the TC 6.6, Service Water Heating as the cognizant committee. Gary Klein was recommended as the Chair of the proposed new project committee. There are at least five members willing to volunteer.

**StdC Vote:** 25-0-1, CNV. Jim Lutz abstained as the submitter of the proposal.

**TechC Vote:** 18-0-0, CNV

It was moved by Mr. Fick that:

**M12**

The following Title, Purpose and Scope (TPS) be approved and a new Standards Project Committee be formed.

**Title:** Safety Standard for Transportation Refrigerating Systems

**Purpose:** This standard specifies safe design, construction, installation, and operation of refrigerating systems for use in transportation applications.

**Scope:**

7. This standard establishes safeguards for life, limb, health and property and prescribes safety requirements
8. The design, construction, test, installation, operation, and inspection of mechanical refrigerating systems used in transportation applications
9. Modifications, including replacement of parts or components if they are not identical in function and capacity
10. Substitutions of refrigerants having a different designation
11. This standard applies to refrigerating systems for the following applications
  - On road transport of goods
  - Refrigerated rail units and refrigerated boxcar
  - Self-contained marine
  - Intermodal transport
  - Passenger buses and trains
12. This standard does not apply to
  - Mobile air conditioning (MAC) systems within the scope of SAE J639
  - Refrigerating and air conditioning systems integral to ships within the scope of ASHRAE Standard 26
  - Any refrigerating or air conditioning system designed to be

- operated during air travel
- Refrigerating and air conditioning systems within scope of ASHRAE Standard 15
- Residential refrigerating and air conditioning systems within scope of ASHRAE Standard 15.2

**Background:** This TPS was submitted by Alex Schmig for consideration at the Winter meeting. TC 10.6, *Transport Refrigeration*, was assigned as the cognizant committee. Alex Schmig was recommended as the Chair of the proposed new project committee. There are at least five members willing to volunteer.

**StdC Vote:** 26-0-0, CNV

**TechC Vote:** 17-0-1<sup>4</sup>, CNV

It was moved by Mr. Fick that:

**M13**

ASHRAE jointly sponsor ANSI/ASHRAE Standard 205-2023, *Representation of Performance Data for HVAC&R and Other Facility Equipment* with IBPSA and ASHRAE as the lead cosponsor following ASHRAE's ANSI development procedures.

**Background:** As a co-sponsor IBPSA would recommend a vice-chair and would approve final publication of editions of the Standard. Currently, the IBPSA Standards committee is small informal group. It is likely they would focus on procedural issues rather than technical content issues. The advantage of IBPSA co-sponsorship is it could generate more international participation in SSPC 205. Currently IBPSA is co-sponsoring Standards 209, *Energy Simulation Aided Design for Buildings Except Low-Rise Residential* and Standard 232P, *Common Content and Specifications for Building Data Schemes*. In addition, SSPC 140 has recommended ASHRAE accept co-sponsorship for Standard 140, *Method of Test for Evaluating Building Performance Simulation Software*.

**StdC Vote:** 25-0-0, CNV

**TechC Vote:** 18-0-0, CNV

Mr. Fick highlighted the following information item:

1. Standards Committee approved the following for publication:
  - a) BSR/ASHRAE Addendum *i* to ANSI/ASHRAE Standard 15-2022, *Safety Standard for Refrigeration Systems*
  - b) BSR/ASHRAE Addendum *f* to ANSI/ASHRAE Standard 62.2-2022, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*
  - c) BSR/ASHRAE/IES Addendum *h* to ANSI/ASHRAE/IES Standard 90.2-2018, *High-Performance Energy Design of Residential Buildings*

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<sup>4</sup> Steve Kujak abstained



- d) BSR/ASHRAE/IES Addendum L to ANSI/ASHRAE/IES Standard 90.2-2018, *High-Performance Energy Design of Residential Buildings*
- e) BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 160-2021, *Criteria for Moisture-Control Design Analysis in Buildings*
- f) BSR/ASHRAE/ICC/USGBC/IES Addendum ak to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*

**A5** An action item was assigned to Stephanie to talk to Joslyn Ratcliff about what software/web service PC chairs should use for document collaboration and/or storage so it complies with the rules.

**A6** An action item was assigned to Standards Committee to collect information from the project chairs and SPLS Liaison about concerns with the publication process and provide to Staff.

## **B. Research Administration Committee (RAC)**

The report for RAC is posted on Basecamp as *05B-Info.Items..W24.doc*. There were no motions brought forward.

Bill Murphy, Chair of RAC, reported that for the first time, RAC had a 100% attendance at a meeting. He insists this is the best RAC committee he's been on in six years. Additionally, the goal for RAC is to have their Research Manual ready to be changed in Indy, after they can get more input from the TCs.

**A7** An action item was assigned to RAC to make sure their strategic planning group does not absolve so that tracking of the initiatives can be reported.

## **C. Technical Activities Committee (TAC)**

James Bennett, the Chair of TAC, presented the report. The report is posted on Basecamp as *05C-TAC Rprt to TechC.W24.docx*. There were no motions brought forward.

Mr. Bennett highlighted the following information items:

1. TAC voted to approve a proposal for a new MTG.GAI, *Generative Artificial Intelligence*. TAC voted to approve a proposal for a new MTG.BEQ, *Building Energy Quotient*. This MTG will continue the work of the Building Energy Quotient standing committee that had reported to the ASHRAE BOD. TAC desires to be responsive to BOD initiatives by providing a structure within TAC for continuity.
2. The Online Rostering project is complete and ready for rollout. Staff will send update links shortly after Winter Meeting, recording training materials for use and education of FG leadership. TAC members tested the tool and ASHRAE Staff responded to feedback.

3. TAC cultivated strategic thinking: Vice Chair is GTIC Technology Subcommittee Chair. Section Heads met with section FG Chairs for strategic planning. TAC is considering how to make section-level strategy part of ongoing TAC operations.

#### **D. Environmental Health Committee (EHC)**

Bill Bahnfleth, the Chair of EHC, presented the report. The report is posted on Basecamp as *05D-EHC Rprt to TechC.24W.docx*. There were no motions brought forward.

Mr. Bahnfleth highlighted the following information items:

1. Jennifer Isenbeck & Iain Walker will co-chair the ASHRAE's IEQ2025 Conference scheduled for September 2025 in Montreal Quebec with a theme of "*Rising to New Challenges: Connecting IEQ with Sustainable Buildings*". AIVC, ISIAQ, and IEQ-GA are involved.
2. EHC approved a new Emerging Issue Brief (EIB) on Indoor Reactive Oxygen and Nitrogen Species (See **Attachment 05D-A of the EHC Report**).
3. ASHRAE continues to participate in the IEQ-GA with Corey Metzger as the ASHRAE representative. Donald Weekes is President and William Bahnfleth is Vice-President. The IEQ-GA is now finalized as a legal entity and operates with 12 full member organizations (ACGIH, AICARR, AIHA, AIVC, ASA, ASHRAE, FAIAR, FEDECAI, IES, IICRC, ISHRAE, REHVA). The IEQ-GA has held webinars, podcasts and is planning a publication. All are invited to listen and participate.

#### **E. Refrigeration/CPCC (REF-CPCC)**

Steve Kujak, the Chair of REF-CPCC, presented the report. The report is posted on Basecamp as *05E-REF-CPCC Rprt to TechC.24W.docx*. There were no motions presented.

Mr. Kujak reported that subcommittees are meeting more regularly, and thanks to expanding the committee, there is more member involvement.

#### **F. Residential Building Committee (RBC)**

Bill Healy, the Chair of RBC, presented the report. The report is posted on Basecamp as *05F\_RBC\_Report\_to\_TechC\_2024-01-24\_Final.docx*.

It was moved by Mr. Healy that:

**M14**

The Residential Buildings Service Award be presented at the Annual Plenary of the Annual Conference starting at the June 2024 plenary.

**BACKGROUND:** In an effort to bring more recognition to the Residential

Buildings Service Award, and residential buildings sector overall, the Residential Buildings Committee is requesting the Technology Council approve the award to be presented at the annual plenaries of ASHRAE's Annual Conferences going forward starting from the June 2024 plenary.

Since its inauguration in 2022, the Residential Buildings Service Award has always recognized recipients for their excellence in volunteer service within ASHRAE focused on residential building issues. However, outside of the residential sector, this accomplishment largely goes unrecognized because it's only presented during full committee meetings at ASHRAE annual conferences.

Presenting the Residential Buildings Service Award at the plenaries would not only bring more recognition to recipients and their contributions, but to the residential sector and RBC. RBC would provide airfare for recipients to travel and receive their award in-person. Currently, RBC is within budget to fly its next Service Award recipient to the 2024 Annual Conference in Indianapolis, Indiana.

**Motion Approved: 12-0-0, CNV**

**Fiscal Impact:** \$600 for airfare (RBC budget)

**Staff Impact:** None

**TechC Vote: 18-0-0, CNV**

Mr. Healy highlighted the following information items:

1. Residential Buildings Committee (RBC) continues to conduct strategic planning sessions to develop a 5-year MBO plan with the goal of providing more consistency for completing MBO goals as members change over time. A final copy of the Strategic Plan to be completed by end of SY 23-24.
2. ASHRAE Journal column *Ventilation, IEQ and Sleep Quality in Bedrooms* received a Best of ASHRAE Journal 2023 recognition.
3. The Communications Subcommittee is currently working on demo webpage for new RBC website to be sent to ASHRAE marketing team for review and feedback.

#### **G. Global Technical Interaction Committee**

Olu Soluade, the Chair of GTIC, presented the report. The report is posted on Basecamp as *05G\_GTIC Report to TechC Winter Meeting January 2024.docx*. There were no motions presented.

Mr. Soluade reported that GTIC wants to increase and improve ASHRAE's presence internationally and bring the ASHRAE standard globally. Additionally, GTIC currently has 3 subcommittees.

### **6. SPECIAL COMMITTEE/LIAISON REPORTS**

## A. Government Affairs Committee (GAC) Liaison Report

Christopher Phelan, GAC Liaison, presented the report. The report is posted on Basecamp as *06A\_GAC Report to Tech Council - Winter 2024.pdf*. The following information items were highlighted:

1. The GAC extends its appreciation to Tech Council for providing considerable support to the GAC through providing updates on PDs, standards and other technical resources; conducting review of collateral materials for Government Outreach Events; identifying Subject Matter Experts for government briefings; and accelerating the development of Standards and other technical resources that are in demand by policy makers and government authorities. In particular, thanks to:
  - a. The TFBD for its review of the updated PPIB on Building Electrification; all edits were accepted by the GAC and the document approved unanimously for publication.
  - b. The TFBD for briefing the White House on the new zero emissions building definition, and for drafting comments in response to the recent RFI.
  - c. TFBD's Grid Guide Working Group for providing a member to attend the GSA Fed Flex Forum.
  - d. Several Standards Project Committees for providing technical assistance, including by attending virtual meetings and responding in writing to questions. Members and Staff Liaisons from SSPCs 15, 34, 90.1, 90.2, 100, 188, 228, and 240 provided assistance over the past 6 months.
2. PPIBs: The GAC expects to update 10 existing PPIBs this spring, and develop 3 new PPIBs (Wildfires and Indoor Environmental Health; Embodied Carbon; and Infectious Disease Mitigation) and the GAC would appreciate review of those updates by Tech Council.
3. Translation of Standards and Public Policy Issue Briefs: The GAC had a robust discussion on the need to translate ASHRAE standards and other publications, as well as Public Policy Issue Briefs for government advocacy. Staff will investigate the costs and process for translation of publications. The GAC Global Affairs Subcommittee will provide a report on priorities for translation (language(s) and publications), working with the Planning Committee to ensure the priorities align with Society's strategic direction and consulting with the Global Technical Interaction Committee through its GAC liaison. Funding for translating standards is available from the International Trade 2 Administration, and it would be helpful to know if Tech Council has any priorities for translating Standards or other technical resources.
4. Continued Communication: The GAC would appreciate receiving any key updates on new or updated Standards and Guidelines, Position Documents, or other technical resources. The GAC wants to make sure the information it is providing to policy makers through its extensive grassroots network is the most up-to-date and technically accurate.

## **B. Finance Liaison Report**

Mr. Rakheja reported that the budget looks good, and finances are good. There was a motion approved by the Board to set up the Center of Excellence Building (CEBD), which will have a full-time staff budgeted for this.

## **C. Society Planning Liaison Report**

Wade Conlan, PLC Liaison, explained how ASHRAE has hired a third-party group McKinley Advisors to assist with the next Society Strategic Plan. Members of McKinley have been attending meetings during the Winter Conference to observe and gather information. Their next steps are to do interviews and surveys, and then meet with the Board Strategic Planning Committee in the spring to begin development of the next Strategic Plan.

**A8** An action item was assigned to Wade Conlan to relay that the previous survey was more grassroots oriented and less Tech Council oriented.

## **D. Society Rules Committee**

Mr. Rakheja reported that SRC approved the revised TechC MOP .

### **A. DEI**

Steve Sill reported that DEI had three events during the Winter Conference.

Paul Francisco brought up the point regarding equity, that we can make inequity worse if the correct steps aren't taken to bridge the gap. He suggested PDs and issue briefs that focus on equity.

### **B. Task Force on Building Decarbonization (TFBD)**

Luke Leung provided updates on the TFBD activities. The TFBD will become the Center of Excellence Building (CEBD) beginning July 1, 2024, consisting of ten members. Tech Council, PubEd Council and Members Council will each have one liaison to this team. A lot of the heavy lifting for CEBD will come from Tech Council, Members Council, and PubEd. The CEBD will report directly to the Board of Directors ExCom.

Additionally, the development of the emissions standard for the U.S. can later and help other countries that have not developed one yet. This would be a strategic move.

Ashish formed an ad hoc to create a formalized structure for how communication happening at CEBD is then channeled to all the committees.

**A9**

An action item was assigned to Wade to lead this ad hoc to determine how the CEBD work will flow within the Council.

## **7. AD HOC REPORTS**

### **A. World of Tech – Smith**

WOT currently has three and a half articles written. They will look into working with ASHRAE marketing to move this forward.

### **B. Streamlining – Maston 07B**

Sarah Maston presented the results of the Streamlining ad hoc's discussions, which can be found on Basecamp as *07B\_Continuous Improvement-Discussion Points\_2023-01-15.docx*.

This sparked a conversation about DAL nominations. There is concern that regions might not know or recognize people who are more involved at the TC level. Ashish Rakheja suggested that PubEd and others should send nominations on people they notice as leaders. Bill Bahnfleth brought up the point that sometimes the presenter for the candidate is not knowledgeable enough about the candidate.

## **8. STRATEGIC PLANNING**

June is when the Strategic Plan is evaluated, so reports in June should include this.

## **9. DOT REPORT**

Stephanie Reiniche reported that there have been several promotions and new hires (listed below).

1. Ryan Shanley was promoted to Senior Manager of Standards.
2. Kai Ngyuen was hired as Assistant Manager of Standards International.
3. Tanisha Meyers-Lisle was promoted to Assistant Manager of Standards-Administration.
4. Donna Daniel was promoted to Research Administrator.
5. Carl Jordan was hired as Standards Administration Specialist and reports to Tanisha.
6. Katrina Shingles was promoted to Project Committee Coordinator.

## **10. NEW BUSINESS**

Mike Pouchak recognized Ashish Rakheja and Richie Mittal as new fellows.

**11. EXECUTIVE SESSION**

Executive Session was held regarding RAC document 05B\_RAC-Exec.Session.W24.Draft.doc.

**12. NEXT MEETING**

Tech Council will meet on Monday, March 11, 2024, at 8am EST.

**13. ADJOURN**

The meeting was adjourned at 12pm CT.