TECHNOLOGY COUNCIL
Fall Virtual Meeting
October 29, 2024

MOTIONS
Technology Council Fall Virtual Meeting Motions
October 29, 2024

Motion Number	Motion
1	Technology Council recommends to the Board of Directors that the Rules of the Board 1.300, Position Documents and Public Policy Issue Briefs, be revised as shown in M1.
2	Technology Council recommends that the BOD approve the revision to the *Energy Efficiency in Buildings* position document (PD).
3	Technology Council reaffirm the *Limiting Indoor Mold and Dampness in Building Position Document*.
4	It is recommended that the following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed. **Title:** Operational Best Practices for Air Quality within Commercial Aircraft **Purpose:** This guideline serves as a companion to ASHRAE Standard 161 by describing operational best practice recommendations to assist air carriers to meet or exceed Standard 161 requirements. **Scope:** **2.1** This guideline applies to commercial passenger air-carrier aircraft carrying 20 or more passengers and certified under the authority of either the US Federal Aviation Administration or another cognizant air worthiness regulatory body. **2.2** This guideline considers cabin air contaminants, thermal conditions, and related factors such as humidity and pressure that may affect air quality.
5	It is recommended that IBPSA be approved as a cosponsor of Proposed ASHRAE Standard 229P, *Protocols for Evaluating Ruleset Application in Building Performance Models*, with ASHRAE as the lead.
6	Technology Council approve that ASHRAE Staff be requested to create an infection control webpage.
7	Technology Council approve $21,000 from FY 2025-2026 for a stakeholder's workshop to be held at the 2025 Building XVI Conference. RBC approved the motion 12-0-0.

ACTION ITEMS
Technology Council Fall Virtual Meeting
October 29, 2024

Secretary's Note: There were no new action items from this meeting.

ACTION ITEMS
Technology Council Annual Meeting Indianapolis
June 26, 2024

AI#	Responsibility	Status	Description
1	Staff	Complete	To send EHC's 2024 Trends and Research Gaps report to RAC and TAC.
2	REF-CPCC	Ongoing	To look at the "H" in ASHRAE and the emerging trend of electrification of heating for comfort and process cooling. TAC to make recommendations for support of "H".
3	Staff	Ongoing	To send RBC, TAC, and RAC's Strategic Plan to Society Planning Committee.
4	Staff & Tech Council Leadership	Ongoing	To work with RAC to make sure RAP process is in the correct location in the rules.

ACTION ITEMS
Technology Council Spring Web Call
March 11, 2024

AI#	Responsibility	Status	Description
1	Staff	Complete	To send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to Tim Wentz.
2	Staff	Complete	To send the ASHRAE Global HVAC&R Summit Final Report with Tech Council assignments to the Standing Committee Chairs.
3	Wade Conlan	Complete	To arrange a working session between the Energy Efficiency in Buildings PD Committee and those who have opinions about the revised position document.

4	James Bennett	Complete	To share TAC inputs to the Strategic plan with the Society Planning Committee.
5	Standing Committees	Complete	To keep Susanna Hanson informed on Strategic Plan input.
6	Stephanie Reiniche	Complete	To record sentiments from this meeting regarding DEI for Ashish to bring to the Board.
7	Tech Council	Ongoing	To update the Tech Council Reference Manual to reflect the process for handling projects from the CEBD.

ACTION ITEMS
Technology Council Winter Conference Chicago
January 24, 2024

AI#	Responsibility	Status	Description
1	Staff	Complete	Send the Global HVACR Summit Action Item list to Tim Wentz to review.
2	Staff	Complete	Circulate this list to all members in Tech Council.
3	Steve Sill	Complete	Identify which items in the Global HVACR Summit Action Item list that Tech Council should be focusing on.
4	Staff	Complete	Send Global HVACR Summit Action Item list with proposed assignments to the Society Planning Committee.
5	Stephanie Reiniche	Complete	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.
6	Standards	Complete	Collect information from the project chairs and SPLS Liaison about concerns with the publication process and provide to Staff.
7	RAC	Complete	Make sure their strategic planning group does not absolve so that tracking of the initiatives can be reported.
8	Wade Conlan	Complete	Relay that the previous survey was more grassroots oriented and less Tech Council oriented.

9	Wade Conlan	Complete	Lead this ad hoc to determine how the CEBD work will flow within the Council.

Minutes
Technology Council

Voting Members Present:	Staff
Wade Conlan, Chair	Jeff Littleton, Exec Vice President
Devin Abellon, Vice Chair	Stephanie Reiniche, DOT
Carl Huber	Steve Hammerling, MOT
Corey Metzger	Ryan Shanley, SMOS
Costas Balaras	Tanisha Meyers-Lisle, AMOS-
Heather Schopplein	Administration
Joseph Sanders	Derrick Nesfield, MOSP
Larry Smith	Leigh Lain Walker, MOBD
Mark Fly	Lizzy Seymour, DOMS
Michael Pouchak	Alice Yates, DOGA
Richie Mittal	Amber Thomas, Administrative Assistant
Susanna Hanson	
Marwa Zaatari – EHC Chair	
Ashish Rakheja – GTIC Chair	**Guests**
Natascha Milesi-Ferretti – RAC Chair	Bruce Nelson
Rachel Romero – RBC Chair	Justin Prosser
Doug Scott – REF Chair	Kashif Nawaz
Doug Fick – StdC Chair	Kyle Gluesenkamp
Kevin Mercer – TAC Chair	Lisa Ng
	Tina Brueckner
	Srinivas Katipamula
Non-voting Present:	
Max Sherman -EHC Vice Chair	**TechC Voting Absent:**
Steve Bushby – GTIC Vice Chair	Dru Crawley
Jin Wen – RAC Vice Chair	
Carol Marriott – RBC Vice Chair	**TechC Non-Voting Absent:**
Donald Brandt – REF Vice Chair	
Adrienne Thomle - StdC Vice Chair	
Satheesh Kulankara – TAC Vice Chair	

1. CALL TO ORDER/OPENING COMMENTS

Chair Conlan called the meeting to order at 11:01 A.M. EST. The Value Statement, the commitment to the Code of Ethics, the ASHRAE Core Values, and the Diversity Statement 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 "2024-10-29 Fall Web Meeting."

2. REVIEW OF AGENDA

A. Agenda Review

The agenda was approved as presented.

3. **MINUTES/ACTION ITEMS**

    A. TechC Spring Meeting Minutes – 03A
    B. TechC Annual Meeting Minutes – 03B

    It was moved by Ashish Rakheja and seconded by Susanna Hanson that the Technology Council Annual Meeting minutes be approved.

    Tech C Vote: 18-0-0, CNV

    MOTION PASSED by Acclamation.

    C.   Action Items

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

4. **SUBCOMMITEE 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*.

    Ms. Hanson highlighted the following information items:

    1. Standing committees reviewed their MBOs, making sure they are up to date and align with the current Strategic Plan.
    2. Operations Committee discussed a proposed Rules of the Board revision for Position Documents (Attachment A). There was not time to take action on this proposal during the Operations meeting. It was noted that it would be moved from the floor during the Council meeting

    It was moved by Susanna Hanson that:

M1   Technology Council recommends to the Board of Directors that the Rules of the Board 1.300, Position Documents and Public Policy Issue Briefs, be revised as follows:

1.300 POSITION DOCUMENTS AND PUBLIC POLICY ISSUE BRIEFS
1.300.001Definitions

1.300.001.1 An ASHRAE Position Document is a BOD-approved document expressing the views of the Society on a current issue of importance to ASHRAE and its members. It includes a concise

summary statement as well as supporting documentation, analysis and/or rationale, and recommendations.

1.300.001.2 An ASHRAE Public Policy Issue Brief (PPIB) is a one-page brief on current relevant legislative/regulatory issues that are of interest to ASHRAE. (07-01-31-23B)

1.300.002 Initiation: Any ASHRAE officer, member, committee or council, or any responsible outside entity may suggest issues for which an ASHRAE Position Document or Public Policy Issue Brief should be developed or may suggest whether existing ASHRAE documents should be revised, withdrawn, or rescinded.

a. Requests for new Position Document requests should be sent to the Technology Council chair for consideration. Technology Council recommends initiation of new position to the Board of Directors Executive Committee for approval. Position Documents are produced using the procedures and forms located in the Technology Council MOP. (22-02-02-15)

b .Public Policy Issue Brief requests are sent to Government Affairs Committee for consideration. Government Affairs Committee shall make recommendations to create a new PPIB; re-affirm, amend, or expire and remove existing PPIBs. PPIB's are developed by the Government Affairs Committee.. (22-02-02-15)

1.3000.003 Approval

1.300.003.1 Revision of Existing Position Documents.

A. Technology Council approves requests for initiation of revision of existing position documents when there is no proposed changes to the title, purpose and scope (TPS).

B. Technology recommends revisions to position document title, purpose and scope changes to the Board of Directors Executive Committee for approval.

1.300.003.1Technology Council recommends publication of Position Documents including changes, to

the Board of Directors for approval. Position Documents will be distributed to document review subcommittee (DRSC), Technology Council and the Board of Directors for a review at least 30 days prior to being considered for approval. PDs should be reviewed for technical content, to assure procedures have been followed, and to assure the document stays within the approved TPS.

1.300.003.2 Technology Council approves re-affirmation or withdrawal of Position Documents and reports to the Board of Directors for information.

1.300.00.3 The Board of Directors acts on Technology Council recommendations for publication of Position Documents) (14-07-02- 29)

1.300.003.4 GAC shall send newly developed, revised or reaffirmed PPIBs for review by Technology Council or its designee. After review by Technology Council or its designee, comments shall be sent to the GAC, and the GAC shall communicate to Technology Council how it has addressed comments received. GAC shall submit each revision reaffirmation or withdrawal of existing PPIBs as an information item to ExCom. The GAC shall submit any new PPIBs to ExCom for approval along with background information describing how it addressed comments received from Technology Council or its designee. (22-02-02-15)

1.300.004   Archiving(12-06-27-19/12-10-26-11/22-02-02-15)

1.300.04.1 Position Documents
   A. The Technology Department shall maintain information concerning the history of development and approval of Position Documents.

   B. Position Documents are reviewed every 30 months and are automatically withdrawn if not reaffirmed or revised within 36 months of issue. Each version of a Position Document will contain the expiration date on the cover. (22-02-02-15)

   C. Current Position Documents will be posted on the ASHRAE website for free download.

   D. Technology Council shall maintain the current list of Position Documents on the ASHRAE website.

1.300.004.2 Public Policy Issue Briefs (17-06-28-11/22-02-02-15)
   A. Government Affairs Committee shall manage the current list of Public Policy Issue Briefs by evaluating each at least on an annual basis and formally decide to re-affirm, amend, or let expire and remove, each brief, subject to the approval of the Executive Committee of the ASHRAE Board of Directors.

B. The Government Affairs Committee shall be responsible for archiving, publication and distribution of Public Policy Issue Briefs. GAC shall maintain and annually review each PPIB and determine whether to update or rescind it. PPIBs will include the date of creation or update. (23-02-08-02/22-02-02-15)

BACKGROUND: Technology Council was given an action item to provide additional clarification on which governing body approves actions related to ASHRAE position documents. These changes will require changes to the Technology Council MOP and Reference Manual if approved by the Board of Directors.

Tech C Vote: 18-0-0, CNV

Secretary's Note: Susanna Hanson left, bringing the number of voting members to 18.

B. Special Projects

Costas Balaras, Special Projects Chair, presented the report. The report is posted on Basecamp as *04B_SpcProj_Report_to TechC_2024_10_29_Final.docx*.

Mr. Balaras highlighted the following information items:

1. Subcommittee members and liaisons have been assigned as SP Champions to the projects from the CEBD Projects List shown below. SP Champions are collaborating with the CEBD champions to best coordinate work on the projects they are assigned to.

List of CEBD Project List Ideas – Opportunities

a. **Refrigerant Leakage Database**
   Bruce Nelson, REF bruce.nelson@gmail.com
b. **Harmonize Standards – Decarb**
   Justin Prosser, STDS justin.prosser@danfoss.com & Philip Fairey, RBC philip.fairey@gmail.com
c. **Streamlined Building Codes**
   Kashif Nawaz, TAC nawazk@ornl.gov
d. **Member Needs Research Project** (Handled be CEBD)
   Heather Schopplein, DRC hschopplein@gmail.com
e. **Develop Equipment PCRs (Product Category Rules)**
   Kevin Mercer, TAC kevin.mercer@rheem.com
f. **Whole Life Carbon Benchmarking**
   Heather Schopplein, DRC hschopplein@gmail.com
g. **Update Equipment Lifespan Tables**
   Mark Fly, SP SubCom At-Large Member markwfly@gmail.com
h. **Standardize Whole Life MEP Carbon Calculations**
   Corey Metzger, DRC corey.metzger@resourcece.com
i. **Whole-Life Carbon Options Tool**
   Lisa Ng, EHC lisa.ng@gmail.com

j. **Embodied & Operational Carbon Fugitive Trade Off Studies**
   Heather Schopplein, DRC hschopplein@gmail.com
k. **Update H.P. Performance Testing Requirements**
   Philip Fairey, RBC philip.fairey@gmail.com Kashif Nawaz, TAC nawazk@ornl.gov Richie Mittal, DRC richiemittal@gmail.com
l. **A1-A3 Foundational Embodied Quantification MEP Methods**
   No champion yet
m. **Guide Updates/HP Sizing Tool (Defrost, Decarb)**
   Kashif Nawaz, TAC nawazk@ornl.gov
n. **New Guide Data Center Decarb**
   Devin Abellon, TechC V.C. dabellon@pwsigroup.com
o. **New Guide District Thermal Guide**
   Kevin Mercer, TAC kevin.mercer@rheem.com
p. **Single Family Guide**
   Devin Abellon, TechC V.C. dabellon@pwsigroup.com
q. **Circular Economy Gathering Survey**
   Lisa Ng, EHC lisa.ng@gmail.com
r. **Develop List of "Other" GHG Sources** i.e. Medgas; Sterilization Chemicals
   Richie Mittal, DRC richiemittal@gmail.com
s. **Design Guide Supermarket Decarb**
   Bruce Nelson, REF bruce.nelson@gmail.com

If interested as a member, committee, other entity, or can recommend other experts, please contact the SP champion.

   a.   Support may be provided by participating in the Project Management Group to:
- Create material, review material, participate in the project development team (if project will be internal to ASHRAE).
- Support Technical Reviews & Quality Control (if project will be external to ASHRAE)

   b.   SP Champions are reaching out to TCs, committees, experts, and other cognizant bodies to identify interested members/parties to interface with CEBD. A short presentation on Special Projects Subcommittee's work was given during a recent TAC meeting.

   c.   CEBD developed two-page extended summaries for the initially higher ranked projects to further elaborate the existing and gap of knowledge.

2.   Ongoing work – Next steps

   a.   Review and provide feedback on the available two-page summaries developed by CEBD.

   b.   Prioritize projects based on responses and interest generated from the deep dive.

   c.   Develop/propose a budget for the more mature projects that CEBD will present and request from the BOD at the Orlando Winter Conference.

C. Document Review Subcommittee (DRSC)

David Abellon, DRSC Chair, presented the report. The report is posted on Basecamp as *04C-DRSC Rprt to TechC.F24.docx*.

It was moved by Mr. Abellon that:

M2

Technology Council recommends that the BOD approve the revision to the *Energy Efficiency in Buildings* position document (PD).

BACKGROUND: The revised position document was approved by the position document committee (PDC) and is included as **04C-Attachment A**.

DRSC approved an earlier version of this PD in November 2023. Tech Council reviewed earlier versions of the position document in January 2024 and March 2024, but did not approve. This revision considers comments received. This PD was distributed to Tech Council and Board of Directors on 10/18.

The PDC requested changes to the title, purpose, and scope (TPS). These changes, approved by ASHRAE's Executive Committee in July 2024, are included as **04C-Attachment B.** It was approved by a DRSC vote of 4-2-1.

Tech C Vote: 16-0-1[1], CNV

It was moved by Mr. Abellon that:

M3

Technology Council reaffirm the *Limiting Indoor Mold and Dampness in Building Position Document*.

Tech C Vote: 17-0-0, CNV

Mr. Abellon highlighted the following information items:

1. EHC's Policy and Advocacy Subcommittee reviewed the *Combustion of Solid Fuels and Indoor Air Quality in Primarily Developing Countries* **(04C-Attachment D)** and recommended that it be reaffirmed**.** DRSC has not formally considered a motion as EHC met after the DRSC meeting.

2. EHC is expected to develop a proposal to initiate an early revision the *Infectious Aerosols* PD in the near future.

5. STANDING COMMITTEE REPORTS

A. Standards Committee (StdC)

Doug Fick, StdC Chair, presented the report. The report is posted on Basecamp as *05A_StdC Report to TC Fall Meeting 2024.docx.*

It was moved by Mr. Fick that:

M4

It is recommended that the following Title, Purpose and Scope (TPS) be approved and a new Guideline Project Committee be formed.

Title: Operational Best Practices for Air Quality within Commercial Aircraft

Purpose: This guideline serves as a companion to ASHRAE Standard 161 by describing operational best practice recommendations to assist air carriers to meet or exceed Standard 161 requirements.

Scope:

2.1 This guideline applies to commercial passenger air-carrier aircraft carrying 20 or more passengers and certified under the authority of either the US Federal Aviation Administration or another cognizant air worthiness regulatory body.
2.2 This guideline considers cabin air contaminants, thermal conditions, and related factors such as humidity and pressure that may affect air quality.

---

[1] Heather Schopplein abstained

Background: This TPS will also have to be approved by Technology Council. This TPS was submitted by Judith Anderson for consideration at the Fall meeting. PPIS assigned the TC 9.3 as the cognizant technical committee and SSPC 161 will be the cognizant project committee. Ben Thiesse was recommended as the Chair of the proposed new project committee. There are at least five members willing to volunteer. Standards Committee issued a letter ballot to approve the original TPS on October 11, 2024 and received two negative votes, which prompted a conference call on October 18, 2024 to discuss the negative votes and amend the TPS. The submitters of the TPS were on the call in response to the submission. The original letter ballot closed on October 18, 2024 (22-2-0-4,CNV) and a vote to amend was taken on the conference call to approve the TPS as written above. StdC Vote 16-0-0,CNV.

Tech C Vote: 17-0-0, CNV

It was moved by Mr. Fick that:

M5

It is recommended that IBPSA be approved as a cosponsor of Proposed ASHRAE Standard 229P, *Protocols for Evaluating Ruleset Application in Building Performance Models*, with ASHRAE as the lead.

Background: IBPSA cosponsors ASHRAE standards 209, 140 and 232P.

StdC Vote: 23-0-1, CNV

Tech C Vote: 17-0-0, CNV

Mr. Fick highlighted the following information items:

1. Standards Committee approved the following for publication on October 11, 2024 via conference call:
   a. ANSI/ASHRAE Addendum *n* to ANSI/ASHRAE Standard 62.2-2022*, Ventilation and Acceptable Indoor Air Quality in Residential Buildings*
   b. *ANSI/ASHRAE/IES Addendum w to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings*
   c. ANSI/ASHRAE/ICC/USGBC/IES Addendum *a* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2023, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*
   d. *ANSI/ASHRAE/ICC/USGBC/IES Addendum f to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*

2. Standards Committee ExCom has been reviewing respective subcommittees (SPLS, PPIS, CIS and SRS) to identify tasks/activities assigned to the

committee and determine if we are currently implementing that task/activity. StdC anticipate changes to the procedural documents to come forward at the Winter meeting.

3. ASHRAE is currently undergoing an ANSI audit. ANSI will be auditing twenty standards plus all appeals since the last ANSI audit. Materials are due to ANSI by November 18th.

B. Research Administration Committee (RAC)

Natascha Milesi-Ferretti, Chair of RAC, presented the report. The report is posted on Basecamp as *05B-RAC-Rprt to TechC.F24.doc*.

Ms. Milesi-Ferretti highlighted the following information items:

1. RAC reviewed 2 new and revised RTARs submitted by the TCs at the 2024 Fall Meeting. 2 were <u>accepted with comments</u>. Those RTARs that are accepted w/comments will be added to the Society's Research Implementation Plan and developed by the sponsoring TC into a work statement for bid.

2. RAC reviewed 5 work statements at the 2024 Fall Meeting. 2 were <u>conditionally accepted</u> and 3 were <u>returned</u>.

3. RAC approved 7 Tentative Research Projects (TRP) and 1 Work Statement Publication (WSP) to be released for bid in Fall. Projects were posted October 15th.

4. RAC is developing some improvements to the research development process in the following areas:
   a. Implementation of using confirmed potential bidder information and contacts to increase research project bids
   b. Formalizing process to identify and confirm potential research project co-funding sources and timelines
   c. Working on budget estimating guidelines to TCs to improve budget accuracy
   d. Working to develop data format and transfer guidelines to assure transfer of usable research project data
   e. Online database for RTARs, WSs and TRPs is now in testing phase.

C. Technical Activities Committee (TAC)

Kevin Mercer, the Chair of TAC, presented the report. The report is posted on Basecamp as *05C-TAC Rprt to TechC.F24.docx*.

Mr. Mercer highlighted the following information items:

1. TAC has three liaisons to the Center of Excellence for Building Decarbonization (CEBD) and continues to support by connecting TC experts to specific projects identified by the CEBD.

2. TAC continues to consider balance on Functional Groups (FG) and has proposed interest categories as a starting point. TAC recognizes that certain FGs could need more or different interest categories depending on the scope of their work. TAC continues to review this process.

3. TAC is working with YEA on their mentoring program and will help mentor YEA members by connecting them to TAC and TC members. A presentation will be made at the TC Breakfast in Orlando.

Secretary's Note: Richie Mittal left, bringing the number of voting members to 17.

D. Environmental Health Committee (EHC)

Marwa Zaatari, the Chair of EHC, presented the report. The report is posted on Basecamp as *05D-EHC Rprt to TechC.24F.docx*.

It was moved by Ms. Zaatari that:

M6

Technology Council approve that ASHRAE Staff be requested to create an infection control webpage.

BACKGROUND: It is estimated that 10 hours of staff time per month would be necessary to create and maintain page. (See EHC Report for more background and details). The plan is for a single location for resources and content on infection control, similar in design and purpose as the Epidemic Task Force (ETF) website. MOTION 1 VOTE: 11-0-0 CNV PASSED

Tech C Vote: 16-0-0, CNV

Ms. Zaatari highlighted that EHC approved its 2024 Trends and Research Gaps report and reported at the Annual Meeting. EHC is awaiting feedback on how this report is being used by BOD and others in ASHRAE.

Max Sherman explained how and why EHC obtains this report. However, if nothing is being done with the report's results, than perhaps EHC should discontinue it.

Secretary's Note: Heather Schopplein left, bringing the total number of voting members to 16.

E. Refrigeration/CPCC (REF-CPCC)

Doug Scott, the Chair of REF-CPCC, presented the report. The report is posted on Basecamp as *05E-REF-CPCC Rprt to TechC.F24.docx*.

Mr. Scott highlighted the following information items:

1. During this SY, REF-CPCC will be making changes in its committee organization and operations, intended to increase outcomes and

effectiveness for both ASHRAE and committee members and liaisons, beginning with efforts to align with current ROB. Increased emphasis will be placed on coordination with US and global organizations, greater strategic focus, and active outbound refrigeration-related communications.

2. The review committee for the *Refrigerants and their Responsible Use* Position Document met last on October 3. Revisions are underway. The expectation is to have a partial draft ready in advance of Orlando for review by REF-CPCC members, with a final draft to DRSC in advance of the Phoenix Annual Meeting. The PD expires June 28, 2025.

3. A previous REF-CPCC broad data collection effort has been refocused to create a brief titled Global Trends in Refrigeration Technology, with subcommittee work underway, led by Andrew Beall. Bruce Nelson will contribute European and other information.

4. In Indianapolis, REF-CPCC voted to pursue a new ASHRAE PD on Sustainable Cold Chain, with Steve Kujak to lead efforts to propose a TPS for review at Orlando. Work has not begun. Disposition will be determined prior to Orlando.

5. Support of refrigeration at chapter and region level is an active discussion, with actions are still to be determined, but likely related with a more active ASHRAE refrigeration web page and information cadence.

6. Bruce Nelson is the REF-CPCC liaison to Special Projects committee to support efforts related to the new CEBD. REF-CPCC is supporting two projects:
   a. "Refrigerant Emissions Management, Tracking and Compliance"
   b. "Decarbonization Strategies for Supermarket Industry Archetypes"

7. The first project will likely build on DOE database efforts. The second project could utilize the now somewhat outdated 50% Grocery AEDG and has high importance considering the rapid changes in this sector.

8. REF-CPCC submitted a forum on "Use of New A2L Refrigerants in Cold Storage Applications" and was approved for Orlando.

Secretary's Note: Marwa Zaatari left, bringing the total number of voting members to 15.

F. Residential Building Committee (RBC)

Rachel Romero, the Chair of RBC, presented the report. The report is posted on Basecamp as *05F_RBC Rprt to TechC_October 2024_Final.docx*.

It was moved by Ms. Romero that:

M7   Technology Council approve $21,000 from FY 2025-2026 for a stakeholder's workshop to be held at the 2025 Building XVI Conference. RBC approved the motion 12-0-0.

BACKGROUND: As part of the Residential Building Committee's charge to identify trends and opportunities in the residential sector, the Residential Buildings Committee is requesting the Technology Council approve their request to host a one-day long stakeholders workshop at the 2025 Building XVI Conference set for December 8-11, 2025, in Clearwater Beach, Florida. The workshop will take place on December 7, 2025.

In 2014, ASHRAE held its first stakeholders workshop to identify key stakeholders in the residential sector and how its expertise could best support it. This led to the formation of the Residential Ad Hoc Committee (now known as the Residential Buildings Committee). Subsequent stakeholder workshops were held in 2016 and 2020 where various stakeholders within the residential industry gathered and engaged in group sessions to identify industry gaps and needs of the residential sector.

This workshop is a key initiative in advancing RBC's 2024-2029 Strategic Plan, which focuses on three critical areas for the residential market: Decarbonization, Indoor Environmental Quality (IEQ), and Resilience. It will provide a platform for engaging diverse stakeholders from industry, government, and academia to:
- Review and discuss progress on RBC's strategic goals, including decarbonization and building performance standards.
- Share updates on recent activities and research aimed at improving the sustainability and resilience of residential structures.
- Gather input from stakeholders on actions ASHRAE should prioritize to address gaps in financial tools, standards, and education needed to meet decarbonization and IEQ objectives.

The workshop strengthens ASRHAE's role as trusted resource in the residential sector and aligns with ASHRAE's broader goals by facilitating collaboration between the public and private sectors, promoting ASHRAE technical leadership in residential building performance, and advancing the implementation of ASHRAE's strategic priorities in this critical market.

The goals of the workshop are:
- To provide stakeholders an update on what ASHRAE activities have occurred as a result of the input from the last workshop;
- To provide an opportunity for some stakeholders to present their recent activities focusing on improved performance of residential structures; and,
- To again listen to stakeholders on possible actions ASHRAE should take to address the needs of this critical market sector.

RBC would reach out stakeholders from the list shown below that was generated from the RBC Strategic Plan that was approved at the 2024 Annual Conference. RBC is looking to host approximately 64 attendees. In addition to the attendees, RBC members and ASHRAE Staff will also be in attendance.

Staff Impact: Work hours for ASHRAE Staff attending the workshop and marketing for the event.

Tech C Vote: 14-0-1[2], CNV

Ms. Romero highlighted the following information items:

1. RBC is reviewing the two new webpages created by ASHRAE Marketing. The Communications Subcommittee completed the new RBC website templates for residential content and committee operations. The full committee approved the templates by a vote of 9-0-0, CNV at the 2024 Annual Conference in Indianapolis, Indiana.

2. RBC extended the deadline for accepting nominations for the 2024-2025 Residential Buildings Service Award to November 1, 2024.

G. Global Technical Interaction Committee (GTIC)

Ashish Rakheja, the Chair of GTIC, presented the report. The report is posted on Basecamp as *05G_GTIC Report to TechC Meeting Oct 2024.docx*.

Mr. Rakheja highlighted the following information items:

1. Status of GTIC MBOs for Society Year 2024-25:
    a. Mine the membership survey results data and identify tasks to be undertaken - Ongoing
    b. Prepare a video/presentation and reach out to all International Chapter leaders to communicate on GTIC objectives and seek their participation - Ongoing
    c. Seek research ideas from global chapters & communicate to RAC - Ongoing
    d. Hold programs at ASHRAE Winter and Annual Conferences on GTIC activities and international standards - Ongoing
    e. Implementation of ASHRAE-UNEP cooperation plan with respect to National Ozone Units (NOUs) - Ongoing
    f. Set up a bridge between two or three countries/regions and work for adoption/development of building decarbonization technical resources - Open
    g. Review ASHRAE signed MOUs with international organizations and create a line of communication for identifying adoption/adaptation of ASHRAE technical resources - Ongoing

2. The first draft of Membership survey results has been analyzed. Total number of respondents were 60 plus and the summary has also been shared with CEBD. The committee is now working on creating recommendations and summarizing the findings.

3. The committee is working on creating a pool of champions in each of the

---

[2] Rachel Romero abstained

international regions and select countries. Some of these have been identified.

4. Training was held on ASHRAE ISO standards and ASHRAE participation for TC & PC Chair breakfast at summer meeting and another similar presentation on another topic is planned for the upcoming winter meeting at Orlando.

5. GTIC acted as a clearing house for processing the request from UNEP Grenada National Implementation Plan (NIP). The recommendations are provided to ASHRAE UNEP coordination committee.

6. Formal liaisons with Government Affairs Committee (GAC) and ASHRAE Associate Society Alliance (AASA) were created.

   Secretary's' Note: There wasn't time to present the GTIC survey, so it will be looked at during the Winter Conference.

6. SPECIAL COMMITTEE/LIAISON REPORTS

A. Government Affairs Committee (GAC) Liaison Report

Heather Schopplein, GAC Liaison, left the meeting early and no report was given

B. Finance Liaison Report

Mr. Conlan, Finance Liaison had nothing new to report due to the Finance Committee having not met.

C. Society Planning Liaison Report

Devin Abellon, Society Planning Committee (PLC) Liaison, informed the Council that the latest draft of the Strategic Plan has been uploaded to Basecamp as *06C_Att. A- 2025-28 ASHRAE Strategic Plan Draft.pptx*. The new section is the four initiatives. PLC is figuring out the role of Tech Council moving forward.

D. Society Rules Committee

Heather Schopplein left the meeting early and no report given

E. DEI Subcommittee

DEI Subcommittee has met several times this year. With the amount of money approved by the BOD at the Annual Meeting, they plan to operate in a more sustainable fashion for the year, which includes working on taking existing toolkits and streamlining to a more cohesive presentation for many of the materials. The committee will also be making a motion at the BOD fall meeting to rename to

IMPACT.

7. **<u>AD HOC REPORTS</u>**

8. **<u>AI STATEMENT</u>**

Please be aware and make sure to remind your committee members of the ASHRAE Policy on the prohibited use of AI in creating ASHRAE content. This would relate to the development of new documents or revising or updating existing documents, development of research project RTARs or work statements, articles for the journal, or general content for the committee. Thank you for aligning with the policy. If there are questions, please reach out to ASHRAE staff.

9. **<u>DOT REPORT</u>**

No report.

10. **<u>2025-2028 ASHRAE STRATEGIC PLAN</u>**

See report from Society PLC Liaison.

11. **<u>NEW BUSINESS</u>**

There was no new business.

12. **<u>EXECUTIVE SESSION</u>**

There was no business for Executive Session.

13. **<u>NEXT MEETING</u>**

Tech Council will meet on Wednesday, February 12th, at 9am EST during the Winter Conference in Orlando, Florida.

14. **<u>ADJOURN</u>**

The meeting was adjourned at 1pm EST.