



**TECHNOLOGY  
COUNCIL  
Spring Meeting  
April 17, 2023**

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

## MOTIONS

### Technology Council Spring Meeting Motions

April 17, 2023

Motion Number	Motion
<u>1</u>	OPS recommends Technology Council recommend to the Board of Directors that Rule of the Board 2.303.01.1, Technology Council Membership be revised as shown in the OPS Report Motion One.
<u>2</u>	OPS recommends to Technology Council ("TechC") that the TechC MOP and Reference Manual be revised as shown in the attachments (DRAFT TechC MOP (rev06) and DRAFT TechC Reference Manual (rev05)).
<u>3</u>	DRSC recommends that Tech Council recommend that BOD ExCom initiate a revision to the Position Document on <i>Energy Efficiency in Buildings</i> .
<u>4</u>	DRSC recommends that Tech Council grant an exception to the Technology Council MOP, Attachment B, Section 3.2b be made so that 10 members can be appointed to the Position Document Committee on <i>Energy Efficiency in Buildings</i> .
<u>5</u>	DRSC recommends that Tech Council appoint the following chair and members to serve on the <i>Energy Efficiency in Buildings</i> Position Document Committee as shown in the DRSC Report Motion Two.

**ACTION ITEMS**  
**Technology Council Spring Virtual Meeting**  
**April 17, 2023**

AI#	Responsibility	Status	Description
<a href="#">1</a>	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
<a href="#">1</a>	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.
<a href="#">2</a>	REF-CPCC	Open	Add the international members they want to engage into its MOP or Reference Manual.
<a href="#">3</a>	Sarah Maston	Open	Create a letter addressing the importance of DEI and the direct links.
<a href="#">4</a>	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
1	Council Members	Open	Provide feedback for future strategic plans to Ms. Thomle prior to the Ops meeting in October.

**Action Items**  
**Technology Council Summer Meeting**  
**June 29, 2022**

AI#	Responsibility	Status	Description
1	Tech Council members	Open	Review the proposed PASA and Rules of the Board changes from

			Standards Committee prior to the Fall OPS meeting and send comments to Staff.
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**Minutes**  
Technology Council

<p><b><u>Voting Members Present:</u></b> Sarah Maston, Chair Ashish Rakheja, Vice Chair</p> <p>Adrienne Thomle – OPS Chair Carl Huber Christopher Phelan Costas Balaras David Yashar – Special Projects Chair Larry Smith Luke Leung Wade Conlan Wei Sun</p> <p><b><u>Non-voting Present:</u></b> Bill Bahnfleth -EHC Vice Chair Bill Murphy- Craig Messmer – TAC Chair Jonathan Humble- StdC Vice Chair Nick Clements – EHC Chair Omar Abdelaziz – RAC Chair Stephen Kujak- REF-CPCC Vice Chair Susanna Hanson – StdC Chair</p>	<p><b><u>Staff</u></b> Stephanie Reiniche, DOT Connor Barbaree, Sr. MOS Steve Hammerling, MOT Derrick Nesfield, MOSP Mike Vaughn, Sr. MORTS Amber Thomas, Administrative Assistant</p> <p><b><u>Guests</u></b> Mike Pouchak Douglas Fick</p> <p><b><u>TechC Absent:</u></b> Paul Francisco – VM Steven Sill – VM Tyler Glesne – VM Bill Healy – NVM Chandra Sekhar – NVM Dustin Lilya – NVM James Bennett – NVM</p>
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**1. CALL TO ORDER/OPENING COMMENTS**

Chair Maston called the meeting to order at 9:02 A.M. EST. 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 10 voting members, including the Chair at the start of the meeting.*

*All reports referenced in the minutes are on Basecamp in the folder "2023-04-17 Spring Web Call."*

**2. REVIEW OF AGENDA**

A. Agenda Review

The agenda was approved as presented

### **3. MINUTES/ACTION ITEMS**

#### A. Tech C Winter Meeting Minutes – 03A

It was moved by Larry Smith and seconded by Costas Balaras that the Technology Council Atlanta Winter Meeting minutes be approved.

#### **MOTION PASSED by Acclamation.**

#### B. Action Items

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

### **4. REVISION OF TECH COUNCIL GOVERNING DOCUMENTS**

Larry Smith thanked the ad hoc committee members and staff for their help in revising the Tech Council governing documents. The motions were discussed in detail during the the OPS report. Staff will request that this be added to the Board of Directors agenda for the May 22, 2023 meeting.

### **5. STRATEGIC PLANNING**

#### A. Strategic Plan – Mid-Term Update

Ms. Maston will post the Society Strategic Plan Mid-Term Update in Basecamp. The standing committees were asked to review this and consider it when updating this Society year's MBOs and preparing MBOs for the 23-24 Society Year.

#### B. Review HVAC Summit Summary

The report is lengthy and there is an executive summary. Everyone is encouraged to look through it. It was also reported that next year's society theme is all about decarbonization.

### **6. SOCIETY STRATEGIC PLAN FEEDBACK**

**A1** An action item was assigned to Amber to send out the feedback on Society addressing AI technology.

### **7. TFBD UPDATE**

The committee is strategizing what will happen next year, which may include planning to go beyond 6 people. There is more to come on this and the TFBD updates will be shared to the Technology Council Basecamp when available.

## 8. SUBCOMMITTEE REPORTS

### A. Operations (OPS)

*Secretary's Note: Wade Conlan joined. There are now 11 voting members.*

Adrienne Thomle, OPS Chair, presented the report. The report is posted on Basecamp as O4A OPS Report to TechC V2.docx.

It was moved by Ms. Thomle that:

M1

OPS recommends Technology Council recommend to the Board of Directors that Rule of the Board 2.303.01.1, Technology Council Membership be revised as shown:

#### 2.303.01 MEMBERSHIP

##### 2.303.01.1

The members of this council are as follows:

- A. Chair: A Vice President of the Society
- B. Vice Chair: A Vice President of the Society
- C. Voting Members: Chair, Vice Chair, up to five (5) Directors, the Chair of each committee reporting to this council. plus the following positions elected by the Board of Directors:
  - 1. One (1) past voting member each from Research Administration, Standards, Technical Activities, and the Board of Directors (past DRC)
  - 2. Three (3) at-large members
- ~~D. Non-Voting Members: Chair of each committee reporting to this council, plus The vice chair of each committee reporting to this council. Environmental Health; Research Administration; Refrigeration Technology Committee for Comfort, Process, and Cold Chain; Residential Buildings; Standards; and Technical Activities Committees. (11-02-02-42)~~

##### 2.303.001.2

05-02-10-23)

At-large members are chosen for their past broad experience and expertise. At Large members should consider maintaining residential, refrigeration and environmental health experience on the council.

**Background:** A Technology Council ad-hoc was created to review the existing Council Policies and Procedures as part of the Society Streamlining efforts. As part of this process, it was determined that it would be appropriate to have the Chairs of the Standing Committees that report to Tech Council to be voting

members of the Council. This would increase the number of the voting members from 14 to 19. This will also need to be reviewed by the Society Rules Committee and approved by the Board of Directors. This mirrors changes that are in the proposed rewrite of the Technology Council MOP.

**Fiscal Impact:** None. There will be no increase in the amount of transportation reimbursement because the Standing Committee Chairs are already reimbursed. The meeting room needs for the Council won't change.

**Staff Impact:** None. This change won't affect staff time.

**TechC Vote: 10-0-0, CNV**

It was moved by Ms. Thomle that:

**M2**

OPS recommends to Technology Council ("TechC") that the TechC MOP and Reference Manual be revised as shown in the attachments (DRAFT TechC MOP (rev06) and DRAFT TechC Reference Manual (rev05)).

**Background:**

A TechC ad-hoc committee was created to review the existing MOP and Reference Manual as part of the Society Streamlining efforts. Member of the ad-hoc are:

1. Larry Smith
2. Carl Huber
3. David Yasar
4. Paul Francisco
5. Victor Goldschmidt
6. Sarah Maston
7. Wade Conlan

The current TechC MOP approved September 2019 contains 33-pages, 10,281 words, and 94 "shall's". In an on-going streamlining effort, and to help with a paradigm shift to enable TechC to be more responsive and effective, it was decided to start over with a "clean-sheet" re-write.

The proposed DRAFT TechC MOP is completely rewritten so a track change version is not available. It now contains 6-pages, 1,536 words, and 39 "shall's". The MOP was rewritten to include only the most important duties and responsibilities of the TechC; all the "how to" and "best practices" have been being moved to the DRAFT Reference Manual.

In addition, the current Reference Manual's 29-pages and 6,424 words has been updated in the new proposed Draft to 37-pages, 11,455 words with no "shall's", however, contains 139 "should's". What was deleted from the proposed DRAFT MOP was moved to the DRAFT Reference Manual and re-organized. It is the opinion of the ad-hoc committee that the DRAFT Reference Manual will always be in continuous maintenance and reflect the best practices and lessons learned as TechC moves into the 21<sup>st</sup> century. It is currently 90%+ complete, however, we are still trying to determine sections that have been there for years, however,

never followed.

If the DRAFT MOP is approved by OPS and TechC this will also need to be sent for final review and approval by the Society Rules Committee. An advance copy of the draft was sent to Society Rules Committee Chair and the comments were either accepted or indicated why the ad hoc that crafted the MOP changes did not agree. The DRAFT Reference Manual only requires the approval of TechC. Note that the Draft MOP was sent for review and comment right after the Atlanta Conference. Comments received were incorporated into this version and were not substantive.

**Fiscal Impact:** None.

**Staff impact:** 1 to 2 hours.

**TechC Vote:** 10-0-0 CNV

Adrienne Thomle highlighted the following information items:

1. Each Standing Committee reported their MBOs, as well as whether they had input for the 2025 Strategic Plan. The following was shared:
  - a. There is not any mention of Specific Cold-Chain/Refrigeration related issues.
  - b. In relation to the Vision Statement, using the word “sustainable” should be covering health since health is part of the sustainability agenda.
  - c. In relation to core values, the following need to be considered:
    - i. Inclusiveness
    - ii. Agility (Responsiveness)
    - iii. Universality
  - d. As part of the strategic objectives, there is a merit to have one objective in relation to connecting industry with international agenda covering topics of:
    - i. Food security (Cold Chain)
    - ii. Health
    - iii. Sustainable Production and Consumption
    - iv. Future cities
    - v. Employment and Decent Jobs
2. Three new videos are coming to the DEI website: *Microaggressions*, *Equality and Equity*, and *Cultural Confidence*. Each is less than thirty minutes, and it is strongly encouraged that all committee members participate in the training. Note you will need to sign in with your ASHRAE login to view these videos.



## B. Document Review Subcommittee (DRSC)

Ashish Rakheja, Chair of DRSC Chair, presented the report. The report is posted on Basecamp as 05B-DRSC Rprt to TechC.23Spring.docx.

It was moved by Mr. Rakheja that:

**M3**

DRSC recommends that Tech Council recommend that BOD ExCom initiate a revision to the Position Document on *Energy Efficiency in Buildings*.

**BACKGROUND:** TC 7.6 Building Energy Performance is the cognizant committee of the existing Position Document (PD) on *Energy Efficiency in Buildings*, last updated in 2014, and recommended to DRSC that the PD be revised. The current Position Document has been reaffirmed as of February 2023, with a new expiration date of July 2024. The eventual PD committee will determine if changes should be made to the Title, Purpose, and Scope (**Attachment A of the DRSC Report**) dated September 14, 2014. The revision will accomplish the following:

- revise and update the formatting of the document to align with current ASHRAE formatting standards.
- revise and update the content to address the focus on carbon emission reductions both globally and within ASHRAE and the role that energy efficiency has to play within carbon reduction efforts.
- revise and update the content to highlight the recommendations directed towards specific audiences, including policymakers, owners, design professionals, and operators in new buildings and existing buildings, and the ASHRAE membership.

**TechC Vote: 10-0-0, CNV**

It was moved by Mr. Rakheja, that:

**M4**

DRSC recommends that Tech Council grant an exception to the Technology Council MOP, Attachment B, Section 3.2b be made so that 10 members can be appointed to the Position Document Committee on *Energy Efficiency in Buildings*.

**BACKGROUND:** Technology Council MOP, Attachment B, Section 3.2b states the following:

“3.2 Members of the Committee shall be selected by the Position Document Committee Chair with the approval of the DRSC and Tech Council. Membership shall satisfy the following criteria:

...

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. The intent is that all members are classified as voting members of the Committee.

...”

The additional members are to help fulfill the balance requirements and to assure adequate technical representation and expertise and perspectives including residential and international.

**TechC Vote: 10-0-0, CNV**

It was moved by Mr. Rakheja, that:

**M5**

DRSC recommends that Tech Council appoint the following chair and members to serve on the *Energy Efficiency in Buildings Position Document* Committee:

- **Jim Kelsey (Chair)** – GENERAL - kW Engineering, Oakland, CA, USA
- **Barry Abramson** – USER - Servidyne, Atlanta, GA, USA
- **John Constantinide** – PUBLIC - United States Space Force, Merritt Island, FL, USA
- **David Eldridge** – USER - Grumman Butkus, Chicago, IL USA
- **Fredric Goldner** – GENERAL - Energy Management & Research Associates, East Meadow, NY, USA
- **Adam Hinge** – GENERAL - Sustainable Energy Partnerships, Tarrytown, NY, USA
- **Dennis Landsberg** – PUBLIC - L&S Energy Services, Inc., Henderson, NV, USA
- **Rafael Pérez Cortines** - PRODUCER - Daikin Europe, Sevilla, Spain
- **Kagen Singham** – GENERAL - Enerlife Consulting, Toronto, Ontario, Canada
- **Eric Yang** – GENERAL - Vantage Data Center, Ashburn, VA, USA

**BACKGROUND:** These individuals have a plethora of experience in industry and within their TC 7.6 Technical Committee involvement. Their affiliation, location, and balance indications are listed below their name. No specific products or product types are included in the content of this position document. Members across geographies are included to align with the diversity efforts of ASHRAE. Members represent multiple facets of the HVAC&R industry. ASHRAE Bios for the proposed members are included as **Attachment B of the DRSC Report**.

**TechC Vote: 10-0-0, CNV**

**9. STANDING COMMITTEE REPORTS**

**A. Standards Committee (StdC)**

Susanna Hanson, Chair of Standards Committee, had nothing to present. Standards will be having a meeting later in the week. She reminded everyone that some standards related items will no longer be coming to Technology Council anymore due to approved changes to PASA.

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

Omar Abdelaziz, Chair of RAC, intends to keep the research advisory panel subcommittee. Once the plan is done, RAP will disband. However, he would like to recommend that RAC keep this as a standing committee.

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

Craig Messmer, the Chair of TAC, thanked the committee for new members.

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

Nick Clements, the Chair of EHC, uploaded the report to Basecamp as 06D\_EHC Rprt to TechC\_April 2023.docx. The following information items have been highlighted:

1. PD on Health and Wellness in the Built Environment roster is being voted on with the ballot closing on April 26, 2023.
2. EHC has a ballot out to approve recommending reaffirmation, with edits to current position document format, of the Indoor Air Quality Position Document, the Unvented Combustion Devices Position Document and the Indoor Air Quality Position Document. It is anticipated that EHC will also recommend reaffirming, with edits to match the current position document format, foron the Environmental Tobacco Smoke Position Document prior to summer meeting. Assuming these are reaffirmed, EHC will work on finding participants to update these position documents during the next Society year.
3. Epidemic Task Force Subcommittee has made progress on synthesizing the output of ETF guidance documents.

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

Dustin Lilya, the Chair of REF-CPCC, was unable to attend.

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

Bill Healy, the Chair of RBC, was absent but uploaded the report to Basecamp as 06F\_RBC Rprt to TechC\_April 2023.docx. The following information items have been highlighted:

1. Building on an effort to identify key issues facing the Residential sector, RBC launched an effort to develop a 5-year Strategic Plan. A brainstorming session was held on April 3, 2023, to identify key issues in the following topics: Decarbonization, IEQ, and Resilience. Another

meeting is being planned for May 2023 to help narrow down the key activities that RBC will undertake in the upcoming years to promote ASHRAE products that address the key issues in these areas.

2. A team from RBC re-engaged with staff from the ASHRAE Journal to restart the Residential Applications Column. We have sporadically had columns but have not published any in nearly a year. A list of topics is ready for writing or submittal.
3. An RBC member is hosting an online campfire for Region II that will test ways to gather input from Chapter members on needs from ASHRAE in the Residential sector. RBC is also planning to meet with CEC during the Tampa meeting to identify best ways to engage with Chapters on Residential topics.

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

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

Christopher Phelan, GAC Liaison, highlighted that programs are successful. GAC has written a few letters in the past few months, including letters to Congress and state governments (Minnesota, Maryland, North Dakota, etc.).

### **B. Finance Liaison Report**

Ms. Maston reported that chapter level treasurer training is currently happening. She will be getting budget requests shortly.

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

Wade Conlan asked that everyone read over the PLC Report which is on Basecamp as 10C\_PLC Rprt to TechC\_April 2023.docx.

### **D. Society Rules Committee**

SRC is working on a new Reference Manual, as well as a new Manual of Procedures template for when updating MOPs. These will be shared when available.

### **E. DEI**

Steve Sill was not on the call. DEI is working with Alice Yates and Lionel Davis from the National Society of Black Engineers to put together an MOU for the NSBE and ASHRAE to help student chapters.

## **F. TFBD**

The industry is looking for leadership in the HVAC side for decarbonization. The TFBD had a planning session in early April for the strategy for the next society year as the projects under the TFBD are completed. After the next year the TFBD will be moved some where within the current ASHRAE structure.

## **11. NEW BUSINESS**

Ms. Maston announced that bEQ is currently requesting to join TAC as an MTG. They are currently working to identify liaison groups. This may be a letter ballot so that it can be given to the Board at the May 22<sup>nd</sup> meeting. More to come later.

## **12. EXECUTIVE SESSION**

There was no business for Executive Session.

## **13. NEXT MEETING**

Tech Council will meet on Wednesday, June 28<sup>th</sup>, at the Annual Conference in Tampa, Florida.

## **14. ADJOURN**

The meeting was adjourned at 9:57 am EST.