

**Residential Buildings Committee  
Atlanta Winter Conference  
Meeting Minutes  
Monday, February 6, 2023  
9:00 AM - 11:00 AM EST**

**ATTENDANCE**

<b>Voting Members:</b>		<b>Guests:</b>	
William Healy – Chair (2023)	X	Zach Londo	X
Chandra Sekhar – Vice Chair (2023)	X	Roy Crawford	X
Carol Marriott – Process Chair (2024)		Neal Kruiz	X
Rachel Romero – Communications Chair (2024)	X	Kevin Herreman	X
Michael Blanford (2024)		Walter Robison	X
Steven Emmerich (2024)		Dave Burd	X
Philip Fairey (2025)	X	Jason Lafluer	X
Jaap Hogeling (2025)	X	Lance MacNevin	X
Mark Lawrence (2025)	X	Scott Grefsheim	X
Bjarne Olesen (2023)	X	Angel Smith Neal	X
Michael Pouchak (2025)	X	Windell Cox	X
Steve Saunders (2023)		Darryl Boyce	X
Yashkumar Shukla (2023)	X	Jim Pegues	X
		Kaylee Meschke	X
<b>Ex-Officio Members:</b>		Emma Hannaford	X
Adrienne Thomle – Board Ex-O	X	Robert Bean	X
		Ray Rite	X
<b>ASHRAE Staff:</b>		Costas Balaras	X
Derrick Nesfield – Staff Liaison	X	Kristen Cetin	X
Lilas Pratt	X	Hao Dong	X
		Noah Dreiling	X
		DeWayne Jenkins	X
		Iason Konstantzos	X
		Ralph Koerber	X
		AuraLee MacPherson	X
		Ashish Rakheja	X
		Sierra Spitulski	X

## PRINCIPAL MOTIONS

**Motion #1:** Mike Pouchak moved, Chandra Sekhar seconded that the meeting minutes from full committee meeting held on 12/15/2022 be approved as presented.

**Vote:** 6-0-1, CV

**Motion #2:** Rachel Romero moved, Mark Lawrence seconded, that the PAOE points recommendations for the PAOE subcommittee be approved as presented.

**Vote:** 8-0-0, CNV

## NEW AND OPEN ACTION ITEMS

### Full Committee

#### **February 6, 2023 – Atlanta Winter Conference Meeting (In-Person)**

- **AI 1: William Healy** to draft letter for RBC to go to the Standard Committee regarding Standard 15.2. Letter to be reviewed and voted on by the committee.

### Communication Subcommittee

#### **February 6, 2023 – Atlanta Winter Conference Meeting (In-Person)**

- **AI 1: Rachel Romero and Mark Lawrence** to continue work on storyboard for promotional video.
- **AI 2: Rachel Romero** to reach out to CEC for approval to post the seminar on RIBs the RBC Webpage.

#### **September 30, 2022 – Web Meeting**

- **AI 2: Rachel Romero** to find most recent copy of new RBC website draft and video draft.  
**On-going**

### Process Subcommittee

#### **January 18, 2023 – Web Meeting**

- **AI 1: Carol Marriott, William Healy, and Chandra Sekhar** to review of RBC Services Awards process to determine areas for a more streamlined process. **On-going**

#### **November 3, 2022 – Web Meeting**

- **AI 5: Staff** to confirm who on ASHRAE Journal staff is the contact for RBC and connect Mike Blanford, Carol Marriott, and Bill Healy. **On-going.** *Staff Note: We are waiting for confirmation because the Journal Editor is leaving ASHRAE after the Winter Conference.*

## MEETING NOTES

1. Call to Order – **Meeting convened at 9:01 AM EST (Quorum Achieved)**
  - a. Welcome & introductions

2. Review of Agenda (Healy) – ***Discussions on Standard 15.2 and TC 4.1 were added to the agenda***
3. Review of [Action Items](#) (Healy) – **Action Items reviewed**
4. Report from Staff (Nesfield)
  - a. Letter Ballot Results
    - Residential Issue Brief (***Working from Home***) – **Vote: 12-0-0, CNV**
  - b. Status of RBC Journal Article on VISB-RIB
    - Article has been reviewed by committee members and will be published.
  - c. Status of Task Force for Building Decarbonization and SPC 240P
    - Report sent by S. Reiniche via email (see attachment in below).
    - Philip Fairey provided an update on his meeting with TFBD (Task Force on Building Decarbonization). He noted that they are trying to move quickly and are looking for input from other committees.
    - Fairey stated that 90.2 actively pursuing a decarbonization addendum. The addendum is out for public review.
5. Approval of Minutes from December 15<sup>th</sup>, 2022 Full Committee Meeting (**Committee Vote**)  
(File: [12-15-22\\_CC\\_RBC\\_AGENDA\\_MeetingMinutes\\_FinalDraft](#))

**Motion #1:** Mike Pouchak moved, Chandra Sekhar seconded that the meeting minutes from full committee meeting held on 12/15/2022 be approved as presented.

**Discussion:** Correction noted -- 8. P.1A bullets should be listed as P.2A.

**Vote:** 6-0-1, CV

6. Report from BOD Ex-Officio (Thomle)
  - a. Winter Conference Presentation
    - Adrienne Thomle presented the Leadership Presentation for the Winter Meeting.  
**Note: PPT sent with minutes and uploaded to Basecamp.**
7. New Business
  - a. Creating a separate SSPC for Standard 15.2: Safety Standard for Refrigeration Systems in Residential Applications. (see Appendix)
    - Roy Crawford provided an overview of Standard 15.2's efforts to create a separate SSPC. Committee members asked questions and provided comments.
    - Lilas Pratt noted that RBC can't make a motion to Standards Committee but can write a letter to the committee.
    - Roy noted that RBC was formed to promote residential issues. He commented that if 15.2 were a separate committee, it would get more residential people involved and they would be able to get balance on the committee (which is not currently required on a subcommittee). – There would be a call for members.
    - Roy Crawford also noted that as a separate SSPC, better cognizant committees could be assigned.
    - Vice-Chair of Tech Council and Chair of SSPC 15 were in attendance and provided comments during Q&A about Standards 15.2.

**AI 1: William Healy to draft letter for RBC to go to the Standard Committee regarding Standard 15.2. Letter to be reviewed and voted on by the committee.**

b. TC 4.1 Load Calculations

- Jim Pegues of TC 4.1 was in attendance to discuss Chapter 17 of Handbook Fundamentals and commented that it has not been updated in roughly 8 – 12 years.
- Pegues also mentioned that a research project might be required to update the data. The industry is currently using ACCA (Air Conditioning Contractors of America) references for residential load calculations, but TC 4.1 believes ASHRAE could better advance this area through research.
- Pegues mentioned that an area of weakness is a lack of expertise in the residential industry/sector. TC 4.1 is seeking input from residential experts and guidance on current trends in residential sectors from ASHRAE and RBC.
- Philip Fairey and Yash Shukla agreed that it is important for ASHRAE to provide guidance in this area. Yash also noted that Chapter 17 is used both internationally and in academia and when updated it would be helpful to increase the global perspective.
- Listserve could be used in RBC's efforts to reach out the residential industry for experts.

c. Report from GAC Chair (Darryl Boyce)

- Darryl Boyce, GAC (Government Affairs Committee) Chair, was in attendance to discuss Government Affairs and wanting to expand into the residential sector.
- Boyce stated that a conference is set up in October to discuss Decarbonization in built environment and including residential in conference would help broaden the audience.
- GAC requests thoughts on how to approach govt agencies about residential issues.
- Suggest that Communications Subcommittee work with Darryl moving forward.

8. Communications Subcommittee Update (Romero)

a. **C.1A.** Add additional resources, videos, podcasts, etc. to website

- Feedback on a proposed promotional video motion was provided by S. Reiniche to Mark Lawrence prior to the meeting. The committee discussed what was needed to proceed with a promotional video.
- Lilas Pratt stated that the Marketing Department at ASHRAE could help with the video.

**AI 2: Rachel Romero and Mark Lawrence to continue work on storyboard for promotional video.**

b. **C.2A.** Develop Residential Issue Briefs as issues are identified.

- Working from Home brief was approved and to be posted on RBC webpage.
- Guidance document on Working from Home may be an offshoot of this effort.

**AI 3: Rachel Romero to reach out CEC for approval to post the seminar on RIBs the RBC Webpage.**

- c. **C.2B.** Provide input to Task Force for Building Decarbonization on unique needs of residential sector in the drive for decarbonization.
  - Bill Healy and Philip Fairey to continue discussions on this task. A subcommittee meeting on this task would be beneficial.
  - Philip Fairey provided more background on 90.2 efforts with decarbonization.
- d. **C.3A.** Complete revision of ASHRAE in the House presentation for use by Distinguished Lecturers.
  - Moving forward
- e. **C.3B.** Work with CTTC to determine needs of chapters for Residential Content. (**Note: Motion to be presented on PAOE points**)

**Motion #2:** Rachel Romero moved, Mark Lawrence seconded, that the PAOE points recommendations for the PAOE subcommittee be approved as presented.

**Vote:** 8-0-0, CNV

- 9. Process Subcommittee Update (Marriott) – **William Healy presented update in Carol Marriott's absence.**
  - a. **P.1A.** Develop process to solicit and track ideas for ASHRAE Journal features on Residential Buildings.
    - Sleep Quality and Working from Home journal articles are currently in progress.
  - b. **P.1B.** Complete assessment of RBC'S future role in Buildings Conference and developing tracks for Residential at ASHRAE Conferences. **Complete**
    - Bjarne Olseen's report on the Building XV Conference was completed and sent to CEC.
  - c. **P.2A** Develop a system to annually identify key issues facing residential sector to guide activities of committee.
    - Residential Topics Matrix developed by Mike Pouchak has been completed. A one-page report on the matrix will be added to the RBC Report to Tech Council.
  - d. **P.2B.** Work appropriate TC's to propose the development of new residential guidelines, standards, or guidance documents as needed.
    - Steven Saunders and Steven Emmerich to continue work on this task.
    - Follow up in future meeting.
  - e. **P.3A.** Nominate additional residential DL's.
    - Carol Marriott to continue work nominating residential DLs.

**Note:** *Bill Healy noted that Carol Marriott suggested a 5-year plan to provide more consistency in completing MBO goals when committee members change over time.*

10. Review of [RBC MBOs](#) (File: [RBC\\_22-23\\_MBOs\\_01-31-2023.xlsx](#)) – **Reviewed by committee**

11. Executive Session

- a. Residential Buildings Service Award (**Letter Ballot Results**) – **Vote: 10-0-2 CNV**
- b. Committee Appointments

12. Upcoming Meetings

- a. Full Committee: TBD
- b. Subcommittee Meetings: TBD

13. Adjourn – **Meeting adjourned at 11:01 AM EST**

---

**Residential Building Committee (RBC) Scope and Purpose from the Rules of the Board (ROB)**

---

**2.423.001 SCOPE AND PURPOSE**

This committee shall be responsible for identifying major residential trends impacting the practice of HVAC&R, informing the ASHRAE leadership and membership of these trends and their potential impacts, and making recommendations on new activities and policies in response to these trends. In addition, this committee shall serve as a resource to the Society on activities and issues that relate to residential impacts of building technologies including but not limited to ventilation, and thermal organizations that focus on residential buildings. The committee will be responsible for implementation of the residential aspects of the Strategic Plan.

---

**Acronym List**

---

ACCA – Air-condition Contractors of America  
AHRI – Air-conditioning, Heating and Refrigeration Institute  
AIA – American Institute of Architects  
ALI – ASHRAE Learning Institute  
BPI – Building Performance Institute  
CEE – Consortium for Energy Efficiency  
CM – Corresponding Member of TC  
CTTC – Chapter Technology Transfer Committee  
DL – Distinguished Lecturer  
DOE – US Department of Energy  
ETF – Epidemic Task Force  
GAC – Government Affairs Committee  
HUD – US Department of Housing and Urban Development  
ICC – International Code Council  
MBO – Management by Objective  
MTG – Multi-disciplinary Task Group  
NAHB – National Association of Home Builders  
NARI – National Association of the Remodeling Industry  
PCM – Provisional Corresponding Member of TC  
PPIS – Planning, Policy and Interpretations Subcommittee (under Standards Committee)  
RESNET – Residential Energy Services Network  
RBC – Residential Building Committee  
RP – Research Project  
RTAR – Research Topic Acceptance Request  
SPC – Standard Project Committee  
SSPC – Standing Standard Project Committee

TC – Technical Committee  
TPS – Title, Purpose, Scope  
VM – Voting Member

## ASHRAE Journal article/column Parameters

These columns/articles are intended to (a) educate ASHRAE members on key issues involving the arts and sciences of heating, ventilation, air conditioning, refrigeration, and their allied fields as they pertain to the residential sector, and (b) inform ASHRAE members of the role that ASHRAE and its members play in advancing the state of the residential building industry.

### Journal Column Parameters:

- Length is 1,500-2,000 words
- Reviewed by the Residential Building Committee.
- There is no further peer review.

### Journal Article Parameters:

- Length is 3000 words
- Reviewed by the Residential Building Committee
- Sent out for a peer review by Journal staff prior to publication.

### Process:

- Residential Building Committee (RBC) identifies topics of interest. The Journal Coordinator reaches out to potential authors.
- Authors submit initial draft. A Word version of manuscript is submitted to the RBC through the Journal Coordinator. Graphics, if any, should be included with the manuscript. However, there is no specific graphic format requirement for this draft.
- Residential Building Committee draft review. The Journal coordinator circulates the manuscript to Residential Building Committee members requesting comment and asking whether there would be any objections to publication in ASHRAE Journal. Any Committee comments are provided to the author by the Journal Coordinator.
- Authors submit final draft. If necessary, the author will make changes to the article based on comments received from the Journal Coordinator and resubmit draft.
- Upon approval of RBC, the Journal Coordinator sends message to ASHRAE Journal editor indicating approval of manuscript and asking editor to coordinate with author. For submittal, ASHRAE Journal requests a Word version of the text. Graphics shall be sent as separate files. ASHRAE prefers 300 dpi .jpg or .tif files on photos, or original Excel files if graphics were created in Excel.

### Timing:

- The finished column is due to ASHRAE during the last week of the 2<sup>nd</sup> month prior to the issue being published.
- For example, to be published in the March issue, the finished column would be due to ASHRAE by the last week of January.
- This column should have cleared all reviews from RBC.
- For adequate time for RBC review, it is suggested that authors get draft manuscripts to the Journal Coordinator by the start of the month.
- The manuscript is sent to RBC members with a request for review by the middle of the month.
- Articles will require a longer lead time due to the need for peer review. Plan on 6 months.



## Descriptions of Presentation Options

DL presentations can be on any subject – the speakers and topics just need to be submitted and approved. These are provided live, virtually or in person, at ASHRAE chapter meetings. Information on the DL program here: <https://www.ashrae.org/communities/chapters/distinguished-lecturers>

An ASHRAE Tech Hour can be any subject. The committee would just need to put together an idea and pitch it to CTTC. A Tech hour is a very specific type of recording for which CTTC (Chapter Technology Transfer Committee) uses some professional production crew folks. The length would need to be 45 to 60 minutes. See examples of previous Tech Hours here: <https://www.ashrae.org/professional-development/tech-hour-videos>

An ASHRAE Journal podcast is a new thing, is set up to be more conversational, and is an audio recording only (i.e., a podcast). This would go through Journal rather than CTTC, I believe that they probably also use some professional production crew folks for these. See examples of previous Journal podcasts here: <https://www.ashrae.org/news/ashraejournal/ashrae-journal-podcast>.

Lastly, there are seminars for the technical program at an ASHRAE conference. The next available technical program would be in Toronto at the 2022 Annual Meeting. Deadline for submitting program proposals is February 17, 2022. ASHRAE Technical programs are handled by CEC (Conferences and Expositions Committee). For more information: <https://www.ashrae.org/conferences/2022-annual-conference-toronto> and <https://ashraem.confex.com/ashraem/s22/cfp.cgi>

**Residential Building Committee 2022-23 MBOs**

MBO #	Description	Comments/Activities supporting MBO
1	<p><b>Increase visibility of ASHRAE content for the Residential Buildings sector to members and non-members</b></p>	<p><b>C.1A.</b> Add additional resources, videos, podcasts, etc. to website  <b>Lead:</b> Rachel Romero  <b>Priority:</b> Ongoing</p> <p><b>P.1A.</b> Develop process to solicit and track ideas for ASHRAE Journal features on Residential Buildings  <b>Lead:</b> Mike Blanford  <b>Priority:</b> Ongoing</p> <p><b>P.1B.</b> Complete assessment of RBC's future role in Buildings Conference and developing tracks for Residential at ASHRAE Conferences  <b>Lead:</b> Bjarne Olesen  <b>Priority:</b> Ongoing</p>
2	<p><b>Identify and address gaps and needed updates in ASHRAE residential information and resources</b></p>	<p><b>C.2A.</b> Develop Residential Issue Briefs as issues are identified.  <b>Lead:</b> TBD (either Philip Fairey or Jaap Hogeling)  <b>Priority:</b> Ongoing</p> <p><b>C.2B.</b> Provide input to Task Force for Building Decarbonization on unique needs of residential sector in the drive for decarbonization.  <b>Lead:</b> Bill Healy/Philip Fairey  <b>Priority:</b> Ongoing</p> <p><b>P.2A</b> Develop a system to annually identify key issues facing residential sector to guide activities of committee  <b>Lead:</b> Michael Pouchak  <b>Priority:</b> Ongoing</p> <p><b>P.2B.</b> Work with appropriate TCs to propose the development of new residential guidelines, standards, or guidance documents as needed.  <b>Lead:</b> Steve Emmerich/Steve Saunders  <b>Priority:</b> Ongoing</p>

<b>3</b>	<b>Improve engagement with Chapters on residential content</b>	<p><b>C.3A.</b> Complete revision of ASHRAE in the House presentation for use by Distinguished Lecturers <b>Lead:</b> Yash Shukla <b>Priority:</b> Intermediate</p> <p><b>C.3B.</b> Work with CTTC to determine needs of chapters for Residential Content. <b>Lead:</b> Mark Lawrence <b>Priority:</b> Ongoing</p> <p><b>P.3A.</b> Nominate additional residential DL's <b>Lead:</b> Carol Marriott <b>Priority:</b> Ongoing</p>
----------	--	--

**Email from Roy Crawford, September 16, 2022:**  
**Subject: Creating a separate SSPC for Std. 15.2**

Bill, Eric:

I would like to discuss ASHRAE Std. 15.2, Safety Standard for Refrigeration Systems in Residential Applications. The first edition of this standard was developed under SSPC15, with most of the work being done by the 15.2 Subcommittee, and was published earlier this year. Many members of the 15.2 Subcommittee now wishes to have a separate Standing Standards Project Committee (SSPC) set up to continue the maintenance of this standard in the coming years. The SSPC 15 main committee voted on a motion today to make this recommendations to Standards Committee, but it did not pass. Thus, I request that RBC and TC6.8 consider making a similar motion to Standards Committee that recommends forming a separate SSPC for 15.2. Here are several reasons why I believe this should be done.

- Standard 15 (Safety Standard for Refrigeration) has historically only covered commercial and industrial refrigeration and air conditioning applications. A separate standard for residential systems (15.2) was developed because of the unique safety requirements for residential systems as a result of the recent introduction of flammable (A2L) refrigerants. Because of this past history, the Main Committee members primarily represent commercial and industrial interests. The 15.2 Subcommittee has significant representation from the residential sector, but it should be noted that only 3 members of the 15.2 Subcommittee are voting members on the Main Committee. The chair of the 15.2 Subcommittee (Jim Vershaw) is not even a voting member of the Main Committee.
- The cognizant TC's for Std. 15 and 15.2 are currently TC10.1 (Customer Engineered Refrigeration Systems) and TC9.1 (Large Building Air-Conditioning Systems). I believe that TC6.3 (Central Forced Air Heating and Cooling Systems) and possibly TC8.11 (Unitary and Room Air Conditioners and Heat Pumps) are more appropriate cognizant TC's for Std. 15.2.
- The 15.2 Subcommittee spent a lot of time developing this standard and was significantly delayed by having to repeat much of this discussion with the Main Committee before they would approve it. Creating a separate SSPC for 15.2 would reduce these unproductive delays.
- There have been comments that the 15.2 Subcommittee is not balanced and that is true since it has a large number of equipment manufacturers on it. However, if a separate SSPC were formed, we would be required to be balanced and that would be good for everyone involved. The SSPC15 Main Committee may be balanced by the usual metrics, but it is very lacking in terms of voting members who are directly involved in the residential market.
- There have been some comments that there is overlap between Std. 15 and Std. 15.2, thus they should be under the same SSPC. There is precedence on separate SSPC's for residential applications such as SSPC62.2 and SSPC90.2. I am currently on SSPC62.2 and am a past member of SSPC90.2 and I believe the benefits of having separate SSPC's are significant and it is possible to keep these standards consistent with their commercial counterparts through appropriate liaisons.

In summary, I believe that forming a separate SSPC for 15.2 will further our goal of strengthening the presence of ASHRAE in the residential sector by not making this committee subservient to a commercially-dominated committee. Thus, I request that each of your committees make a request to Standards Committee to consider forming this new SSPC.

Thank you for your time.

Roy

## **Roy R. Crawford, Ph.D**

*Executive Director, Advanced Technology*

*North America Ducted Systems*



5005 York Drive  
Norman, OK 73069

Work: (405) 419-6598

Cell: (903) 245-6023

### **Updates from Stephanie Reiniche on the activities of the TFBD**

1. A revamped website launched on 2/3/23 ([www.ashrae.org/decarb](http://www.ashrae.org/decarb)).
  - Just an FYI – if there is residential decarb information that should be considered for posting please send that to Stephanie Reiniche ([sreiniche@ashrae.org](mailto:sreiniche@ashrae.org))
2. The presentation on updates that was shared during the TFBD meeting on 2/5/23 can be made available to RBC. Please let me know if you would like a copy.
3. The Building Performance Standards Technical Guide is now available for free [download](#).
4. The following guides are out for bid:
  - a. Heat Pump
  - b. Healthcare
5. The following guides have completed bids:
  - a. Grid Interactive (Under Contract)
  - b. Retrofit Guide (Bids under review)

6. At this meeting members of the task force are doing videos of members asking how decarb affects them. Other videos (1 to 3 minutes) can be submitted.
7. The Board approved a revision to the Strategic Plan Initiative One that adds decarbonization.
8. If guidance/advice is needed to address decarbonization activities please reach out through Stephanie Reiniche ([sreiniche@ashrae.org](mailto:sreiniche@ashrae.org)) or [decarb@ashrae.org](mailto:decarb@ashrae.org)
9. The TFBD has added decarbonization terminology to the website that have been shared with TC 1.6 to be added to the ASHRAE definition database. These definitions are based on internationally accepted terms.
10. TFBD worked with GAC on a PPIB on Building Electrification.
11. The TFBD is working on opportunities for industry collaboration.