



1791 TULLIE CIRCLE, N.E./ATLANTA, GA 30329
404-636-8400

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 3.6 DATE: June 25, 2024

TC/TG/MTG/TRG TITLE Water Treatment

DATE OF MEETING June 25, 2024 LOCATION Indianapolis, IN

MEMBERS PRESENT (7)	Status	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Joshua Ince – Chair	Voting	<u>In-person, NV Attendees (16)</u>	
Tania Ullah – Secretary	Voting	Wenhong Xue	Alberto Comazzi
Joe Ham – Programs	Voting	Alain Trahan	Amr Suliman (Int'l)
William (Bill) Pearson	Voting	Janet Stout	Brandon Gross
Harrison (Ruffin) Tyler	Voting	Ken Mortensen	Kristin Fletcher
Helen Cerra	Voting	Grace Pesselato	Shantanu Sonawane
Frank Morrison	Voting	Paul Lindahl	Michael Patton
		Henry Becker	Ng Yong Kong
Members Absent (9)	Status	Abraham Cullom	Tom Watson
Claressa Lucas			
Stu Asay		<u>Virtual, NV Attendees (3)</u>	
Jeff Boldt		Bob Silva	
Ron George		Erica Eskins Parker - Research	
Tyler Anderson - Research		Chee Ow (Int'l)	
Richard (Dick) Miller			
Clive Ling			
Clive Broadbent (non-quorum)			

Jon Cohen			
		Total Attendance	26

TAC Section Head:	SH3.6@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC at the next meeting.

Agenda

1. CALL TO ORDER

Josh calls to order @ 1.03pm.

2. ROLL CALL & INTRODUCTIONS

3. ASHRAE Code of Ethics Commitment

“As members of ASHRAE or participants in ASHRAE activities, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.

We will avoid conflicts of interest and behavior that is discriminatory and/or harassing.”

4. REVIEW OF AGENDA

5. APPROVAL OF MINUTES (2024 Winter Meeting Chicago)

Helen Cerra moved to approve, Bill Pearson seconded. 6 in favor, 0 nay, 1 abstain (chair not voting)

(There was actually no quorum established, so whether Chicago minutes have been approved is in doubt.)

6. REVIEW OF SECTION 3 BREAKFAST MEETING – Ince

- Access the information on Basecamp.
- ASHRAE created a code interaction subcommittee (sub-comm of ASHRAE Standards committee) to do more hand-in-glove work with codes bodies. This is meant to speed things along and make sure well-written standards are passed.
- The CEC are putting a call out for people to help design the tracks as they are getting a little stale. Please contact ASHRAE staff member Tony Giometti (Giometti@ashrae.org) if interested.
- The presidential elect’s new theme is related to Healthy Buildings, which is right up our alley. Tom Watson suggests us to get involved.
- Michael Patton: Association of State Drinking Water Administrators (ASDWA) wanted to get more information on Standards 514 and 188 and Guideline 12.
- RTAR acronym stands for “Research Topic Acceptance Request.”
- ASHRAE will roll out TC position emails (again)!

7. SECTION 3 CHAIR REVIEW – Tina Brueckner

Did not attend.

8. MEMBERSHIP REPORT – *Ince/Ullah*

5 members (Bill Pearson, Jeff Boldt, Dick Miller, Frank Morrison, and Josh Ince) are rolling off. 4 members (Erica Eskins, Ken Mortensen, Janet Stout, and Alberto Comazzi) rolling on after this meeting. We will have 15 VMs.

9. LIAISON REPORTS – ASHRAE / AWT / CTI / OTHERS

9.1. Relevant Codes and Standards Reports

9.1.1. ASHRAE Guideline 12 and Standard 188 - *Patton*

9.1.2. CTI Guideline 159 – *Helen Cerra*

Summer meeting to be held July.

9.1.3. ASHRAE Standard 189P

9.1.4. ASHRAE Standard 191P – *Patton*

Name is “Efficient Use of Water in Building Mechanical Systems.”

Standard 191P went out for public review. The committee will address comments and the standard will be published after 12 years of work. Two paths are included - performance and prescriptive.

9.1.5. ASHRAE Standard 90.1 – *Lindahl*

SSPC 400, to include Standards 514 and 188 and Guideline 12, is approved. Liaison report is on Basecamp. An organizing meeting will take place after picking members, probably before the Winter meeting in Orlando.

90.1 approved increase of minimum efficiency from 40.2 to 42.1.

9.1.6. ASHRAE Standard 514 – *Mortensen and Patton*

The SSPC 400 application is live ([here](#)). SPC 514 members are already automatically enrolled. Existing 188 members are NOT.

Application does not include an indication of which subcommittee you would prefer to work with. Submit preferences in the notes section. Make sure bios and profiles and conflict of interest statement are up to date when applying. If you received a confirmation, then you have successfully signed up.

Discuss with other interested members from your organization about who should be voting members (VMs).

Each subcommittee will have VM and NVM members, that is separate from who is VM on the SSPC 400 committee.

9.1.7. ASSE/IAPMO/ANSI 12080 – *Stout*

To date, 600 individuals have been trained.

9.1.8 Task Force for Building Decarbonization – *Boldt*

Name change to “Center of Excellence for Building Decarbonization.”

We need a new liaison, any volunteers? Please contact TC leadership.

9.1.9 AWT – *Pearson*

Banquet will be held in Louisville, KY in Sept. Meetings will continue with hybrid options. Check <https://www.awt.org/> for more information.

9.1.10 New liaison for 2.8 Building Energy Impacts and Sustainability – Energy/Water Nexus subcommittee - *Ullah*

10. HANDBOOK - *Trahan*

10.1. Handbook Subcommittee Update

The subcommittee have had several meetings so far. They worked to improve the structure of the new chapter. Alain will work to adjust content. Group will continue to meet every 3 weeks or so. Connection with the Handbook liaison was made on Sunday at the TC 3.6 subcommittee meeting.

Patton: Authoring a design guide (30-40 pages) on ultra-/high-purity water systems (which is outside the scope of the Handbook) will be helpful for the industry. Guide will become a part of ASHRAE’s publications. Pub Ed council can contribute funds.

ANSI/AAMI ST108:2023 Water For The Processing Of Medical Devices does not fall within the ASHRAE scope. Helen to talk to Michael Patton about it.

10.2. Goals for next edition/rewrite

11. RESEARCH – *Anderson/Eskins*

Erica presented slides. The chairs are trying to get traction on submissions that are lingering.

PTAR002 – Guidelines for State Codes on Supplemental Water Treatment Systems for Buildings.

Submit to Co-Sponsors and have them vote on revisions (revised version has been sent by Tyler but is also in TC 3.6 Basecamp)

- GAC- Jon Cohen?
- EHC- Jon Cohen?
- SSPC 188- Mike Patton? Will put it on a recirculation ballot to be completed by Fall. ASDWA would be interested in this

WS 1930 - Investigation into sensible ranges for potable hot water temperatures to maximize public safety while balancing water and energy conservation.

- Returned with comments
- WS authors working on addressing comments and revising where needed
- Hopefully completed for vote either before or at the next meeting

11.1. Research project update

Co-sponsoring TC9.06: WS1889

Graywater use in healthcare facilities- determining risk and appropriate design responses

- PES voted to approve a bidder
- Waiting to have approved bidder announced and get started with PMS actions

11.2 New topics: water and decarbonization ideas are encouraged. Please contact Erica and Tyler

- Effects on piping from short-term, high-level disinfection (potable and non-potable)- Tyler to talk with Rob; MOU from Lubrizol, ASPE as another co-sponsor?
- Water demand calculator- Tania still interested, two other people in TC6.6 to write it up, using water demand calculator to go into buildings to assess parameters
- Energy Analysis of Buildings with v. without water systems (TCs 8.6, 2.8) (NEW)- how do buildings using water systems compare in carbon emissions to those that do not have water systems? Cradle to Grave analysis on Carbon Emissions for two similar buildings
- Role of Water in Decarbonization (NEW)- How can water systems be designed and treated to contribute to carbon neutrality and what challenges may need to be mitigated as a result? water treatment design, plumbing system designs, water conservation=stagnation, lower flow, higher risk of Legionella growth

Anyone interested in deep diving into the relationship between decarbonization and water systems?

Email new ideas to tyler.Anderson@chemagua.com and erica@watermanagementadvisors.com

11.3 How to Write an RTAR- 6 simple steps!

1) **What is being proposed?**- background information that led to the question at hand

3) **Why is this research important?**- what is answering this question going to contribute to the industry?

4) **How will the research be conducted?**- general structure of how this question can be answered: Clear Objectives (what goals should the researcher meet to answer the question?), Research Style (modeling, literature review, field studies, etc.)

5) **Why should ASHRAE fund it?**- connection with Research Strategic Plan (can be found in the TC 3.6 Research Subcommittee Resource folder)

6) **Estimated funding need?**- how long would a project like this take and in general, how much would it cost?

-literature reviews- ~\$50,000

-field studies and modeling may have more costs associated

Tyler and Erica are happy to assist once an RTAR is drafted

11.4 Shelved research topics

12. PROGRAM – *Ham*

We haven't quite fit into the recent tracks, but perhaps with new "Healthy Buildings" focus, we can have more sessions accepted. The Program Chairs can propose sub-tracks in the future.

12.1. Programs at this meeting

Submitted a session for this meeting, but not approved.

12.2. Programs for Upcoming Meetings

- Orlando tracks were reviewed. Any previous proposed sessions that can be tweaked for upcoming conference? There was one on Water Reclamation (with Josh/Joe as chair, Janet speaking). That will be revisited.

- We have a lot of ideas, but we need active participants to help strategize topic(s) for decarbonization. Helen, Alain, Ken and Frank have volunteered.
- Standards are often a track. Perhaps when Standard 191 comes out, a session focused on that can be submitted. Michael says we aren't quite there yet.
- A program on the high-purity water systems topic? Alain volunteered to work with Joe on it.

13. Digital Chair (Website and Basecamp) UPDATE – *Trahan*

13.1. Up to date

Basecamp and website continues to be updated.

14. SOCIAL NIGHT REPORT – *Ron George*

14.1. Appointment of Social Night Chair for Orlando Winter Meeting 2025

We did not have a formal social night this year. We will need to appoint a new chair. This one will be on the Sunday night of the conference. Brandon Gross has volunteered!

15. OLD BUSINESS

16. NEW BUSINESS

16.1 Decarbonization discussion – where can our TC inject ourselves to ensure water is properly considered in all solutions?

16.2 Vice chair is an open position. The official job is to herd the subcommittees and assist the chair. Every now and then, they stand in for the chair. The term is 2 years.

17. DATE AND LOCATION FOR NEXT MEETING

Winter Meeting – Orlando, Florida, February 8-12, 2025

18. ADJOURNMENT

Josh adjourned @ 2:43pm.