



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 27, 2023

TC/TG/MTG/TRG TITLE Water Treatment

DATE OF MEETING June 27, 2023 LOCATION Tampa, FL

MEMBERS PRESENT	Status	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Joshua Ince – Chair, virtual	Voting	Alain Trahan - Handbook	<u>Virtual Attendees</u>
Tania Ullah – Sec, virtual	Voting	Ron George	Joe Ham - Programs
William (Bill) Pearson	Voting	Henry Becker	Ken Mortensen
Claressa Lucas	Voting	Paul Lindahl	Bob Silva
Clive Broadbent - virtual	Voting	Tina Brueckner – Section 3 head	Chee Sheng – Sec3 Research Liaison
Richard (Dick) Miller - virtual	Voting	Janet Stout	Powell Davis – Sec3 Research Liaison
Frank Morrison	Voting	Annette Dwyer	Jim Kendzel
Tyler Anderson - virtual	Voting	John Aykroyd	Riley Freeman
Clive Ling	Voting	Michael Patton	Brandon Smith
Helen Cerra	Voting	Tom Watson	
	<b>10</b>		<b>8</b>
<b>Members Absent</b>	<b>Status</b>		
Harrison (Ruffin) Tyler	Voting	<u>In-person Guests</u>	
Jon Cohen	Voting	Hywel Davies	

Jeffrey Boldt	Voting	Philip Yu	
Scott Shaffer	Voting	M. Farooq Saeed	
	4	13	
		<b>Total Attendance</b>	<b>31</b>

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

## Agenda

### 1. CALL TO ORDER

### 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 (2023 Winter Meeting Atlanta)

Unanimous approval of all present voting members (9 at the time of voting)  
All in favor 9, 0 objections, 0 abstentions

### 6. SECTION 3 CHAIR REVIEW – *Tina Brueckner*

Introduced herself. Activity report will be sent to her following meeting.

### 7. RAC update – *Powell Davis*

WS 934: there was lots of interest in the three interlinked topic areas (temperature for scalding safety, energy efficiency, minimizing Legionella risk). RAC would like more clarity on what the proposal will produce. Guidance on heat pumps and/or scalding? It was not entirely clear. Clarify that all three concerns would be addressed by maintaining target temperatures.

Committee’s feedback to RAC: currently there is no target temperature range to satisfy all three concern areas. The proposal’s intent is not to focus on the heat source (must be irrespective of technology), but rather the temperatures produced by the technology.

Chee’s remarks: Work statement has been returned at the last meeting. Critique was that it is literature search, not a research proposal as written, although Chee disagreed. Chee feels that proposal is best as a RTAR, not PTAR. Therefore,, WS must be revised and resubmitted.

### 8. REVIEW OF SECTION 3 BREAKFAST MEETING – *Ince*

#### Presentation

- 8.1. Task Force for Building Decarbonization – if you are interested in being a liaison to task force or its committees, let Josh know.
- 8.2. Technical Guide Series Schedule
- 8.3. 2023-24 Board of Directors
- 8.4. Membership news
- 8.5. Overview of ASHRAE org chart. More info is on [www.ashrae.org](http://www.ashrae.org).

### 9. MEMBERSHIP REPORT – *Bill Pearson*

Updates to the roster will be sent in this week by Josh. Bill: voting members that are rolling off will do so on July 1, 2023, so they can still vote today. If you have questions about your membership,

you can ask Bill Pearson or Josh Ince. Additionally, your membership status on all committees is shown on the [www.ashrae.org](http://www.ashrae.org) website.

## 10. LIAISON REPORTS – ASHRAE / AWT / CTI / OTHERS

### 10.1. Relevant Codes and Standards Reports

#### 10.1.1. ASHRAE Guideline 12 and Standard 188 - *Patton*

Approved

#### 10.1.2. CTI Guideline 159 - *Cerra*

Meeting at CTI Summer workshop. No changes (edits or updates)

#### 10.1.3. ASHRAE Standard 189P

No updates

#### 10.1.4. ASHRAE Standard 191P – *Patton*

No updates

#### 10.1.5. ASHRAE Standard 90.1 and TC 8.6 – *Lindahl*

Document that was sent before the meeting was reviewed.

#### 10.1.6. ASHRAE Standard 514 - *Mortensen*

#### 10.1.7. ASSE/IAPMO/ANSI 12080 – *Stout*

It is now available online in time for the August recertification.

#### 10.1.8. Task Force for Building Decarbonization - *Boldt*

### 10.2. AWT – *Bill Pearson*

Second annual conference was held in Grand Rapids, MI. Technical training sessions were held in February (San Diego) and March (Pittsburg).

## 11. HANDBOOK - *Trahan*

This TC is responsible for Chapter 50. 2023 printing was just released. Subcommittee will get going on changes for next handbook. Not all illustrations were included for printing because of lack of permissions and low resolution, but these can be resolved in the next edition. Major review will be due in Jan 2027. Monthly/bi-monthly meetings with volunteers to follow.

## 12. RESEARCH – *Anderson/Eskins*

12.1. WS 934: returned with feedback. Will be revised and resubmitted.

12.2. PTAR 002: currently getting co-sponsorship votes.

12.3. Potential TC 9.6 gray water research topic: TC 3.6 is co-sponsoring

12.4. New RTARs: Erica has sent out emails reminding the champions to write up the proposals. Erica or Tyler can help edit.

## 13. PROGRAM – *Ham*

13.1. No program for this conference

13.2. Potential program for next meeting in Chicago, working title: Water Treatment Considerations for Water Reclamation/ Water reuse (Josh/Joe as chair, 3 speakers)

13.3. Three topic areas: microbial considerations (Janet Stout), plumbing (Ron George), and need a volunteer (water treatment expert) to speak about water quality, water chemistry. Please contact Joe Ham if interested.

13.4. Reminder that speakers need to attend conference in person.

13.5. Once the program submittal is written up, will clear with the TC. August 2<sup>nd</sup> is the due date.

- 13.6. Motion to submit the 90-min (3 speaker) seminar to Track on Fundamentals: Bill Pearson, Helen Cerra seconds motion. All in favor 10 VMs, 0 objections, 0 abstentions
- 13.7. TC 8.6 may approach TC 3.6 on a program for Chicago: Automation of cooling tower operation. Water treatment from an automation aspect. John potential speaker, let Joe Ham know if you want to participate.

**14. DIGITAL RESOURCES CHAIR – *Alain Trahan***

Alain will get oriented with website with Josh's help. We will be depositing documents onto and using message board on Basecamp.

**15. SOCIAL NIGHT REPORT –**

Thanks to Ron George for organizing Monday night dinner in Tampa, FL. He will send out group photo shortly.

Appointment of Social Night Chair for Chicago Annual Meeting. Ron George volunteers again but requests a reminder closer to the date!

**16. OLD BUSINESS**

**17. NEW BUSINESS**

Jeff Boldt received the Exceptional Service Award!

Frank to email Josh Ince and Bill Pearson with draft of Title 24 document, TC can share comments

Decarbonization discussion: although we may not have a direct link to the topic right now, we should consider unintended consequences of decarbonization measures on water and water treatment. If you are active on other committees, please act as liaison for this committee to get water-related issues into the conversation.

**18. DATE AND LOCATION FOR NEXT MEETING**

*Winter Meeting – Chicago, IL, January 20-24, 2024*

**19. ADJOURNMENT**

Adjourned by Josh at 2:46pm.