



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 January 23, 2018

TC/TG/MTG/TRGTITLE Water Treatment

DATE OF MEETING January 23, 2018 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Helen R. Cerra	2017	Claressa Lucas	2017	Johnsua Ince
Clive Broadbent	2017	William McCoy	2014	John Aykroyd
Robert Cunningham	2017	Richard Miller	2015	Henry Becker
Tim Keane	2017	Leon Shapiro	2014	Sarah Ferrari
Clive Ling	2014	Ron Wood	2016	Jeff Ramey
Frank Morrisson	2015	Michael Patton	2017	Tom Mastbaum
Patrick Racine	2017			Janet Stout
Alain Trahan	2016			Allyn Troisi
Ruffin Tyler	2017			Peter Freeman
Dan Weimar	2017			Thomas Mastbaum
Todd Cornwell	2015			Ken Mortensen
William Pearson	2015			James Kendzel
				Andrew Ward
				Joe Ham
				Jay Kohler
				Tyler Anderson
				Patsy Root
				Brandon Gross
				Daryn Cline
				Steve Kujak
				Thomas Pape

TC 3.6 Management Team	
Chair	Helen Cerra
Vice Chair	Patrick Racine
Program	Jon Cohen
Handbook	Michael Patton
Research	Todd Cornwell
Membership	Bill Pearson
Webmaster	Joshua Ince

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:	
TAC Section Head: Jay Kohler	SH3@ashrae.net
CTTC Liaison: Tracey Jumper Research Liaison: Stephen Kujak Professional Dev. Liaison: James Bochat Handbook Liaison: Harris Sheinman Standards Liaison: Niels Bidstrup	CTTC3@ashrae.net RL3@ashre.net PDCchair@ashrae.net hba5@ashrae.net SL3@ashrae.net
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and are not the official approved record until approved by this committee.



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Helen Cerra
HelenC@chemtreat.com
Chair TC 3.6

Patrick Racin
patrick.racine@eldonwater.com
Vice Chair TC 3.6

ASHRAE TC3.6 Agenda - 2018 Winter Conference Chicago Winter Conference, Chicago, IL USA

Main TC 3.6 Meeting

Tuesday, January 23, 2018, 1:00-3:30 PM, Logan, 3 floor

TC 3.6 Handbook / Program / Research

Sunday, January 21, 2018, 3:00-5:00 PM,

TC 3.6 Sponsored Technical Program

Seminar 19

Navigating Changing Landscape of Regulation codes and “Best Practices” around Legionella and Building Water Safety – Monday January 22, 2018 @ 08:00 AM

Scope:

Technical Committee 3.6 is concerned with water treatment for building water systems (except sewage drainage systems) and the impact of water treatment on building operations and maintenance, water and energy efficiency, human health, and water resource conservation in the applications of these systems.



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Main TC 3.6 Meeting Agenda

1. CALL TO ORDER

Chair called the meeting to order at 1:01 PM

2. ROLL CALL & INTRODUCTIONS

Quorum was met at 10/18.

3. Chair reviewed the ASHRAE CODE OF ETHICS COMMITMENT

In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)

4. REVIEW OF AGENDA – no changes to agenda. Discussed the Subcommittee time change.

5. APPROVAL OF MINUTES (*2017 Long Beach – June 2017*)

Bill Pearson moved to approve, Todd C second. Unanimous, CNV

6. SECTION 3 CHAIR REVIEW – *Jay Kohler*

Jay offered his services for any questions and reinforced that the TC website contains much training content. Frank Morrison congratulated Jay on being named ASHRAE Fellow

7. REVIEW OF SECTION 3 BREAKFAST MEETING – *Helen Cerra*

Chair reviewed notes from the Section 3 meeting.

- History of society paper
- 90.1 Available for free until March 15
- Authoring Portal
- Base camp 3 – store/organize committee files
- Survey – research
- CEC – Presentations were not uploaded on time – not a TC3.6 issue

8. MEMBERSHIP REPORT – *Bill Pearson*

8.1. Bill Pearson reviewed the TC membership and status of those rolling on and off.

8.2. Membership is 4 yrs. You must roll off for at least one year.

8.3. To join committee, you must join online first as provisional corresponding member – self generated, you must do yourself

9. Allyn T – Update on TC8.6 that needs additional voting members (Mondays on 2:15-4:15). The rest of the meetings will be moved online/remote.



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10. RESEARCH – *Todd Cornwell*

Steve Kujak – is our liaison.

- 10.1. Research project update – work statement on Investigation into sensible temperatures for potable hot water temperatures to maximize public safety, water and energy conservation. RAC met and “returned” back to committee on confusion for why we need the research... “could the committee do it on their own?”. Also felt \$ amount was high for a research of literature. Phone conference in March if we can submit before that. Todd to work with group (Tim K, Alain T, Ron G, Claressa, Jeff B,) and with Steve Kujak to resubmit. Steve suggested we don’t focus on too many co-sponsors – this can delay due to increased voting at committees. Helen thanked Steve for his support this project.
- 10.2. Research project ideas for two other potential projects:
 - 10.2.1. Secondary Disinfection Methods – Similar in scope and methods for the NCD projects to test different methods of secondary disinfection (bleach, monochloramine, Cu/Ag, Clo2, others?) – Janet stated that the debate continues efficacy (or lack of), decisions on hot water vs. cold water systems. Project to provide data on: Measuring kill rate, but also corrosion, by products, etc... - Proposal Evaluation Subcommittee. Todd to spearhead – Josh Ince, Alain Trahan, Tim Keane, Arthur F, Janet Stout, Joe Ham, Jim K, John Cohen
 - 10.2.2. Compendium on regulations by state – Todd to work on this and circulate draft RTAR to the full committee. Review of regulatory landscape by state on requirements for adding secondary disinfection and corrosion inhibitors in a building.

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

- 11.1. Relevant Codes and Standards Reports
 - 11.1.1. ASHRAE Guideline 12 – Helen C reported that the committee reviewed over 600 comments (in November 2017). Now working on second document being worked on to be sent to public review.
 - 11.1.2. CTI Guideline 159 - Working group chair, H. Cerra reported – waiting on one section.
 - 11.1.3. ASHRAE Standard 189P – Daryn Cline made comments regarding addendum that was rejected regarding models and material for CT. Being re-written and submitted for comments. This addendum will probably make 2020.
 - 11.1.4. ASHRAE Standard 191P – A. Troisi discussed 191 went for public review. Originally included all water usage in building water system - that scope has been narrowed. This is now an HVAC/Cooling System based standard. 110 comments from public review. 70 editorial, remainder were in opposition of the standard being published. Standard committee met to work on a process toward 2nd public review. Reorganize the standard, and bring irrigation back in.



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11.1.5. Thomas Pape commented on the differences between 189 and 191. Discussion on impact on Cooling Towers.

11.1.6. ASHRAE Standard 90.1 – F. Morrison discussed potential proposal on doubling efficiency. Adding dry cooler requirements. Next edition is 2019. Title 24 is moving to 45 day review. Increased efficiency to 60 gpm per HP. Strengthened the limits on air cooled chillers. Requirement for adiabatic condensers. Change pending ASME pressure boiler code – CTI, 8.6, providing comment on this.

11.2. ASHRAE Legionella Position Document Status (*M. Patton home sick...*) – Janet Stout reported back on the Environmental Health Committee. J. Stout will follow up with committee and M Patton

12. HANDBOOK – *Michael Patton - absent*

12.1. Handbook Subcommittee Update –Ruffin, Henry Becker, Pearson and Boldt are working to review this. Ruffin will add Henry's content. Ruffin & Henry will work on this.

12.2. Discussion on potable water – tabled to new business.

13. PROGRAM – Josh Ince on behalf of *Jon Cohen*

13.1. Successful seminar 19– 95 people attended –

13.2. Programs for Upcoming Meetings

13.2.1. Resubmit the Debate idea for Atlanta – Abstract for the legal debate will be submitted. 8.6 will co-sponsor – Alain T Motion: John will polish and resubmit. Second: Todd C. unanimous.

13.2.2. Conference Paper for Atlanta – Quebec Dataset – correlation between water test results and legionella results – Patrick Racine: Alain T Motion by conference paper on Quebec Data set: Bill -second – carried unanimous CNV

13.2.3. For Houston – 2.8 co-sponsorship (Bill P, Allyn T) – Motion (Bill P) that TC 3.6 cosponsor 2.8 seminar in Houston "Using Water Quality to Influence Energy Efficiency". Speakers would be: Allyn Troisi – Filtration (remove physical contaminants), Bill Pearson – Water Treatment (remove pathogens), Jonathan Garrick – Controls/Optimization (maintaining performance), Chair would be Fred Betz of 2.8. Second Frank M. Unanimous CNV

13.2.4. For Houston – secondary disinfection (Janet S, John C, Tim K, chair: Dan W.) – co sponsored by 8.6 – Tim K. motion: To do seminar in Houston (3 speakers -90 minutes): "Building Water Disinfection for Legionella: What's an end user to do?" Second: Bill P. Unanimous



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14. SOCIAL NIGHT REPORT – *Jeff and Rob – 32 attendees*

- 14.1. Chair recognized Jeff and Rob for their great organization of dinner at the Italian Village
- 14.2. Tyler will be Social Night Chair for Houston Meeting.

15. OLD BUSINESS

- 15.1. Tim K suggested adding section in handbook for secondary disinfection – Tim K. & Josh I, Janet S, Tom M. will work on this for our May deadline

16. NEW BUSINESS –

- 16.1. Andrew Ward, NSF – Legionella conference May 9-11th. Call for abstract – Feb 23rd for poster session. More info - www.legionella2018.org. Bill P will be representing ASHRAE in guideline and standard discussion
- 16.2. Frank M – 189 sub-committee motion: To reconstitute the subcommittee on Standard 189.1 that will develop a continuous maintenance proposal to update the water treatment requirements for evaporative heat rejection requirements in standard 189.1. Bill P second. Unanimous - CNV. Frank M, Josh I, Daryn, Ken, Joe Ham, Dan W., Jeff Bolt

17. DATE AND LOCATION FOR NEXT MEETING

Summer Meeting – Houston Hilton Americas – Houston TX, USA – June 23-27, 2018

18. ADJOURNMENT Chair adjourned at 3:02 PM.