(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, 2019
TC/TG/MTG/TRG TITLE     Water Treatment

DATE OF MEETING     JUN 25, 2019    LOCATION     Kansas City, MO

<table>
<thead>
<tr>
<th>MEMBERS PRESENT</th>
<th>YEAR APPTD</th>
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<th>EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE</th>
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<tr>
<td>Helen Cerra</td>
<td>2017</td>
<td>Ron Wood</td>
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<td>Joshua Ince</td>
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<td>Patrick Racine</td>
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<td>Claressa Lucas</td>
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<td>Clive Broadbent</td>
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<td>William Pearson</td>
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<td>Dan Weimar</td>
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<td>Henry Becker</td>
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<td>Richard Miller</td>
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<td>Ken Mortensen</td>
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<td>Janet Stout</td>
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<td>Ron George</td>
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<td>Alain Trahan</td>
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<td>Arthur Freeman</td>
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<td>Harrison (Ruffin) Tyler</td>
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<td>Todd Cornwall</td>
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<tr>
<td>TAC Section Head:</td>
<td><a href="mailto:SH3.6@ashrae.net">SH3.6@ashrae.net</a></td>
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<td>All Committee Liaisons As Shown On TC/TGM/MTG/TRG Rosters (Research, Standards, ALI, etc.)</td>
<td>See ASHRAE email alias list for needed addresses.</td>
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<tr>
<td>Mike Vaughn, Manager Of Research &amp; Technical Services</td>
<td><a href="mailto:MORTS@ashrae.net">MORTS@ashrae.net</a></td>
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Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.
Main TC 3.6 Meeting Agenda

1. CALL TO ORDER

Meeting called to order at 1:00 PM by Helen

2. ROLL CALL & INTRODUCTIONS

Quorum – 12/14 (18 minus 4 resignation/retiring/change in industry)

3. 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

5. APPROVAL OF MINUTES (2018 Annual Conference, Houston, TX)

Dan W- seconded by Bill P – carried 11 yes, CNV abstained

6. REVIEW OF SECTION 3 BREAKFAST MEETING – Helen Cerra

Change management presentation done at breakfast.

High Tower Awards – looking for candidate

Go-to-meeting available now if we need help achieving quorum

7. SECTION 3 CHAIR REVIEW – Barbara Minor

Barbara Minor - Discussion on reorganization of TAC and Tc Structure. No major changes coming, but rather grass root effort to merge where logical

Barbara brought a certificate to recognize Helen Cerra for her service to TC3.6, as she is exiting the chair position.

8. MEMBERSHIP REPORT – Bill Pearson

8.1. Voting Membership - Bill Pearson welcomed the guest.

July 1st is the roll-off dates:

Rolling on – Jon Cohen, Frank Morrisson, Scott Schaffer.

Rolling off – Bill Pearson, Bill Pearson, Dick Miller

Patrick Racine reminded everyone that you don’t need to be a voting member to add to the committee and participate in sub-committee activity.

8.2. TC Leadership –

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

9.1. Research Liaison – Steve Kujak

Steve Kujak for RAC liaison – Update –
9.2. Relevant Codes and Standards Reports

9.2.1. ASHRAE Guideline 12

Paul L – update on Guideline 12 – committee going through third public review comments. Lots of headway. Consent agenda. Paul feels guideline 12 is looking like a very strong document. We will probably need another public review.

9.2.2. CTI Guideline 159

Bill Pearson – close to wrapping up. Going to adhoc committee for review – potentially at the summer meeting.

9.2.3. ASHRAE Standard 189P

Josh – no updates

9.2.4. ASHRAE Standard 191P

Jim – struggling for getting a quorum vote – trying to go to public review. Hoping for Winter 2020 final vote

9.2.5. ASHRAE Standard 90.1 Paul Lindahl. – seminar 34 an 40 co-sponsored.

9.2.6. ASHRAE Standard 514

9.2.7. Climate Chapter – TC2.5 Handbook

Alain Trahan – climate change chapter in next handbook.

9.2.8.

9.2.9.

10. HANDBOOK – Michael Patton/

10.1. Handbook Subcommittee Update

Michael Patton not here – last version published recently. We need to start working on the next version at Orlando 2020 – committee

Anything wrong can be fixed in out-of-cycle update.

11. RESEARCH – Todd Cornwell

11.1. Research project update

Grant for $5000 for graduate students to attend ASHRAE. New award

New Investigator Award

PTAR – Publication rather than Research – new category. One project going through this path. May be beneficial for this group

Another item brought up by Tyler, regarding TC9.6, asking if their RTAR (to be voted on letter ballot this summer) would have any interest by our TC3.6 to co sponsor. Grey Water use in Healthcare facilities, Determining Risk and Appropriate Design Requirements. Potential for using re-use water (grey) for: Toilet flushing, hand washing, cooling tower makeup, boiler makeup, etc. Project will be a literature review to capture the current practice regarding water re-use in healthcare, to determine standards and quality guidelines for the unique healthcare environment. Good recommendation by Jim to
develop common terminology for types of water, sources, re-use, etc. August 15th is the next deadline to get RTARs submitted to RAC for approval and discussion.

Two tentative research projects. Have not been submitted to RAC.

Performance Evaluation of secondary disinfection technology – RTAR project recommendation. Todd/Janet are working on the RTAR. – Josh, Alain, Tyler, Jim, Joe H, Jon C and Ron G. – Janet will review the write up by Todd. Meeting in the near future with the small group. Needs to be voted on before August 15th.

Regulatory review on secondary disinfection by state – RTAR project recommendation – small group working on this. Jeff R. and Todd C will work on this. Unsolicited Research Project – better path to speed things up, due to the low $ value of project and priorities. Process is for the document to go from Tom M to TAC directly, then TAC sends to TC3.6 for a vote.

12. PROGRAM – Jon Cohen

12.1. Programs at this meeting

Two sessions – Seminar 34 and 40 – 6 presenters total.

Orlando Program – Guideline 12 & other

Panel discussion – co sponsored with 8.6 - change in codes affecting the water treatment and cooling tower industry.

Motion
To support 8.6 by co-sponsoring their panel discussion – New or perspective A
Moved by Jeff + second by Alain

Motion
To sponsor a session on the changing regulatory landscape of guidelines – Janet Stout, Patrick Racine, - chaired by Alain Trahan
Moved by Janet + second by Bill – motion passes unanimous -

Conference paper: Emergency Remediation – Checklists and lessons learned – Ron George

Austin – deadline is close to Orlando meeting. (Feb 10th)

Motion
To sponsor a session on the Basics of Steam Boiler Water Treatment – Joe Ham, Dan W, Henry B, - Bill Pearson to chair
Moved by Patrick R + second by Alain passes unanimous

WEBSITE UPDATE – Joshua Ince

Josh says it is updated

SOCIAL NIGHT REPORT – Paul L organized -well received – 30 people

12.2. Appointment of Social Night Chair for Orlando Meeting – Todd C.

14. NEW BUSINESS –

Clive Broadbent and Jon Cohen awarded the Distinguish Service Award.

Helen is writing a letter to the ASHRAE folks to explain how well TC3.6 is doing

15. DATE AND LOCATION FOR NEXT MEETING

Winter Conference – Orlando – Feb 1–5, 2020

16. ADJOURNMENT

Adjourn by Helen at 14h59