



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 29, 2017

TC/TG/MTG/TRGTITLE Water Treatment

DATE OF MEETING June 27, 2017 LOCATION Long Beach, California

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Bill Pearson	2015	Bill McCoy	2014	Jon Cohen – CM
Todd Cornwell	2015	Leon Shapiro	2014	Clarissa Lucas - CM
Clive Ling	2014	Alain Trahan	2016	Tim Keane - CM
Frank Morrison	2015	Clive Broadbent	2016	Dan Weimar - CM
Dick Miller	2015	Patrick Racine	2016	Janet Stout - CM
Helen Cerra	2015	Scott Mayes	2015	Michael Patton - CM
Henry Becker	2013			Ruffin Tyler - CM
Paul Lindahl	2013			Joshua Ince - CM
Sarah Ferrari	2015			Bob Cunningham - CM
Ron Wood	2016			Gary Harbison - PCM
Allyn Troisi	2013			Scott Shaffer - CM
				Jeff Ramey - CM
				Ken Mortensen
				Jay Kohler – Sec Head
				Richard Aykroyd- PCM
				Tyler Anderson
				Rob Janowiak
				Steve Kujak
				Valerie Lisi
				Mark Carvalho
				Gary Klein

TC 3.6 Management Team	
Chair	Sarah Ferrari
Vice Chair	Helen Cerra
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



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Sarah Ferrari
sferrari@evapco.com
Chair TC 3.6

Helen Cerra
HelenC@chemtreat.com
Vice Chair TC 3.6

ASHRAE TC3.6 Agenda - 2017 Annual Conference Long Beach, California USA

Main TC 3.6 Meeting

Tuesday, June 27, 1:00-3:30 PM, LBCC, Seaside 3A (Level SS1)

TC 3.6 Handbook / Program / Research

Sunday, June 25, 3:00-5:00 PM, Renaissance Hotel, Pike 1 (Level 1)

TC 3.6 Sponsored Technical Program

Seminar 37

Water Treatment: The Overlooked Aspect of Commissioning Hydronic Systems

Tuesday, June 27, 8:00-9:30 AM, LBCC, 203AB

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 11/17.

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. Try for 3-5 pm for Chicago.

5. APPROVAL OF MINUTES (*2017 Winter Meeting, Las Vegas, NV*)

Morrison moved to approve, Pearson second. Unanimous, CNV

6. REVIEW OF SECTION 3 BREAKFAST MEETING – *Sarah Ferrari*

Chair reviewed notes from the Section 3 meeting. Subjects discussed included badge attendance options, research articles, conference papers for ASHRAE and the org/technology portal.

The use of URL has changed. CEC will provide a link to formatting tools for URL reference. (located on the Chicago conference page).

Payment for research projects will change from monthly to being milestone based. Need well organized PMS. (Take PMS training on the RAC website.)

7. SECTION 3 CHAIR REVIEW – *Jay Kohler*

Jay offered his services for any questions and reinforced that the TC website contains much training content.

8. MEMBERSHIP REPORT – *Bill Pearson*

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

8.2. TC leadership announced the next Vice-Chair of TC 3.6 will be Patrick Racine.



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

9.1. Relevant Codes and Standards Reports

- 9.1.1. ASHRAE Guideline 12 - Committee chair, P. Lindahl reported that the committee is reviewing comments on full GD 12 document and next step of publication, public review.
- 9.1.2. CTI Guideline 159 - Working group chair, H. Cerra reported more work is needed and committee will meet July 18 at CTI summer conference.
- 9.1.3. ASHRAE Standard 189P - F. Morrison made comments regarding fixed Cycles of Concentration. Document went out for public review. Comments are being worked on at Long Beach. It will become a standard in 2017, if approved.
- 9.1.4. ASHRAE Standard 191P – A. Troisi discussed that the scope is narrow. Letter ballot vote for public review will move forward. (Baseline (minimum) Energy Standard) IAPMO F. Morrison will forward document and name to Chair.
- 9.1.5. ASHRAE Standard 90.1 – P. Lindahl discussed Title 24 and specifically the requirements for heat rejection equipment.
- 9.1.6. CEC Title 24 – F. Morrison discussed the doubling of efficiency requirements. Stakeholders meeting – F. Morrison has direct line of communication with CEC. They are also proposing another fan rule

Incoming Chair to send liaison letter for Paul to 90.1 and Daryn Cline for 189P

- 9.2. ASHRAE Legionella Position Document Status (*Patton*) - Committee wants to edit the document to be more concise. Chair is scheduling a meeting for January.

10. HANDBOOK – *Michael Patton*

- 10.1. Handbook Subcommittee Update – Multiple outlines. Revise 30% content revision. Ruffin, Broadbent, Becker, Cunningham, Patton, and Boldt. Conference call by end of July. Potable water treatment should be added. Commissioning information can also be added.
- 10.2. Goals for 2018 Edition – not ready for vote in January, but by May. Authoring Portal access document is attached.



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11. RESEARCH – *Todd Cornwell*

Steve Kujak – Reviewed the word format for the Work Statement.

- 11.1. Research project update – Co-sponsors met yesterday. Environmental Health voted to support 10-0 (abstention)- moving forward for RAC approval. TC 6.6 Service Water Heating had a problem with language. They did not vote. TC 6.6 will get the updated RTAR to their group for an email vote.

ACTION- Chair will confirm with the subcommittee – C. Lucas, C. Broadbent B. Pearson, Ron George, Tim Keane. Future e-mail vote to meet Aug.15 deadline.

Possible topic - Effectiveness of secondary disinfection in a healthcare environment.

Keane proposed writing a guideline for disinfectant. Consider as we do handbook.

Chair suggested task group - Todd asked for anyone to lead an effort. No members offered to help.

Put it on the agenda for next meeting.

12. PROGRAM – *Jon Cohen*

- 12.1. Programs at this meeting – Cerra gave update on the Seminar 37.

- 12.2. Programs for Upcoming Meetings

- 12.2.1. Debate – Abstract for the legal debate will be submitted.

12.2.1.1. Chicago: Current Codes, Standards, Guidelines for Legionella – Josh Ince is chairing. (VA, Allegheny Health 2014, CMS, New York). Janet, Bill and Tim will present.

12.2.1.2. Co-Sponsor – TC2.8 wants to Co-sponsor on water efficiency Contingent on Allyn's recommendation. (Seminar on Monitoring/Controls and Energy). Allyn will cover filtration. Commercialism is a concern. Fred Betz will talk with Seminar originator. Allyn will pass on information to committee.

12.2.1.3. Houston – Conference Papers on Secondary Disinfectant – Janet - Micro, Tim - Engineering, Jon - Chemistries, Clive Ling with Dan Weimar chair. Abstract due August 28.



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13. WEBSITE UPDATE – *Joshua Ince*

13.1. Website – send a link.

14. SOCIAL NIGHT REPORT – *Allyn Troisi*

14.1. Chair recognized Allyn for his great organization of dinner at Bo-Beau with 25 attendees.

14.2. Rob and Jeff will be Social Night Co-Chairs for Chicago Meeting.

15. OLD BUSINESS – none.

16. NEW BUSINESS – Distinguished Service awards to Michael Patton and Leon Shapiro and Pat Graef, Paul Lindahl and Frank Morrison.

17. DATE AND LOCATION FOR NEXT MEETING

Winter Meeting – Chicago, IL USA – January 20-24, 2018

18. ADJOURNMENT Chair adjourned at 3:08 PM.

Attachment

ASHRAE Authoring Portal Author's Quick Reference

The Fundamentals

Sign In: Go to the URL <http://authoring.ashrae.org>, provide your netFORUM login credentials, and click the "Sign In" button.

Request Access: If your login credentials are verified but you don't have the required privileges to access the ASHRAE Authoring Portal, then you can send a request to the ASHRAE Authoring Portal administrator for providing you with required access privileges. You will be contacted by the ASHRAE Authoring Portal administrator once your request is processed.

Sign Out: Click the user name menu at the top right corner of the screen and select "Sign Out".

Co-Authoring Prerequisites

Please consider the following prerequisites before using the co-authoring feature of this site:

1. The "co-authoring" feature is only available if the ASHRAE Authoring Portal is opened using Internet Explorer 9 and higher.
2. Microsoft Word files can only be co-authored with Microsoft Office 2010 and higher.
3. The ASHRAE Authoring Portal website (<http://authoring.ashrae.org>) must be added to the "Trusted sites" list.

The following section provides step by step instructions for adding a site to the trusted sites list.

Add ASHRAE Authoring Portal to Trusted sites list

To add the ASHRAE Authoring Portal website to the "Trusted sites" list, please proceed as follows:

1. Open "Internet Explorer" and navigate to the ASHRAE Authoring Portal website <http://authoring.ashrae.org>.
2. Click on the "Tools" button and then select "Internet Options".
3. Select the "Security" tab and then select the "Trusted sites" security zone.
4. Click the button "Sites".
5. The website should be shown in the "Add this website to the zone:" field.
6. Uncheck the option "Require server verification (https:) for all sites in this zone".
7. Click "Add" to add <http://authoring.ashrae.org> to the trusted sites list as shown in the following screen shot:

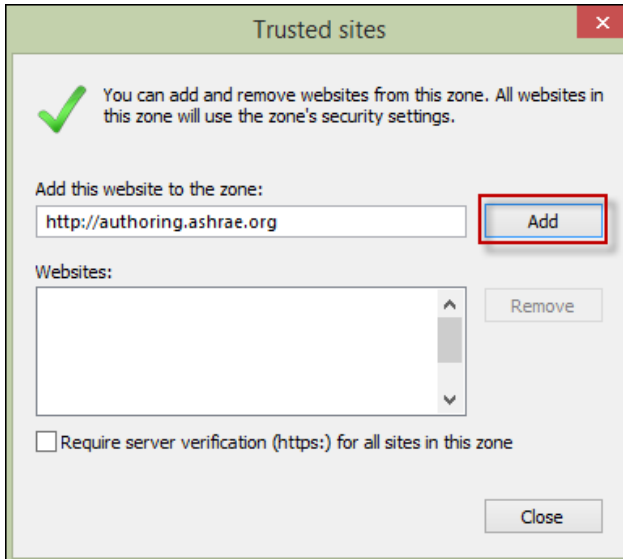


Figure 1: Trusted Sites

8. Click the “Close” button to close the “Trusted sites” popup and then click the “Ok” button to close the “Internet Options” popup.
9. Close “Internet Explorer” and open it again.

Co-Author a Document

Follow the instructions given below for editing a document using the co-author feature:

1. Select the required document library.
2. Select the document that you want to open in Microsoft Word 2010 or higher for editing.

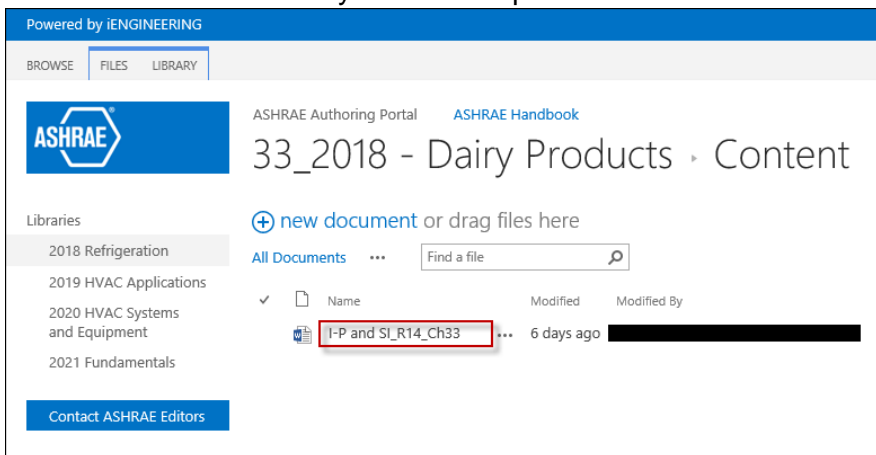


Figure 2: Document Library

3. Click the “Yes” button when the security dialog box is displayed.
4. The document will be opened in Microsoft Word. Click the “Enable Editing” button to start document editing.

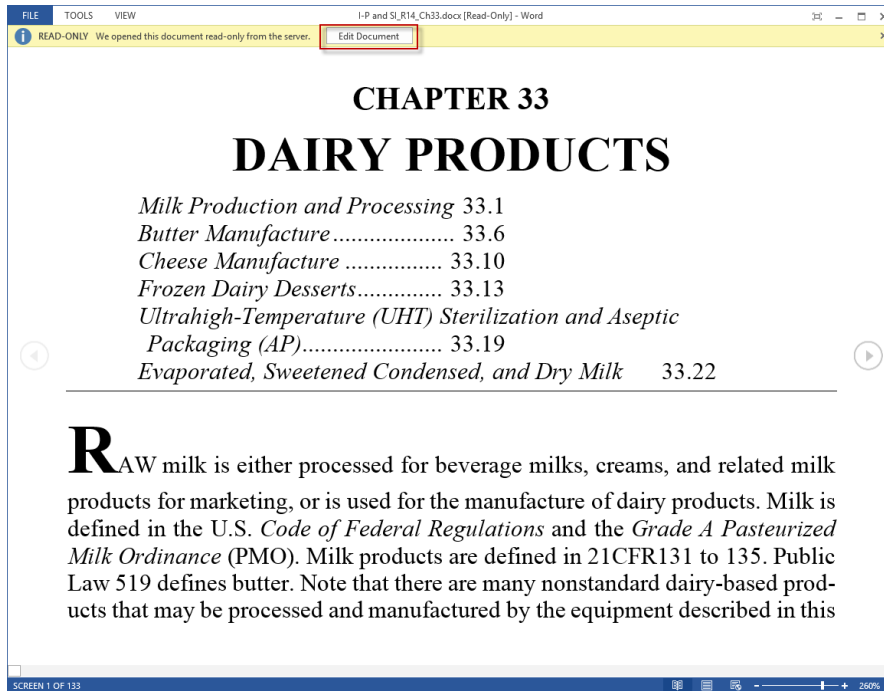


Figure 3: Enable Editing

5. If another user opens the same document for editing, a message will be displayed to you on your screen that another user has opened this document for editing.

Please note that dotted square bracket lines indicate that you are editing in this area whereas solid square bracket lines indicate that another user is editing in that area.

If another user saves the document, then the refresh icon will be displayed next to the user name. You can click the “Save” button to get these changes and an information message will be shown that you can easily see all changes made in this document by looking at the green overlay.

6. You can click the “Save” icon to finish your editing and save the document.

Delete a Document

To delete a document, please proceed as follows:

1. Click the checkbox beside the document that you want to delete.
2. Select the “FILES” tab and click on the “Delete Document” button in the “Manage” group as shown in the figure below:

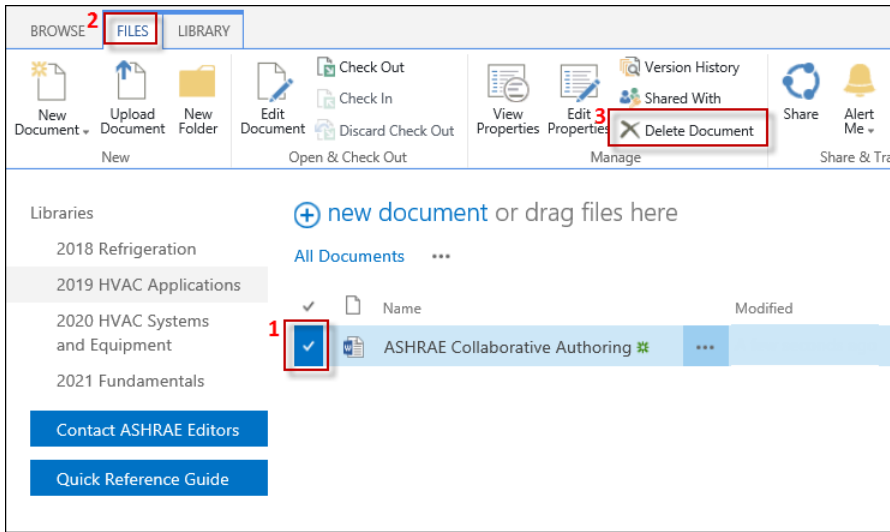


Figure 4: Delete a Document

3. Click the “OK” button when the confirmation dialog box is displayed as shown below:

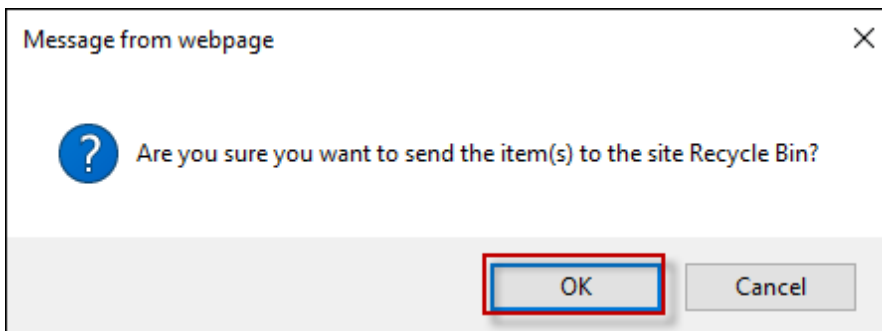


Figure 5: Confirmation Message