



ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.

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Minutes of the Chicago, Illinois TC8.6 Cooling Towers and Evaporative Condensers Meeting held on January 23, 2012

Meeting Location: Palmer House Hilton, Logan Room 3rd Floor

Scope: TC 8.6 is concerned with cooling towers, evaporative liquid coolers and condensers, spray ponds, and other types of contact type liquid to air exchangers and applications to complete refrigeration systems, including water treatment.

1. Preliminaries

- a. Call to order 2:17 by Cohen
- b. Cohen (V-Chair) initiated meeting acting in place of Wood (Chair) who was unable to make the meeting.
- c. Cohen motioned to validate Lindahl at TC8.6 liaison to Std 90.1 Committee. Motion by Mayes, second Beda. Approved 5-0.
- d. Cohen had to leave meeting in order to present ASHRAE sponsored session "Selection, Operation & Maintenance and Water Treatment for Multi-Metal Boilers". Lindahl acting as committee chair for remainder of meeting.
- e. Introduction of members and guests
- f. Attendance list
 - i. Agenda was sent by email prior to the meeting.
 - ii. 5 voting members present, quorum achieved.
- g. Additions to agenda
 - i. None

2. Approval of Minutes

- a. Summer 2011 Montreal minutes sent by email prior to meeting.
- b. No corrections/comments on the minutes from Montreal.
- c. Motion to approve Beda, second Mayes, Approved 5-0.

3. Review of Section 8 breakfast

- a. TC's are going to be asked to work on new logo and tagline for AHSRAE. 8.6 will support that by updating TC 8.6 website.
- b. Along with support from TC3.6, Dave Geary is being nominated for 2012 George B. Hightower Technical Achievement Award.
- c. As part of ASHRAE's collaboration with the Advanced Energy Design Guide (AEDG) series, they are looking for input for best practices.
- d. It was noted that TC members cannot take a position and speak to other bodies without approval of the TC, unless they are the official TC liaison.

- e. The ASHRAE website is offering online collaboration tools to help set up webinars or conference calls for TC subcommittee meetings. (<http://www.ashrae.org/standards-research--technology/technical-committees/393f92c3-594a-4852-a682-a3278157b13e>)

4. ASHRAE Liaison Reports

- a. CEC (Conference and Expositions Chair) Meeting report to TAC. Seminar and forum proposals due 2/12/12. Final conf and technical papers due 3/7/12 for Summer 2012, San Antonio and 3/19/2012 for Winter 2013, Dallas, conference papers.
- b. An O&M Mini-Conference is being featured as part of the ASHRAE 2012 Winter Conference Tech Program.

5. Membership (Lindahl)

- a. There will be 10 voting members after June 2012 meeting. The voting members will be 4 current voting members -- Wood, Kline, Mayes, LeClaire; 4 new voting members -- Cohen, Weimar, Velicke, and Vadder; and 2 non-quorum voting members -- Patton and Beda.
- b. Mark Huber has resigned from TC8.6. Joe Vadder will take over responsibility of Research and Standards Chairs.
- c. Shapiro should have been Program chair after Montreal. The change did not get processed.
- d. Provisional membership is open to anyone who has interest. You can roll on as a corresponding member after attending a few meetings and expressing CM status with the current Chair.

6. Handbook (Lindemann)

- a. There was no separate Handbook/Program/Research meeting held in the morning.
- b. Lindemann has submitted the approved Chapter 38 handbook changes to ASHRAE and is awaiting proofs prior to final printing in April.
- c. Lindemann thanked everyone who provided comments and modifications to the chapter for your contributions.

7. Standards (Lindahl)

- a. 2011 edition of Standard 64 (Methods of Laboratory Testing Remote Mechanical-Draft Evaporative Refrigerant Condensers) has been published.
- b. No other standards actions by TC 8.6 at this time.

8. Research (Lindahl)

- a. No active research projects at this time. Soliciting ideas for future research projects.
- b. Cooling Technology Institute (CTI) has started a research committee and is trying to identify projects. CTI will likely seek ASHRAE for funding on some of the identified projects. Current CTI active project is calibration of flow measurement devices, but has not yet been approved by CTI.
- c. A follow-up email is to be sent to members who volunteered to provide support for outstanding RTAR on water and Energy Nexus. Vadder will send the email to the volunteers (noted in previous minutes).

9. Programs (Shapiro)

- a. Related session to TC8.6, which was taking place during the TC8.6 meeting, "Water/Energy Nexus: Comparing the Relative Value of Water Versus Energy Sources."
- b. TC8.6 is co-sponsoring Conference Paper Session 27, "Correct sizing of HVAC Equipment and Systems for Standard 62.1".

- c. Discussion on preparation for conference paper session for Dallas, winter 2013.

10. TC 3.6 (Mayes)

- a. Patton not present. Mayes relayed from previous TC 3.6 minutes that TC 3.6 had finished research project (not related to TC 8.6) and had no active projects.

11. Std 188 (Lindahl)

- a. Std 188 (Prevention of Legionellosis Associated with Building Water Systems) is currently in second public review stage. Will be up for ballot for publication. It is unknown if Std 188 will be published if revisions for Guideline 12 have not been completed.
- b. CTI Std 159 (Legionellosis Related Practices for Evaporative Cooling Water Systems) is currently in the peer/public review stage.

12. TC 2.8 (LeClaire)

- a. No updates for Green Guide or STD 189.1 (Standard for the Design of High-Performance, Green Buildings).

13. STD 90.1 and Title 24 (Lindahl)

a. Title 24

- i. Title 24 group has backed off on 100 gpm/hp, and COC guidelines for 2012 documents.
- ii. Communication has been thru Steve Taylor, not CEC.
- iii. Title 24 public review draft going out 2/24/2012.
- iv. Does committee want to have a forum on what is in standard and what needs to be in standard regarding energy/water requirements. Shapiro motioned to submit forum stds as they relate to cooling tower operations., Bed second, 5-0 vote in favor. Morrison to volunteer to moderate forum.
- v. Shapiro to reach out to members who expressed interest in hybrid tower conference paper.

b. Std 90.1 (Energy Standard for Building Except Low-Rise Residential Buildings)

- i. Morrison is member of 90.1 group and Morrison also participated in the chiller plant working group meeting.
- ii. Lindahl is liaison to 90.1. Lindahl is formulation responses to 90.1 and Title 24. Title 24 currently has limitation of air cooled chiller usage. Chiller performance increases not effective until 2015. The working group for these responses include Bugler, LeClaire, Lindahl, Wood, Morrison. The subgroup agreed to propose a 5% increase (40.2 gpm/hp), effective 2015 for ASHRAE 90.1 and a 10% increase (42.1 gpm/hp) for 2013 Title 24 document. Beda moved for approval, Mayes second, approved 5-0.
- iii. 90.1 push to develop evaluation by sub-system and total systems. Need to be careful of alternate evaluation methods.

14. TAC Section 8 Head

- a. Steve Duda –Sh8@ashrae.net – visited TC 8.6 meeting to introduce himself and offer any support required.

15. Web Site (Walicki)

- a. Walicki will be working with ASHRAE to update logos, colors, etc on TC 8.6 page.
- b. Please check membership list on TC8.6 page to ensure it accurately reflects your current TC status.

16. Old Business

a. None

17. New Business

a. None

18. Adjourn 3:46 pm, motion Mayes, Bada second, approved 5-0.