



1791 Tullie Circle, N.E./Atlanta, GA 30329
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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. TC 5.07 DATE June 25, 2018

TC/TG/MTG/TRG TITLE Evaporative Cooling

DATE OF MEETING June 25, 2018 LOCATION Houston, TX

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Andy Cochrane	2016	Sukru Erisgen	2016	Jennifer Montville
Steve Slayzak	2016	Leon Shapiro	2015	Priyam Tewari
Richie Mittal	2016			G.D. Mathur
Mike Scofield	2016			Brian Russ
William Truong	2017			David Sietsema
				Nick Deschamps
				Mark Miller
				Galen Gerig
				Joel Boyaton
				Chris Habets
				Jian Xu
				Larry Smith
				Annette Dwyer

DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head:	SHx@ashrae.net Where x is the section number
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

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.

MEETING MINUTES

ASHRAE TC-5.07 Evaporative Cooling
Monday, June 25th, 2018
4:15 – 6:30 PM,
Hilton 4th Floor Grand D

I. CALL TO ORDER

Andy Cochrane called the meeting to order at approximately 4:20 pm.

An attendance sign-in sheet was circulated and signed by those in attendance.

A roll call was held, five (5) of the seven (7) voting members were present to start the meeting, establishing that a quorum was available to conduct business.

The minutes from the Las Vegas ASHRAE TC- 5.7 meeting were read and approved by a unanimous vote of the voting members.

II. APPROVAL OF PREVIOUS MINUTES

A motion was made by Mike Scofield to approve the minutes (2nd by Steve Slayzak). The motion was carried.

(5) Approved (0) not approved (0) Not attending, (0) Abstentions

III. Chairs Report

- A new 90.1 portal is available
 - Standard and user guides can be viewed side by side
- ASHRAE authoring portal
 - Tool can be used for review of documents related to handbook content
- CEC call for reviewers of programs – if interested reach out to Andy

IV. Handbook (Mathur)

- The review of Applications chapter 52 is completed and was approved April 30th
- Systems and Equipment chapter 41 is up for review
 - i. Changes to be proposed in Atlanta
 - ii. Forward any feedback to Mathur

V. Membership (Scofield)

- Mike was not in attendance in Long Beach or Chicago
- An email was sent out in 2016 to all corresponding members asking if they still wanted to be on the roster
 - i. All changes to the roster have been made accordingly

VI. Programs (Slayzak)

- Proposed program for Houston fell through
- A new module for building energy simulation using indirect, direct, and condenser pre-cooling are available in the April release of EnergyPlus

- i. We will propose a paper for Atlanta for Track 1 (Systems and Equipment) or Track 2 (HVAC&R Fundamentals and Applications)
 - ii. Topic would be “Integrated hybrid with DX”
- Subcommittee
 - i. TC 5.7 is interested in cosponsoring with TC 5.11
 - 1. New research with Dr. Raiman (Mayo Clinic) based on an intervention study
 - Paper titled “Humidity as a non-pharmaceutical intervention for influenza”

VII. Research (Miller)

- Subcommittee discussed the possibility of an evaporative cooling design guide
 - i. It could be done as either a research project or by working directly with ASHRAE publications (preferred route)
 - 1. TC 5.7 would have input on the team with potential royalties or compensation structure for meeting expenses
 - 2. The next step is to find a lead writer for the design guide
 - A subcommittee was formed to come up with an outline and call for writers
 - Design Guide Subcommittee is: Andy Cochrane (Chair), Mike Scofield, Nick Deschamps, Steve Slayzak & Pat Graef

VIII. Standard 133,134, and 212 (Graef/Modera)

- Standard 133 and 143 have been updated
- A meeting will be held tomorrow at 2PM to vote for a second public review of Standard 212

IX. Website (Dwyer)

- The website is up to date and agenda and meeting minutes are posted

X. Liason Reports

- **TAC Section 5 chair Larry Smith**
 - Breakfast meeting – each TC gave a brief overview of what each TC does
 - Trying to improve cooperation between TCs
 - There will be a section 5 steering committee
 - If any question or help needed email Larry at sh5@ashrae.org
- **TC 1.4 reached out**
 - Controls Theory and Application
 - Published a user’s guide
 - Getting questions about it and want a supplement or different publication for basic controls strategy for evaporative cooling equipment (same for other TC’s)
 - Liaison to 1.4 – Chris Habets / Joel Boyaton volunteered to be liaison

XI. Old Business/ New Business

- Sukru changed jobs. Andy will reach out to Sukru to discuss his future involvement with TC 5.7

XII. Closing Remarks (Slayzak 2018-2020 Chair)

- Steve asked for any success stories using evaporative cooling to help promote the technology
- Andy received an ASHRAE recognition award

XIII. Next Meeting

- Atlanta, GA : Monday (1/12/2019), 4:15 pm - 6:00 pm, Room: TBD

XIV. Adjournment

A motion to adjourn the meeting was made by Steve and properly supported by Mike. All members were in favor; none opposed.

(5) Approved (0) not approved (0) Not attending, (0) Abstentions

Meeting adjourned at 6:05 pm.