



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. TC 5.07 DATE June 24, 2024

TC/TG/MTG/TRG TITLE Evaporative Cooling

DATE OF MEETING June 24, 2024 LOCATION Indianapolis, IN

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
William Troung	2022			Kevin Marple
Mark Miller	2022			Muhammad Wakil Shahzad
Annette Dwyer	2022			David Baird
Pat Graef	2022			Duncan Curd
Gursaran Mathur	2023			Patrick Van Deventer
Richie Mittal	2022			Tushar Khanna
Steve Slayzak	2023			Chen-min Yang
Alkis Triantafyllopoulos	2023			Nate Sullivan
Galen Gerig	2023			Thomas Stiles
				Sunny Kaira
				Jyokirmay Mathur
				Pinjala Jai Sudhir

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

TAC Section Head: Kevin Marple	SH5@ashrae.net
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.

## Meeting Minutes

ASHRAE TC-5.07 Evaporative Cooling  
Monday June 24th, 2024  
5:00-7:00 PM EST  
JW Marriott: 312 (3)

### **1. Call To Order (Truong)**

Meeting called to order by William at 5:02

### **2. Review Scope (Miller)**

TC 5.7 is concerned with contact type heat transfer surfaces and equipment for evaporative air-cooling. It includes application to residential, commercial, and industrial cooling requirements.

### **3. ASHRAE Value Statement (Miller) -> Now changed to ASHRAE Value Statement**

- a. In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics here: [Code of Ethics](#))
- b. ASHRAE Commitment to Care: The health and safety of all ASHRAE conference attendees is a top priority. Out of respect for our fellow attendees, we commit to monitor our health, seek medical attention if symptoms develop and adhere to all ASHRAE Commitment to Care protocols. We are committed to the well-being of one another.
- c. [Anti-Trust Guidelines](#)
- d. Recording (Audio, Video, Screenshots) of ASHRAE meetings, including online meetings, is strictly prohibited

### **4. Introductions (All)**

### **5. Agenda Additions (All)**

No changes to the agenda

### **6. Chair Report**

- a. Chair Goals
- b. Announcements and Highlights from TC Chairs Breakfast Meeting

### **7. Liaison Report (as they arrive)**

- a. **RAC** (Jin Wen) – not present
- b. **TAC Section 5 Head** - Kevin Marple

### **8. Approval Of Summer Minutes**

- a. Motion to approve previous minutes made by Annette, seconded by Steve.  
Motion carried unanimously.

## 9. Membership Roster

- a. William will roll off as Chair after this meeting
- b. Mark will roll on as Chair after this meeting
- c. Long Phan who was to roll in to VC role is not longer able to support TC5.07.
  - i. Annette volunteered to roll on as VC
  - ii. Chen-Min volunteered to roll on as Secretary
  - iii. **ACTION: William to send email to Tara to request emergency roster changes**

## 10. Subcommittee Reports

- a. Programs (**Slayzak**)
  - i. No seminars or programs for this conference
  - ii. Next two conferences will be Phoenix and Las Vegas
    - 1. These are ideal locations for TC5.7 to put forth a seminar
      - Basecamp chat is setup for anyone to submit ideas, proposals, etc.
        - i. Ideas: water quality and optimization, cycles of concentration (Condair can present)
    - 2. **Action: Galen to send the name of the professor at Villanova that may have something to present**
    - 3. **Action: Tushar Kanna to send information on a data center in Toronto that is using evaporative (TRCA in Markham, Ontario)**
  - iii. TC5.11 – Humidifying Equipment is meeting tomorrow, there may be interest in co-sponsoring a seminar
- b. Research (**Mittal**)
  - 1. No current research or RTARS
    - Previous ideas included impact of cooling media on Covid and multistage desiccant
      - i. **ACTION: Richie to dig up previous notes for next meeting**
- c. Handbook (**Mathur**)
  - 1. 2023 updates have been published
  - 2. 2024 Chapter 53 will be up for review
    - **ACTION: TC to review and send any feedback to GD**
- d. Standards (**Graef**)
  - i. Standard 212 Method of Test for Determining Energy Performance and Water-Use Efficiency of Add-On Evaporative Precoolers for Unitary Air-Conditioning Equipment
    - 1. Requires reaffirmation, revision, or withdrawal
      - Mark Modera volunteer to chair committee to revise 212
        - i. Other volunteers to support:
          - 1. Steve Slayzak
          - 2. Theresa Pistochini
          - 3. Tushar Khanna
          - 4. Pat Graef
    - ii. Form was sent to Bill Walter confirming TC's intent to revise 212

iii. **ACTION: Mark Modera to coordinate a re-occurring meeting based on everyone's availability**

ii. Standard 133 is published

iii. Standard 143 is going out for public review

**1. ACTION: Pat to send out the link**

e. Website (**Miller**)

i. Website is updated. Meeting minutes are current.

## **11. Old Business**

## **12. New Business**

## **13. Adjournment**

a. Meeting adjourned at 6:12

APPROVED