

# ASHRAE TC 6.9 – Thermal Storage – 2024 Hybrid Summer Meeting Agenda

Indianapolis, Monday, June 24, 2024  
4:00PM – 6:00 PM ET

## Preliminaries

(5 min)

### 1. Call to Order - (TC Chair – Daniel Pyewell)

#### Purpose Statement:

*TC 6.9 is concerned with the storage of thermal energy for use in heating and/or cooling and with charging or discharging this energy at a controllable rate. The TC collects and disseminates information on storage processes, materials, containers, components, systems and costs as well as on analytical methods for evaluating and predicting storage performance.*

### 2. ASHRAE Code of Ethics Commitment – (TC Chair – Daniel Pyewell)

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>.)

#### Meeting Housekeeping Items:

Please ensure you sign in via the attendance sheets that are being circulated.

All virtual participants, please mute your microphone unless speaking.

### 3. Introduction/ Attendance – (TC Chair – Daniel Pyewell)

- a. Secretary for the meeting (Kyle Gluesenkamp) to take attendance via the membership roster, attendance sheets, and from the online Teams meeting attendance list.
- b. Member and Guests Introductions and Sign in
  - i. Please state your name, company/ location, and position on the committee
- c. Establish a Quorum, Review of Current Voting Members, and TC 6.9 Officers (Ref. Manual of Procedures – 3.2.2, 2.13, 2.14, & 2.15)

	Members	Role		Roll Off
1	Daniel Pyewell	Chair/ Webmaster	VM	2025-06-30
2	Emishaw Iffa	Vice Chair	VM	2027-06-30
3	Kyle Gluesenkamp	Secretary	CM	
3	Bruce Lindsay	Program Subcommittee Chair	CM	
4	John Nix	ALI Coordinator	CM	
6	Charles Booten		VM	2025-06-30
7	John F Dunlap		VM	2025-06-30
8	Hooman Arjmand		VM	2025-06-30
9	Kenneth M Fulk		VM	2024-06-30
10	Mike Filler		VM	2027-06-30
11	Amy Van Asselt		VM	2025-06-30
12	Paulo Cesar Tabares	Research Subcommittee Chair	CM	
13	Blake E Ellis	Standards Subcommittee Chair	CM	

14	Navin Kumar	Handbook Subcommittee Chair	CM	

- d. Discuss recruiting of new members and officers to this Technical Committee (TC 6.09). To become PCM, access “Join TC 6.9” under Membership on T.C. webpage

**4. Approval of Minutes** (2 min)  
Hybrid Winter Meeting 2024 in Chicago

**5. Announcements by Chair – Daniel Pyewell** (3 min)  
Section 6 Virtual Breakfast

**6. Liaison Reports** (10 min)

- a. TAC Section 6 Head – Doug Reindl
- b. Training and Education Committee (TEC) – John Nix
  - i. Look at development of E-class
- c. TC 2.5 Global Climate Change – John Nix
- d. STD 90.1 – Amy Van Asselt
- e. IDEA – John Andrepont
- f. LEED v5 – Ian LaHiff

**7. Standards – John Dunlap** (10 min)

- a. Std. 150-2000
- b. Std. SP 233P
- c. ASME TES-2-200X
- d. AHRI 900-2014
- e. 94.2 use for tax code – Brent Kovash
- f. Proposed New Standards

**8. Programs – Bruce Lindsey** (10 min)

- a. Review Past Programs
- b. Review Current Programs
- c. Discuss Future Programs
- d. T.C. 6.9 Hall of Fame new entries

**9. Handbook – Navin Kumar** (10 min)

- a. 2024 HVAC Systems & Equipment Handbook Revision (reaffirmed)
- b. Plan for this coming year (2028 update):

- i. Include new content from Henry Becker on water quality
- ii. Establish review team to review all content and comments
- iii. Develop schedule for next few years
- iv. Figure 25 Discussion – Location of pressure tank

**10. Research – Paulo Cesar Tabares Velasco**

(15 min)

- a. None of old RTARs are moving forward
- b. Brainstorm future ideas for potential RTARs:
  - i. Old idea: Metrics for energy savings from TES
  - ii. Old idea: Quantifying benefits from TES (ongoing efforts at national labs)

**11. Long Range Planning/Website –Daniel Pyewell**

(10 min)

- a. Need someone to eventually take over webmaster role
- b. Membership – 20 new PCMs have joined the T.C. since the winter meeting.
- c. Voting Members – Ken Fulk rolls off after this meeting. Geoff Bares rolls on.

**12. Honors and Awards – Blake Ellis**

(5 min)

**13. Old Business**

(5 min)

- a. ORNL update on Energy Plus Support for TES – Emishaw Iffa
- b. USACE Paper from Alexander Applicability of Large Thermal Energy Storage – can TC get this paper published?
  - i. Any comments prior to post-meeting discussion for those that cannot stay?
- c. Stor4Build Status Update – Kyle Guesenkamp

**14. New Business**

(10 min)

- a. Any new business?

**15. Adjourn**

- 16. **Post-Meeting discussion:** USACE Paper from Alexander – Applicability of Large Thermal Energy Storage – can TC get this paper published as-is with short length