



MINUTES

TECHNICAL COMMITTEE 8.10 Meeting

Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components

2025 Winter Meeting

February 11, 2025



180 Technology Parkway NW, Peachtree Corners, GA 30092
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 8.10 DATE 2/11/2025

TC/TG/MTG/TRG TITLE Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components

DATE OF MEETING February 11, 2025 LOCATION Orlando, FL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Peter Luttik		James Piscopo		(see attached page)
Jason Freudigmann		James Bogart		
Alois Malik		Enrica Galasso		
Saeed Moghaddam				
Ronnie Moffitt				
Darrell Sandlin				
Benjamin Heyser				
David Baird				

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.
Steve Hammerling, Assistant Manager of Research & Technical Services	AMORTS@ashrae.net

Call to order & Introductions:

Called to order by chair, Peter Luttik, 1:03 pm ET

Introductions were made.

It was noted that quorum is met.

Peter read the ASHRAE Code of Ethics.

Membership:

- Upcoming changes:
 - Peter is due to roll off after June meeting
 - Ronnie will become chair
 - Darrell Sandlin is due to roll off as a voting member, but willing to stay on
 - James Bogart is due to roll off
 - Proposal for Ben Heyser to become vice chair & Jason Warner to become secretary after the annual meeting.
 - Motioned by David Baird, seconded by Alois Malik
 - Vote passed 8-0-0-3-CV
 - There was discussion about Darrell Sandlin to remain on as a voting member.
 - Several others volunteered to become voting members (Jason Warner, Lucas Roy, Lavanya Jakka, David Simkins, Mike Gillespie, William Worek). It was noted the committee needs to evaluate balance between Producers, Users & General members. No vote was taken.

Liaisons:

- MTG.CEA (Jason Warner)
 - MTG.CEA has a working group focused on gathering the state of the art in CEA in various sources of information (ASHRAE publications, university publications, etc.). First step is to locate what information is available. Second step is to determine what information may need to change, be updated, or moved to a more appropriate document. Third step is to develop a plan to address the needed changes. Working group plans to ramp up meetings this spring and is looking for additional volunteers. Contact Mike Gillespie (Gillie@GillieCS.com)
 - CEA chapter in the handbook is in 2023 Applications. Any revisions would be due in 2026.
 - TC 2.2 is looking to have a seminar in either Phoenix or Las Vegas on case studies of novel applications of equipment in CEA. They currently have 2 speakers lined up. Any other interested speakers should contact Mike.
 - MTG.CEA is thinking about offering a short course for future ASHRAE Conferences. Contact Mike if interested in participating.
- SPC198 (Ben)
 - Not much progress since 2024 Annual meeting.
 - SPC could not vote on T/P/S updates due to lack of quorum.
 - The SPC also suffers from an imbalance in membership (too many Producers vs Users/General). Cannot vote the standard out of the SPC until the imbalance is corrected.
- AHRI920 (Ben)
 - The AHRI Dehumidifier STC will be addressing format review comments and hope to have AHRI 920 out for public review in April with a goal to publish this summer.
- DTG.Utilities (Peter)
 - Enrica (chair of the DTG) had to step away due to personal issues. Peter Luttik (vice chair) will attempt to keep the DTG moving in her absence.

- TC1.12 (Peter)
 - TC1.12 is reviewing RTAR on safe humidity levels in buildings. They plan to work with 5.11 (Humidification)
- PC 10 (Health) (Peter)
 - Committee is focused on the concept of Healthy Air, which attempts to address ventilation as a means to improve air quality
- Guideline 36 – No updates – It was noted this item corresponds to RP-1865 in the Research section.
- ASHRAE Decarbonization Heating Guide (Peter) – the guide is now published. It contains a lot of good information about DOAS.
- ASHRAE Journal – “Beyond DOAS” Column (Peter)
 - Peter submitted an article on DOAS
 - ASHRAE will separate the article into a group of columns
 - There will be opportunity for others to submit additional columns. Interested people can contact Peter for additional details. (Darrell, Saeed, Alois, Peter Makris, Shirley Hall & Dhruv Hoysall expressed interest)

Sub-Committees:

Programs: (Darrell)

- Phoenix
 - 2/26 submission deadline
 - Dates & tracks are posted on TC8.10 basecamp
 - 110 slots in the technical program
 - First priority is research papers – 27 slots consumed
 - There were 197 submissions for the remaining 73 slots
 - Seminars tend to be accepted more readily than other types because they can offer PDH credits to attendees.
- Ideas for possible program topics:
 - Beyond DOAS – could be a good seminar with multiple presenters. We may want to coordinate column publishing timing with seminar timing.
 - Liquid Desiccants – Jason Warner can lead, looking for support from other people working with liquid desiccants
 - AHRI 920 – Ronnie & Ben.

Handbook: (Saeed)

- Chapters due in March 2027, July 2027 & March 2028
 - Jason Warner volunteered to help with Chapter 24 (Desiccant Dehumidification & Pressure-Drying Equipment) – March 2027
 - Multiple volunteers to help with Chapter 25 – Darrell, Dhruv Hoysall, Alois (Mechanical Dehumidifiers) – July 2027
 - Jason Freudigmann, Shirley Hall & Peter Makris volunteered to help with Chapter 51 (DOAS) – July 2027
- Saeed will download chapters and send to these volunteers to begin reviewing for any potential changes.
- Chapter 32 – Sorbants and Desiccants – was updated in 2024, will be due for 2028

DOAS Design Guide:

- Kevin, Ronnie & Ben believe there is no need to update the DOAS design guide just because of the ASHRAE 198 and AHRI 920 revisions.

Research: (Alois)

- RP1566 – PES evaluated bidders. The committee needs to vote today. A response is required back to ASHRAE by 5:00 PM ET today.
 - Matthew Lea, William Worek & Alois volunteered to be on the Project Monitoring Subcommittee (PMS)
 - Alois moved to accept the volunteers. Ronnie seconded. Vote passed 8-0-0-3-CV.
- RP1865 – DOAS SAT (Jason W.) – The RP is focused on determining the most efficient DOAS supply air dry bulb set point for overall building energy usage. It was noted this research only looks at hydronic DOAS due to the inability to appropriately model DX-DOAS in energy plus. Youngsik Choi from Texas A&M was one of the researchers and was present in the TC meeting. Kevin Muldoon asked Youngsik to include a disclaimer when publishing the research to note this. Texas A&M has passed their simulation results to a sub-contractor to further develop the logic into something that can be adopted by the Guideline 36 committee. Work is scheduled to complete March 31, 2025.
- TC5.11 is submitting an RTAR to research a minimum relative humidity level in buildings to support occupant health and productivity, and they would like TC8.10 to co-sponsor. Alois circulated the proposal prior to the meeting.
 - Alois moved to co-sponsor. Second by David Baird. Vote passed 8-0-0-3-CV.
- TC2.2 Latent Loads for Crops co-sponsorship – No updates
- Demand Control RTAR – No updates
- Comments for RAC – Carl Huber:
 - No new RTARs were submitted at this conference.
 - Funding is available.
 - Carl encouraged the TC to submit any desired RTARs.

Standards (Jason Freudigmann):

- 139 – ASHRAE staff was previously concerned with some mandatory/guideline language in 139. Normative references also need to be updated. Jason Freudigmann will confirm with Mark Weber about what needs to happen. A review of previous meeting minutes (June 2024) suggest the committee voted to reaffirm. Jason to confirm current status/needs.
- 174 – Need to determine if we want to reaffirm, revise or withdraw. Jason to confirm if this was also reaffirmed in Indy.
- 190 – Same status as 174.
- AHRI standard for wrap-around heat pipes – No update, not currently a project
- AHRI 920 – in format review. Plan to go out for public review around April
- ASHRAE 241. 241 is published, but was published outside of normal processes and will soon go out for public review.

Due to time constraints, the committee moved to executive session at 3:00 PM ET to review the PES comments on RP-1566.

Committee approved the PES-recommended bidder for RP-1566 by a vote of 8-0-0-3-CV.

Meeting adjourned at 3:10 PM ET.