

AGENDA
ASHRAE TECHNICAL COMMITTEE 6.3
RESIDENTIAL AND LIGHT COMMERCIAL CENTRAL FORCED AIR HEATING AND COOLING SYSTEMS
TC 6.3 Forced Air Heating and Cooling,

Tuesday, January 26, 2021
1:00 p.m. – 4:00 p.m. ET
Webinar (Chicago, Winter Conference 2021)

1. Call to Order – Review Title, Scope and Purpose of TC 6.3

- Chair identified that the title change that was previously voted on by the committee was still under review at ASHRAE.
- Chair announced that agenda order will be adjusted to accommodate time constraints of presenting members

2. ASHRAE Code of Ethics – Chair reviewed

3. Standards Subcommittee Report

- Standard 103 was a reported to have the validity of 2 references in question. Review by SRS will determine if so and will provide response to the TC. Standards Liaison (Craig Wray) indicated that the TC will determine the change and the SRS will make the change. Current status is waiting on response from SRS.
- Standard 193 – Change purpose: mandatory language corrections. Public review complete. No responses. Next steps await to complete.
- Standard 152 – Change purpose: mandatory language corrections. No report.

4. Roster – Chair reviewed the attendance; confirmed all 9 voting members were present.

5. Minutes Approval from June 1, 2020 – No changes

Motion to approve / 2nd: Roy Crawford / Eric Berg

Vote: **9 – 0 – 0**

6. Research Subcommittee Report

- New RTAR combines previously approved individual RTARs.
Title: *Evaluation of Standard 103 Transient Components and Thermostat Cycle Times on the Resulting AFUE*
Motion to approve / 2nd: Paul Haydock / Larry Brand
Vote: 9 – 0 – 0
- New RTAR from TC1.3
Title: *In-Tube Condensing Flue Gas Heat Transfer and Pressure Drop with Enhancements for Residential Furnaces*
- Establish Liaison to TC1.3 for this RTAR. Paul Haydock volunteered.
Motion to co-sponsor the RTAR with TC 1.3 with P Haydock as liaison / 2nd: Roy Crawford / Diane Jakobs
Vote: 9 – 0 – 0
- Brainstorm other research topic areas. Concepts noted.
 - o A2L related topics pertaining to furnaces and air handlers
 - o A2L related topics pertaining to refrigerant effect on and by the distribution system
 - o The effect of alternate orientations of furnaces with A2L
 - o Effect of the new M1 standard

7. Functional Group Metrics – Chair reviewed metrics worksheet with committee

- Discussion on TC 6.3 continued existence.
- Suggestion to reach out to RBC for collaboration on programs and research.
- Members reviewed the functional group evaluation form. Exhibit B
- Motion for TC 6.3 to continue as functional group / 2nd by: Roy Crawford / Diane Jakobs.
- **Vote: 9 – 0 – 0**

8. MTG – VIC Report: No report; Liaison absent.

9. Announcements from TC Chair Meeting

10. Handbook Subcommittee Report

- SC Chair Jakobs reported that Handbook revisions missed the recently published handbook. Therefore, these revisions will roll over to next handbook publication cycle. Others invited to add content pertaining Ultra Low NOx technology, and decarbonization information.
- Volunteers: Anuj Mistry, Scott Creamer, Diane Jakobs
- No official actions

11. Program Subcommittee Report

- No programs for winter conference
- Smart Thermostat program continues in queue for next in-person conference
- Brainstorm. New program topics ideas noted:
 - o Load based testing (look to co-sponsor on TC 8.11 program)
 - o Hybrid controls
 - o AC fault detection (look to co-sponsor with TC 7.5)
 - o Decarbonization of Ducts

12. Website

- Update past research and program topics
- Chair to provide past agendas and minutes

13. ASHRAE Epidemic Task Force

- Addition of airborne particles and aerosols to scope

14. Future Roadmap

- Economizers – Consider adding new subcommittee
Fits light commercial scope. Proposal circulated prior to meeting (Exhibit A)
Motion to establish Economizers subcommittee with Andrew Hjortland as chair / 2nd by: Roy Crawford / Diane Jakobs.
Discussion: Consider effects of economizers during heating season and effects on furnace components. Look to add new content on economizers to handbooks. Initiate standards around economizers. Enlist several interested members.

Vote: 9 – 0 – 0

15. Old Business – None

16. New Business –

- TC leadership to change after summer meeting.
 - o Eric Berg to become Chair
 - o Andrew Hjortland to become Vice-Chair
 - o Paul Haydock to remain Secretary
- Discussion on TC 8.11 considering formation of MTG for Load Based Testing of forced air equipment. TC 6.3 to provide liaison member. Roy Crawford volunteered.

17. Meeting adjourned

Attendance:


































Voting Member Attendance

Voting Member	Company	Present (Y/N)
Anuj Mistry, Chair	Daikin US Corp	Y
Eric Berg, VC	Lennox Industries	Y
Diane Jakobs	Rheem	Y
Jon Winkler	National Renewable Energy Lab	Y
George Yaeger	Transform Sears Home Services LLC	Y
Paul Haydock, Secretary	Carrier Corp	Y
Roy Crawford	Johnson Controls	Y
Larry Brand	Frontier	Y (left meeting early)
Craig Grider	Intertek	Y

VM Present* = 9

* Note: Based on attendance at beginning of the meeting. All voting measures were held by consensus and thus reflected by the initial VM count.

Informative Attendance List:

-  Meeting started 12:54 PM
-  Berg, Eric joined the meeting.
-  Craig Wray (Stds Liaison) (Guest) joined the meeting.
-  Andrew Hjortland joined the meeting.
-  Diane Jakobs joined the meeting.
-  Roy Crawford joined the meeting.
-  Haydock, Paul joined the meeting.
-  Larry Brand joined the meeting.
-  Stefan Elbel joined the meeting.
-  Munk, Jeffrey joined the meeting.
-  Springer, Hunter joined the meeting.
-  Scott Creamer joined the meeting.
-  Henley, Caroline joined the meeting.
-  Kristin Heinemeier joined the meeting.
-  Winkler, Jon joined the meeting.
-  Snyder, Jeromy joined the meeting.
-  Kishan Padakannaya joined the meeting.
-  Yaeger, George joined the meeting.
-  David Yuill (Guest) joined the meeting.
-  Olsen, Mark joined the meeting.
-  Jason Makowski (Guest) joined the meeting.
-  bill roy (Guest) joined the meeting.
-  Craig Grider Intertek joined the meeting.
-  Kumar, Sunil (RMP) joined the meeting.
-  Kraft, Wayne joined the meeting.
-  Byron Horak Intertek joined the meeting.
-  Adrienne Thomle (Guest) joined the meeting.
-  Riley, Patrick joined the meeting.
-  Craig Wray (Stds Liaison) (Guest) left the conversation.
-  Olsen, Mark left the conversation.
-  Stefan Elbel left the conversation.
-  Nicolas Aouad joined the meeting.
-  Romeo, Antonio joined the meeting.