

**2017 ASHRAE ANNUAL MEETING
Las Vegas, NV**

TC8.11 Unitary and Room Air Conditioners and Heat Pumps

Monday, January 30, 2017: 4:15 – 6:30 PM

Location: Roman II

TC8.11 Subcommittee Meeting – Sunday, January 29, 3:00-5:00 pm – Roman I

Minutes

1. Call to order Messmer
 - a. Meeting was called to order at 4:15 p.m.

2. Introductions All
 - a. Introductions were made by each person in the room. We had a large room with good attendance.

3. Determination of a quorum Messmer
 - a. Quorum was met. 12 of 12 voting members present
 - b. Man Hoe Kim attended a portion of the meeting and did not vote. His votes are shown as abstaining when he was not present.

4. Announcements and Highlights Messmer

From TC Chairs Breakfast Meeting

 - a. The chair reviewed items from the TC chairs breakfast.
 - b. ASHRAE Announced TCs can/will have their own basecamp site.
 - i. Additional sites can be setup for Subcommittees as well.
 - ii. Eric Berg asked if there is a formal person in the TC that needs to request addition Basecamp sites. No formal answer was known at the time.
 - c. The full TC chairs breakfast document is available online.

5. Agenda additions All
 - a. No additions to the agenda were requested.

6. Liaison reports (as they arrive) Liaisons
 - a. MTG – Low GWP Refrigerants Uselton
 - i. They are working on getting a Track setup for one of the upcoming conferences to headline Low GWP Refrigerants.
 - b. MTG – ASEC Baxter
 - i. Regarding the MTG-ASEC 1804-WS revision, RAC has returned it to the MTG with comments. It was resubmitted in December 2016, they are awaiting answer/feedback for RAC.

7. Approval of minutes from St. Louis Messmer
 - a. A few minor additions/edits were requested.
Motion to approve St. Louis draft minutes, with those amendments, by Ray Rite.
Seconded by Dutch Uselton.
PASSED unanimously 11-0-0 CNV (chair not voting).

8. Membership/Roster Messmer
 - a. New Secretary: Kasey Worthington replaces Luis Escobar
 - b. New Program Chair: Jeff Warther
 - c. Rolling off: Chris Stone, Man-Hoe Kim, Roy Newberg, Rusty Tharp
 - d. Rolling on: Darin Nutter, Henry Ernst, Bo Shen, Kishan Padakannaya (added 2.7.17)

9. Subcommittee reports

a. Programs

Kevin Mercer

- i. 8.11 sponsored only one Seminar for Vegas “How Faults Affect Your System’s Performance and How to Model the Faults’ Effects in Advance”
- ii. Comment was made that 8.11 participation in Programs in the last few years has been low.
- iii. Ideas:
 1. Summary of DOE Final Rule Making
 - Need More Volunteers
 2. Overview of low-GWP refrigerants
 - Should be ready for Chicago
 3. Effect of System Performance due to fouling, frosting, and corrosion
 4. Advance Residential HP Systems
 5. Rating Method based on Controls
 - Vance to Lead
- iv. Motion 8.11 is willing to Co-Sponsor Programs related to low-GWP refrigerants with the final judgement given to 8.11 Program Chair by Sivakumar Gopalnarayanan and seconded by Byron Horak.
PASSED 10-1-1.

b. Research

Eric Berg

- i. See Research Subcommittee Report



TC 8_11 Research
Summary.xls

- ii. Notes from research meeting breakfast
- iii. TRP-1721 Recommended Bidder Vote
 1. Three bidders submitted for this RP: Purdue, Auburn and Thermal Solutions. The PMS recommendation is Purdue.
Motion to accept the PMS recommendation by Sivakumar Gopalnarayanan and seconded by Dane Christensen
PASSED unanimously 10-0-1 CNV (chair not voting).
- iv. TRP-1743 Recommended Bidder Vote
 1. Prior to this meeting, by letter ballot, Oklahoma State University was granted this RP
- v. TRP-1785 Recommended Bidder Vote
 1. Seven bidders submitted for this RP: Oklahoma State University, Lafayette, Auburn, Kansas State University, Maryland, and Thermal Solutions. The PMS recommendation is Oklahoma State University.
Motion to accept the PMS recommendation by Rusty Tharp and seconded by Chris Stone
PASSED unanimously 10-0-1 CNV (chair not voting).
- vi. WS-1733
 1. WS was returned by RAC with comments; Chad Kirkwood has addressed these comments and would like to resubmit.
 2. Discussions:
 - Kevin Mercer commented: RP length should be changed from 12 months to 18 months
 - Byron Horak commented: he would like to change the “or” to an “and” in the following statement in the Other Information for Bidders Section: “Potential bidders must have test facilities that meet ANSI/ASHRAE 41.2 or ANSI/ASHRAE 37.”
 - Byron Horak commented: Darryl Denton is listed twice on the PES list.

- Dutch Uselton commented: Would like to see the lowest tonnage tested be between 0.5 and 0.75 Tons.
- 3. Motion to Resubmit WS-1733, addressing the RAC and 8.11 comments, by Chris Stone and seconded by Dutch Uselton
PASSED unanimously 10-0-1 CNV (chair not voting).
- 4. Open Ideas
 - Code Tester Design (relative to Std. 37 and Std. 41)
 - Temperature Measurements (relative to Std. 37 and Std. 41)
 - Dew Point Specifications (relative to Std. 37 and Std. 41)
 - Room Stratification on Unit Performance (relative to Std. 37 and Std. 41)

c. Handbook

Ray Rite

- i. HVAC Systems & Equipment: CH 49 & 50 were published Last Summer
- ii. HVAC Applications: CH1 – 2019: We need to begin reviewing
 - 1. Volunteers: Sivakumar Gopalnarayanan , Chad Bowers ,Kevin Mercer, and Scott Wujek, Randy Palm, and Jun Lee

d. Standards

Chris Stone

- i. Chris Stone provided an update on the standards relevant to TC 8.11 – a detailed summary is in the attached Standards Report.



Std_Report_January
2017_TC811 RevA.d

ii. Brief summary:

- 1. ASHRAE 137 - We may be asked to withdraw this standard as TC6.6 may vote to do that.
- 2. ASHRAE 37/116 - revision of this combined standard continues. Both 37 and 116 were previously reaffirmed.
- 3. Comment was made that Std. 41 would like help updating all its open standards. It is asked that anyone interested please get involved with its TC/SPCs and/or talk with Chris Stone. TC8.11 should have interest in these as they are referenced and used within the standards maintained by TC.

e. Web site

Darin Nutter

- i. Website is completely transitioned over to the New Format
- ii. It was asked to provide Darin with Research Citations related to the RPs so that they could be linked to the TC website.

10. Old Business

- a. None

11. New Business

- a. A new Track in Houston 2018 that this TC should be aware of will be “Optimization For HVAC&R”

12. Adjourn

a. **Motion to adjourn.**

Meeting was adjourned at 7:14 p.m.

VOTING MEMBERS FOR THIS MEETING (Need 7 for a Quorum)

Dutch Uselton	Chris Stone	Man Hoe Kim
Kevin Mercer	Ray Rite	Kasey Worthington
Roy Newberg	Dane Christensen	Rusty Tharp
Craig Messmer	Byron Horak	Sivakumar Gopalnarayanan