

TC 6.3, Central Heating and Cooling - Meeting Minutes (draft ml 7/10)

Sign-in Sheet at June 28, 2010

Members Present

Mark Olsen - chair last meeting (10)
Iain Walker - new chair (13)
Roy Crawford- vice chair (13)
Chuck Gaston - handbook (10)
Jeff Siegel (12)
Paul Francisco (13)
Iain Walker (13)

Members Absent

Dianne Griffiths – secretary (10)

David Delaquila (11)
Harvey Sachs (10)
Roger Hedrick (10)
Jim Cummings (12)
Gary Nelson (12)
Paul Haydock (12)
William Rittelmann (12)

Distribution

All entries shown on committee roster

Corresponding Members Present

Mike Blanford
Aniruddh Roy
Bert Phillips
George Yaeger
Mike Lubliner - research on Douglas –
program

Guests

Larry Brand
David Springer
Eric Werling
Jim RanfoneTom Cook
Eric Berg

ASHRAE - TC 6.3, Central Forced Air Heating and Cooling

Call to Order

The meeting began at 1:05 p.m. in Sandia CC east with introductions.

Copies of the agenda and the Orlando minutes were previously distributed

A quorum was not present.

Minutes of Last Meeting

Minutes not approved due to lack of quorum.

Announcements

Chair Olsen discussed various items from the TC Chair's breakfast.

- 1) TC work between meetings was encouraged using ASHRAE Webinar to allow for more progress on TC efforts between meetings.
- 2) Discussion regarding holding TC sub-committee meetings on Sat. Some members say this would conflict with Sat schedules (e.g. 62.2)

Roster Review

- 1) 5 rolling off after Albuquerque (Olsen, Gaston, Griffiths, Sachs, Hedrick)
- 2) George Yaeger will become a voting member in July 2010.
- 3) Iain Walker will be the new 6.3 chair
- 4) Roy Crawford will be the new vice chair
- 5) Mike Lubliner will roll back on as a voting member and continue as research chair
- 6) Mark Olsen will be new TC webmaster
- 7) Jon Douglas will be new TC programs chair and voting member.

Subcommittee Reports

Handbook (Gaston)

Commented [ML1]:

TC 6.3 responsible for Applications Chapter 9, Design of Small Forced-Air Heating and Cooling Systems and Applications Chapter 32, Furnaces. Chuck is looking for others to assist as well. The new chapters need must be complete and voted on by Jan 2011. Final for publication deadline are between March-June. Chuck shared handout of a proposed outline for the 2012 edition of these chapters. The programs meeting reviewed areas for improvement to these chapters including an update to reflect std 152 and std 193. Current volunteers: Mike Lubliner, George Yaeger, Paul Haydock, John Stoops, Mark Olsen, John Andrews, Iain Walker, Dianne Griffiths for chapter 9. Current volunteers for chapter 32 include: Larry Brand, Charlie Adams, Jim Lutz, John Talbot, Harvey Sachs, Paul Haydock, Stephen Kowalski, Iain Walker.

Programs (Olsen, Temple not present)

A draft Program Plan is being prepared by new program chair Jon Douglas (attachment 1). Additional efforts are needed to update the future program plans.

Lubliner proposed a forum on 193 for Las Vegas (attachment 2). The forum is co-sponsored by TC 5.3 and TC 9.5 will allow for the discussion of issues associated with this new standard.

Research (Lubliner)

The research subcommittee chair encouraged support of ASHRAE Research Plan (available) online. M&V will be important with stimulus spending on new equipment. Smart grid will add capabilities and is also a hot research topic.

The research subcommittee met and discussed current TC 6.3 sponsored RP-1449 and Principal Investigator, Armin Rudd provided an overview of the current effort. The PMS approved a no cost extension for the contract which will allow for the analysis of additional dehumidification strategies not in original work plan.

Jeff Siegel reported no progress on RTAR 1563, "*Impacts of Duct Leakage on Residential Indoor Air Quality.*"

TC 6.11 has the lead on RP-1581. This research is related to the current size limits of testing labs and the need to test larger size equipment.

Three potential RTARs were discussed; 1) low-loss HVAC ducting systems and relationship to new ECM type motors 2) Impact of zoning systems with dampers vs. multiple systems and 3) Issues associated with the use of flow capture hoods designed for commercial buildings in residential systems.

Web Site

Mark Olsen noted that our website is currently very out of date. Really need a volunteer.

ASHRAE Learning Institute (Gaston)

Nothing specific to report - ASHRAE is generally looking for course proposals from people interested in teaching. Compensation is not known. Current offerings are predominantly non-residential.

Standards

Lubliner reported that Std. 193 has been through public review and approved final publication proof. SPC 193 will continue to be an SPC in order to address issues raised by TC 5.3 and will be balloting a proposed scope change to delete VAV equipment from 193.

Francisco discussed SPC 152R. They met Sunday morning. Good progress towards wrapping it up relatively quickly. Looking at issues related to hydronic systems continues. Refrigeration systems remain needing a champion (or dropped)

Old Business - None reported

New Business

The entire committee thanked chairman mark Olsen for his outstanding management of TC 6.3 over the past few years, and expressed appreciation for his on-going commitment to TC 6.3 activities.

Adjournment

The meeting adjourned at 3:40??

Attachment 1

TC 6.3 – Program Plan

June 2010

Meeting	Transactions Paper	Conference Paper	Seminar	Forum
Las Vegas January 2011 Zero Energy Design				<i>Introducing ASHRAE Standard 193 (Lubliner)</i>
Montreal June 2011 Net-Zero Buildings				
January 2012 Chicago				
June 2012 San Antonio				

Attachment 2

Proposed TC 6.3 Forum for Las Vegas

Track: HVAC Systems and Equipment

Level: Basic

Sponsor: TC 6.3 Central Forced-Air Heating and Cooling Systems

Chair: Michael Lubliner, Member, Washington State University Extension Energy Program

Title: Introducing Standard 193 "Method of Test for Determining the Airtightness of HVAC Equipment"

Abstract: One of the most important predictors of a building's energy efficiency is its HVAC system. Air that is not delivered to areas as specified in the building design is air that is not being used efficiently.

Standard 62.2, limits allowable air leakage between garages and houses due to leaks in the forced air HVAC system, while Standard 152 includes HVAC system air leakage in estimates of distribution system efficiency for residential buildings. Neither of these standards provides a way to determine the tightness of specific HVAC components. It is the aim of Standard 193 to provide an accurate and repeatable method of testing the airtightness of HVAC "boxes" as a standardized laboratory test procedure where results may be used for comparison purposes. Standard 193 can be used for a variety of HVAC system types that move less than 3000 cfm (1400 L/s), Standard 193 tests results may be used by cognizant authorities who wish to regulate the air leakage of HVAC equipment and by contractors and installers that wish to specify equipment based on known leakage characteristics.

TC 6.3 Committee Meeting

Research Subcommittee Report:

Mike Lubliner reported on several items:

RP-1449

This is a modeling study that is examining 15 strategies to dehumidify indoor air in hot, humid climate. The prime contractor is Building Science Corp. Arman Rudd is the PI. Hugh Henderson and Don Shirrey are subcontractors.

- Just completed Task 4 "Develop detailed strategy"
- \$100k remind from a \$160k contract

- A 7 month no-cost extension was requested during the PMS meeting. This extension is needed because the PMS has asked them to research more strategies than originally expected.
- The PMS expects the contractor to complete Task 5 by Las Vegas.
- Iain Walker suggested a 12 month extension. Mike Lubliner to write motion for letter ballot.

A possible new project idea is “duct sizing strategies in existing systems”. The results from this project provide some additional information for the ACCA quality installation effort.

Another new project is RP-1581. Newer, high efficiency systems can’t be tested using the current methods of test because of large size. This RP would identify alternative methods of test for these new systems.

Jeff Siegel briefly discussed RTAR-1563 – Measuring IAQ parameters with ducts in different locations.

Mike Lubliner thanked George Yeager for his role in mediating the discussion between SPC 193 and TC 5.3.