

TC Cover Sheet
TC 6.3, Central Heating and Cooling

June 24, 2008

Attendance (ending year of membership)

Members Present

Paul Francisco (08)
Roger Hedrick (10)
Keith Temple (09)
Michael Lubliner (09)
Dianne Griffiths (10)
Mark Olsen (11)
Iain Walker (08)
Mark Modera (08)

Members Absent

Evelyn Baskin (08)
David Delaquila (11)
Harvey Sachs (10)
Jonathan Douglas (11)
Charles Gaston (10)

Distribution

All entries shown on committee roster

Corresponding Members Present

John Talbott
Mike Blanford
Gary Nelson
Roy Crawford
John Andrews
Frank Jakob
Jeff Siegel

Guests

Theresa Weston, TAC
Cynthia Callaway, Handbook Liaison
Larry Markel, Research Liaison
Byron Horak
Sunil Nanjundaram
Collin Olson
Ian Nelson
Mark Cherniack
John Talbott

ASHRAE TC6.3
Central Forced Air Heating and Cooling

Minutes of Meeting
June 24, 2008
Salt Lake City, UT

Call to Order

The meeting began at 1:15 p.m. in Grand Ballroom E of the Salt Palace Convention Center. A quorum was present. Copies of the agenda and the New York minutes were previously distributed. A motion to approve the agenda (Lubliner/Temple) was approved 7-0-0.

Minutes of Last Meeting

The New York City minutes were moved for approval (Hedrick/Lubliner), and the motion was passed 7-0-0.

Announcements

Theresa Weston, TC Section Head, presented the outgoing chair, Paul Francisco, with a certificate and thanked him for his service. Mark Olsen will be the new chair.

Chair Paul Francisco discussed various items from the TC Chair's breakfast. There is one strategic plan, with 4 objectives. February 1 is the deadline for electronic content for the Handbook. ASHRAE will send a letter to employers thanking them for the service of the members.

Cindy Callaway, the Handbook Liaison, spoke and encouraged the TC to begin thinking about the next version. She offered to make a presentation at the next meeting of the type of content that is being provided in the CD+ version of the handbook.

Larry Markel, Research Liaison, spoke about the new research strategic plan being developed. Jeff Spitler at Oklahoma State is leading the development, and they are looking for comments at <http://CEE.ASHRAE-Research-Strat-Pln.sgizmo.com>.

Roger Hedrick stated that his attendance schedule at future ASHRAE meetings will be changing, and that he would not be able to continue as Secretary. Diane Griffiths volunteered to become the new Secretary.

Subcommittee Reports

Handbook

The next revision of the Handbook chapters are three years away. However, members are requested to review the furnace and small duct system design chapters to identify needs for updating. If material is available, it should be submitted as early as possible since it will be published in the electronic version.

Programs

Keith Temple circulated the program plan. There have been revisions to the process for program chairs interacting with the society.

The TC presented two seminars in Salt Lake City. Mark Cherniack discussed the Tuesday seminar on climate optimized cooling system rating standards. There were three speakers, Don Shirey, John Proctor, and Harvey Sachs. There were 60 to 80 attendees. Paul Francisco discussed the Sunday seminar on ASHRAE's Impact and Potential for Weatherization. There were about 60 attendees.

There are two programs proposed for Chicago. The first is a Forum on "Air-Tight Air-Handlers and Furnaces – Issues for Standard 193R." The second is a Forum on "Flow Measurement for Small Forced-Air Systems." The planned speakers are Iain Walker, Paul Francisco, and Keith Temple.

Temple/Walker moved to approve the program plan as submitted. Motion approved 7-0-0.

TC 8.11, Unitary Air Conditioners and Heat Pumps, has inquired about TC 6.3 cosponsoring a seminar. "After SEER – What's Next?" Motion by Temple/Olsen to approve co-sponsoring the session passed 7-0-0.

Research

John Andrews discussed the proposals that were submitted in response to the TC's RFP on residential humidity control. John was filling in for Mike Lubliner, since Mike felt that he might be perceived as having a conflict of interest. Proposals were received from Building Science Corporation and EPB Consulting. Both proposals were very good, and the ratings were very close. The TC went into closed session to discuss the proposals. A motion to recommend a bidder (Hedrick/Temple) was approved 5-0-2.

John discussed the Residential and Small Commercial Research Coordination Group, which met on Sunday morning. The bulk of the discussion was on ASHRAE's plan for a design guide on existing residential construction.

Mike Lubliner reported on the Research Subcommittee meeting.

Paul Francisco discussed an old RTAR regarding heating performance of heat pumps in the Pacific Northwest, particularly relating to potential installation errors. This has been on hold pending similar work being done by others, which has now been completed. The results of this work may result in modifications to the RTAR.

Jeff Siegel discussed a proposed RTAR on "Impacts of Duct Leakage on Residential Indoor Air Quality." The subcommittee proposed some modifications to the proposed RTAR, and the revised draft will be sent out to members of the TC for review. SSPC 62.2 and TC 4.3 have both expressed interest in cosponsoring the work.

Mike Lubliner discussed possible areas for future research. The task related to Standard 103 is one possible area. A possible project to develop a cross-referencing database of where ASHRAE documents, especially standards, might be referenced was discussed. There was a sense of the committee that this is a worthwhile concept.

Web Site

No report.

ASHRAE Learning Institute

No report.

Standards

Mike Lubliner discussed SPC 193R activity. The meeting did not have a quorum, but no committee votes were needed. Manufacturers are concerned about the cost of running the tests, but there are also concerns about the results being as applicable as possible to real world operation, and the committee is grappling with the issue. Iain Walker discussed the issue of where possible test procedures pressurize or depressurize the entire box, while in operation part of the box is positive and part is negative. Ideally, this duality will be addressed in the standard, and he described work at LBNL related to this issue. Mike asked the group about a rumored standard on leakage of VAV boxes.

Paul Francisco discussed SPC 152R. Their first formal meeting was held in Salt Lake City. The group developed a list of issues that might be included in the standard, particularly those issues which had been dropped during development of the current standard.

John Talbott discussed SPC 119. They had an informal meeting on Sunday. SPC 119 and SPC 152R were scheduled to meet at the same time, which is a problem because they share a significant number of members. The issue will be brought up to SPLS and to ASHRAE Meeting Planning.

Old Business

No old business.

New Business

No new business.

Adjournment

The meeting adjourned at 3:05 p.m.

TC 6.3 – Program Plan June 2007

Meeting	Symposium	Seminar	Forum
New York January 2008 Net Zero Energy	Ability of Ratings to Identify Better Performance: Do We Know What to Expect? (Francisco) 2 papers Tues. 9:45		
Salt Lake City June 2008 Benchmarking papers due 9/28/07 program due 2/8/08	<i>Measured Performance of Small Forced-Air HVAC Systems (Francisco)</i>	<i>1. Climate Optimized Cooling: Reality and Future Directions (Cherniack) 3 speakers, TC 9.5 cosponsor*</i>	<i>2. Benchmarking Leaky Air-Handlers and Furnaces – Who Cares? (Lubliner)*</i>
		<i>3. ASHRAE's Impact and Potential for Weatherization (Francisco) 3 speakers, cosponsor (62.2)*</i>	
Chicago January 2009 Sustainable Urban Design papers due 4/4/08 program due 8/8/08		<i>Should Building Cavities be allowed to be used as part of the HVAC Distribution System? (Cummings)</i>	
		<i>Performance of Wall-mounted Supply Air Outlets in Small Forced-air Systems (Temple/Lubliner)</i>	
Louisville June 2009 Optimal Air Quality papers due 9/26/08 program due 2/09		<i>Building and HVAC Pressure Imbalances</i>	
		<i>Perspectives on Standard 193 (Lubliner)</i>	
Orlando January 2010 ?? papers due 4/09 program due 8/09	<i>Forced-Air Distribution Systems in the Conditioned Space (Lubliner)</i>	<i>Humidity Control Options and Costs</i>	<i>Duct and HVAC Insulation: sweating, noise, energy etc. (Lubliner)</i>
Albuquerque June 2010	<i>Cost Effective Latent Cooling Options (Cummings)</i>		

*Programs approved for New York by TC but not accepted in Program

Other Potential Topics:

HVAC System Improvements in Modular Homes

Results of ARTI Research Projects

Changes to Standard 152

Energy Tax Credits for Residential HVAC – Is It Working and What Does It Cost? (Rocky) approved for Long Beach

High Altitude Applications and System Performance (Rittelmann), TC 6.10 cosponsor

TC 6.3 – Past Programs

Meeting	Symposium	Seminar	Forum
Cincinnati June 2001		Update on Standards for Residential and Light Commercial Central Systems (Haydock) 50 attendees	Experiences with Residential HVAC in HUD-Code Manufactured Homes (Lubliner) 22 attendees
Atlantic City January 2002	Depressurization and Venting Issues for Residences (Jakob) 37 attendees		
Honolulu June 2002		Uncontrolled Airflows in Small Commercial Buildings (Kweller) 50 attendees	
Chicago January 2003	Advances and Issues in Residential Thermal Distribution System Efficiency (5 speakers - Andrews) 35 attendees		What should the “Design of Small Forced Air Systems” Chapter of the Handbook include on Duct Design? (Temple) 7 attendees
Kansas City June 2003	Advances and Issues in Residential Thermal Distribution Efficiency (5 speakers - Temple) 35 attendees	Impacts of Duct Systems on Indoor Air Quality (5 speakers - Siegel) 50 attendees	
Anaheim January 2004	Factors Influencing the Energy Performance of Forced-Air Systems (3 speakers -Lubliner) 60 attendees		
Nashville June 2004	Forced Air Distribution System Performance (5 speakers - Andrews) 60 attendees	Best Choice Cooling System Airflow Rates for Different Climates (5 speakers - Cummings)	
Orlando February 2005		What can ASHRAE Standard 152 Tell Us About Conditioning Our Houses? (4 speakers - Francisco) 20 attendees	
Denver June 2005	HVAC Systems and Performance in Building America Homes (Vohra) 50 attendees	How Should Thermal Distribution Efficacy be Defined? (Rittelmann) 40 attendees	What Often Ignored Factors Affect Performance of Residential Forced-Air Systems (Gaston) 15 attendees
Chicago January 2006	Managing Return Air in Residential and Small Commercial Buildings (3 authors - Francisco) 50 attendees		A look forward to 2020 for small forced-air H and C systems (Rocky) 21 attendees
Quebec City June 2006			The Role of Forced-Air Systems During Extraordinary Events (Siegel) 30 attendees
Dallas January 2007		Design Considerations for Multi-zone Residential Forced-Air Systems (Rittelmann) 50 attendees	
Long Beach June 2007	HVAC System Improvements in Manufactured Housing (4 papers - Walker) 25 attendees	Heating with Forced Air Heat Pump Systems – Past, Present and Future (4 speakers - Lubliner)	What is Needed to Commission Air Distribution Systems for Small Commercial Buildings (Wray)
New York January 2008	Ability of Ratings to Identify Better Performance: Do We Know What to Expect? (2 papers - Francisco)		

ATTACHMENT 2