



Shaping Tomorrow's
Built Environment Today

1791 Tullie Circle NE ▪ Atlanta, Georgia 30329-2305 ▪ Tel 404-636-8400 ▪ Fax 404-321-5478 ▪ <http://www.ashrae.org>

ASHRAE TC 7.7 Test and Balance

Meeting Minutes –Dallas, TX

January 28, 2013

1. Call to Order
 - a. Called to order by Richardson at 2:15 PM
2. Introductions
 - a. Self-introductions; Sign in sheet passed around
 - b. Voting members: Cappelin, Prather, Hegberg, Lorch, Richardson, Bornside, Hamilton, Faris, Kettler (9/11) Quorum present – Cappelin left early; Stegall and Rose not attending
 - c. Welcome to all visitors
3. Approve Minutes from San Antonio
 - a. Motion to accept by Lorch; Second by Prather; 8-0-0-3; Kettler, Faris not present Minutes approved.
4. Recognize Liaisons
 - a. Phil Haves – Research: money is available for projects; new RTAR process to be streamlined
 - b. David Claridge – Program Track Chair: Track 6 in New York: Building Performance and Cx for Operation and Management
5. Discuss issues from TC Chair's Breakfast (see attached agenda from TC Chair Breakfast)
 - a. 2012-2013 Hightower Award Recipient- Lucas Hyman, TC 1.10
 - b. They had a YEA mixer on Sunday at noon serving pizza
 - c. Roster update will be completed at this meeting for the July, 2013 to June, 2014 year. See Hegberg to add to membership. Suggest Charlie Wright, Stephen Hanser and Jim Hocht for voting members.
 - d. All TC Chairs and Vice Chairs must attend the Training Workshop yearly
 - e. Meeting procedures have been updated in the TC MOP
 - f. The ASHRAE code of ethics were reviewed
 - g. A new TAC TC Presentation has been developed for TC Members to present to their chapters
 - h. The 50% Refrigeration Commissioning Guide will be available for Broad Peer Review 1/21/13 to 2/6/13



- i. Employment Discipline has been added to the ASHRAE BIO Online Input Form and everyone is asked to update your BIO
 - j. E&P Beta Test #3 TC meetings was being held at the Dallas meeting
 - k. Comments are requested for AHRI's *Transition to low Emission HVAC&R Issues and Solutions*- Public Comment Draft 1/21/13 to 2/8/13
 - l. New MTGs (group of TC's to discuss multiple disciplines) MTG-CCDG- Cold Climate Design Guide Development
 - m. Need TC volunteers willing to support Content Development and Quality Control for Society Technical Program at Society Meetings .
 - n. CEC recently proposed or implemented Technical program changes. Asked Hamilton to attend Tuesday at noon.
 - o. An option for TC Subcommittee Meeting via Conference Calls and Web Meetings.
 - p. Denver meeting all papers due September 24, 2012.
 - q. New ASHRAE Wiki launched
6. Subcommittee reports;
- a. Handbook (Fred Lorch, Chair)
 - i. Currently have four reviewers; Mark Hegberg, Gaylon Richardson, John Hamilton,- assigned chapters and sections for review
 - ii. Handbook will meet Saturday 2-5 PM; Program 1-2 PM
 - b. Program (Hamilton)
 - i. Balancing hydronic systems with diversity (Hegberg paper; Richardson Paper)- Denver
 - ii. Dual duct systems (co-sponsor TC 5.3) -Richardson / Faris in Seattle
 - iii. Steam and Condensate Seminar – Schlacter in Denver
 - 1. Hegberg to provide a body
 - iv. Field Airflow Measurement (forum)-Lorch in Denver
 - v. Laboratory Airflow Systems (co-sponsor TC9.10)– Richardson / Garner in New York
 - vi. Point / Control Sequence Verification vs. Commissioning (co-sponsor TC7.9) – Richardson / Kettler in Seattle
 - vii. Control Valves – Richardson in Denver;
 - 1. PICV - Hochtort
 - 2. Laboratory Testing of PICVs - Garner
 - 3. Control Reset – Temp vs. Pressure - Hegberg
 - viii. Low Airflow Testing – Bornside to investigate
 - ix. Tolerances of Field Measurements – Hamilton to investigate



c. Membership (Hegberg) – no report

d. Research (Spevak)

- i. The Service to ASHRAE Research Award was given to Herman Behls, PE, FASHRAE. Nominated by TC 5.2. Been an ASHRAE member since 1965. Worked on RP 2.
- ii. ASHRAE has 62 active projects with a total value of \$12 million. Since June 2012 8 projects completed, 10 started, 6 TRP released for bid.
- iii. In Dallas RAC evaluated only 3 RTARs - 1 rejected, 1 conditionally accepted, 1 returned. Evaluated only 4 work statements, 3 returned, 1 conditionally accepted. Potential TRP for bid in spring 2013 is 7. There are no WS waiting to be released for bid.
- iv. Common reasons for return - not appropriate for ASHRAE, "not adequate references to past work or existing literature", not clear how project will advance the state of the art, budget does not seem in line with work to be completed, incorrect or no reference to ASHRAE Research Strategic Plan 2010-2015.
- v. RAC now has a limit of \$200k for project approval.
- vi. "RAC is very serious in trying to reduce the effort of TC in preparing RTARs and WSs."
- vii. There has been an increase in Unsolicited Research Project, URP. These are not a shortcut to getting a new project into the system. They are being returned to TC for consideration.
- viii. Innovative Research Grants are for funding novel research. Last year ASHRAE received 18 per-proposals, asked 5 to complete a full proposal, no money awarded. Again this year 18 per-proposals have been received to be discussed by RAC on Wednesday.
- ix. Need more RTARs and WSs.
- x. Use your liaisons
- xi. Waiting for technical paper for RP1245
- xii. RTAR for flow grid measurement open duct, coil faces, filter faces, CFHs – Spevak to author prior to Denver
- xiii. RTAR for exhaust traverses – Spevak to author prior to Denver
- xiv. RTAR for flow hoods – Garner / Lorch
- xv. Wet bulb measurements below 700 FPM – Richardson
- xvi. RP1260 was just completed – Standard 41.6 will be revised.
- xvii. TC5.3 / SPC79 has sent an RTAR on pressure and temperature measurement in hydronic systems for review by TC7.7 (previously approved in San Antonio)

e. Journal – No report

f. Standards (Lorch)



- i. GP-11 Richardson, Hegberg, Kettler, Prather to serve on committee; Schlacter to chair; approval in two years
 - ii. Standard 111: first meeting, re-organizing the sections and moving all info. Item out of the standard; meet on Friday morning 8-12.
 - iii. Standard 151: committee is recommending re-affirmation; Lorch moved to re-affirm; Second by Faris; Vote 8-0-0-3 Chair Voting; Cappelin not in attendance
 - iv. Standard 208: No meeting at this session; Committee is being re-balanced; Hegberg to meet with BISRIA to discuss input
 - g. Education
 - i. No discussion.
 - h. Webmaster
 - i. Linder not in attendance; ASHRAE server crashed; Bob re-building files for webpage
- 7. Liaison
 - a. TC 1.2 (Spevak)
 - i. SSPC 41 is rewriting the 41 series standards
 - 1. 41.1 was just accepted
 - 2. 41.3 should be voted for approval in Denver
 - ii. Richardson suggested moving time of TC meeting to get more participation
 - b. TC 1.6 (Bornside)
 - i. Wiki is up and operating. Asked for review of definitions against wiki
 - ii. Reviewed methodology for changing definitions
 - c. TC 5.3 (Faris)
 - i. Adding application handbook chapter for chilled beams
 - ii. Research project on cooling coils; TAMU consortium is still presenting papers on ECMs vs. PSC motors and VAV terminal units
 - iii. RTARS active on chilled beams
 - d. TC 6.1 (Hegberg)
 - i. Dealing with standard 90.1 VAV pumping systems addendum ak
 - e. TC 7.9 (Kettler)
 - i. Online meeting format used
 - ii. Guideline 0.2 is approved for public review
 - iii. Other Guidelines are in process (1.3, 1.4)



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- iv. Standard 202 voted to send for 2nd public review
 - v. ICC is working with Cx industry to standardize Cx providers
 - f. TC 9.10 (Lorch)
 - i. Disbanding of S110 and recreation of 110 – new chair
 - g. MTG.EAS – Richardson representing TC 7.7. Suggested we make a suggestion to require all fan manufacturers to include the losses for back-draft dampers. One manufacturer has started showing this information on their fan curves
 - h. AABC (Richardson) – Standard is in process
 - i. ACG (Kettler) – Conference in Chicago in April.
 - j. NEBB (Wiggins) – no report
 - k. SMACNA (Howard) – SMACNA and AABC references were removed from 62.1
 - l. ACCA (Prather) – New radiant hydronics council and building performance council; Manual S residential equipment sizing will be out for review this spring
 - m. TABB (Hamilton) – Fume hood certification for supervisors; Fire and Life safety level 2 certification; total energy audit certification
8. Old Business
- a. None
9. New Business
- a. None
10. Comments
- a. None
11. Adjourn at 4:15 PM