

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.
1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400**

TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. 7.7 DATE January 25, 2016

TC/TG/MTG/TRG TITLE Testing & Balancing

DATE OF MEETING January 25, 2016 LOCATION Hilton Orlando, FL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Justin Garner	2015	Tom Cappellin	2015	Tom Schlachter
Donald Prather	2015	David Bornside	2013	Fred Lorch
Lloyd Lee	2015	Gus Farris	2012	Byron Hagan
John Hamilton	2015	TOTAL	3	Mark Hegberg
James Hoctor	2013			Gerald Kettler
Frank Spevak	<u>2012</u>			Gaylon Richardson
TOTAL	6			Alden Andrade
				Richard Rose
				Adrienne Thomle
				Steven Rogers
				TOTAL 10

DISTRIBUTION

All Members of TC/TG/MTG/TRG plus the following:

TAC Section Head	Adrienne Thomle	Adriene.thomle@honeywell.com
TAC Chair	Eric Adams	Eric.adams@carrier.utc.com
Manager of Standards	Stephanie Reiniche	sreinichie@ashrae.org
Staff Liaison	Mike Vaughn	mvaughn@ashrae.org
ALI / PDC Liaison	Darrin Nutter	dnutter@uark.edu
Chapter Tech Transfer Chair	Chad Moore	cmoore@ergms.com
Research Liaison	Phillip Haves	phaves@lbl.gov
Standard Liaison	Rick Larson	rick.ashrae@gmail.com
HB Applications	George Sestak	gsestak@verizon.net

MINUTES
TC 7.7 TESTING AND BALANCING
ANNUAL MEETING
MONDAY - JANUARY 25, 2016 (2:15 – 4:15 pm)
HILTOM ORANGE BALLROOM V
ORLANDO, FL

1. CALL TO ORDER

Vice Chair Prather indicated Chairman Garner was attending by teleconference. Mr. Prather asked all guests to provide contact information on one of the sign-in sheet that was being passed around. Secretary Schlachter asked all members present to verify the roster information and update as necessary.

A. Attendance: 6 of 9 voting members present – quorum is present

2. INTRODUCTIONS

Vice Chair Prather asked those attending to introduce themselves and identify the organization or company they represent.

3. APPROVE MINUTES FROM LAST MEETING

Minutes from the Atlanta meeting were passed out. After a brief discussion, several minor changes were noted. A motion to accept the minutes as amended was made by Mr. Spevak and seconded by Mr. Hamilton. The motion passed 6-0-0

4. RECOGNIZE LIAISONS

Section Head Adriene Thomle was in attendance, nothing to report

5. DISCUSS ISSUES FROM TC BREAKFAST

Vice Chair Prather briefly covered the information provided at the TC breakfast.

6. SUBCOMITTE REPORTS

A. Handbook - Justin Garner

Past Program Chair Fred Lorch reiterated his report from last meeting. The ASHRAE handbook Chairman was under the impression TC 7.7 had voted to reaffirm the 2014 version of the chapter. When presented the chapter changes, they were approved, but only after the ASHRAE due date. Based on the options available it was decided to hold off on the changes and submit them early during the next cycle.

At this meeting there was discussion by the committee a motion was made by Mr Spevak to have the revised approved chapter submitted for posting on the ASHRAE On-Line Handbook. The motion was seconded by Mr. Rose.

Mr. Hegberg indicated there were several items regarding hydronic testing he would like to address prior to the next cycle and he volunteered to assume the responsibilities of the Chairman of TC 7.7 Handbook Sub Chair.

Mr. Lorch reported that he has retired and that this will be his last meeting. We wished him well and thanked him for his dedicated service.

B. Program - Tom Schlachter

Mr. Schlachter reported that the TC 7.7 sponsored program in Atlanta - Seminar 60, "Steam Tips for the Engineer, Contractor, Commissioning Authority and Building Operator" was well received. With several attendees' commenting that they wished ASHRAE would present more hands on experience type seminars.

We have no programs for Orlando. There are two papers co-sponsored by TC 1.2 & 7.7 approved for St Louis. Both are based on RP-1245 and will be presented by Dr. Terry Beck of K-State. Both are regarding traverses and duct disturbances.

Mr. Spevak was asked to inquire about Dr Beck presenting a program regarding the information obtained in RP-1245 regarding Equal Area vs Log-T methods of duct traverses. Mr. Spevak indicated that he thought that was a good idea and it could be done at the next winter meeting in Las Vegas.

Mr.'s Richardson indicated that he and Mr. Garner would be applying to co-present a program with TC 9.6 in Las Vegas associated with their research into Blade vs Venturi air flow control.

C. Membership - Justin Garner

Mr. Garner welcomed all guests. The following members would be rolling off as voting members: Mr.'s. Spevak and Farris. Any guests or eligible non-voting members who wished to become members should contact a committee member and update their bio on the ASHRAE web site. Potential new voting members include Mr.'s Andrade and Hagan

D. Research - Frank Spevak

Mr. Spevak reported the following information on ASHRAE Research:

- The ASHRAE strategic plan has been extended thru 2018
- There has been a charge from the Tech Council to utilize reserve funds
- Reserve funds now total an excess of \$6 million
- There is a Presidential directive to form an Ad-Hoc MTG (2-4 yrs) to determine a dollar amount on how ASHRAE research has saved and impacted our lives
- There is an interest to investigate Post Data results from past research
- ASHRAE is looking to produce informative chapter presentations (power point or video) highlighting research projects
- Presently working on an RTAR on Flow Measuring Devices (Flow Hoods), progress has stalled and he is looking for assistance.
- Currently TC 7.7 has no RTAR's submitted
- Currently TC7.7 & 5.3 are co-sponsoring RP-1741, May add TC 4.7 as 2nd co-sponsor
 - FCU energy usage at full & part loads
- Prior to TC there were discussions on future research projects
 - Spread Sheet w/ equation for air, water and energy calc's
 - Spread sheet w/ recommended sensor accuracies
 - Data standards for TAB or Cx reports

E. Journal - Justin Garner

Committee is seeking a volunteer to serves as TC 7.7 liaison.

There was a brief discussion regarding selection of reviewers for Journal articles. In the past, it was felt reviews were not always requested to be performed by the cognizant TC. This may be

changing as the journal leadership has recently changed. Mr. Prather volunteered to collect a list of our TC members who feel they are qualified and present the list to the new Journal editor.

F. Standards

STD 111 - Gaylon Richardson

Mr. Richardson reported that they met Friday 1/22/16 and worked on Hydronic's Mr. Hegberg to finalize this section and submit this week. Vote for release for public review is slated for next meeting in St Louis. Next meeting will be changed from the normal Friday to Tuesday.

GPC 11 - Tom Schlachter

Mr. Schlachter reported the progress is being made updating the guideline. The committee met on Saturday 1/23/16 and has held monthly teleconferences. Tentative completion of First Draft is slated for next winter meeting in Las Vegas.

G. Education – Justin Garner

Committee is seeking a volunteer to fill this position.

H. Web Master – Justin Garner

Current sub-chair Mr. Linder could not be in attendance. Mr. Garner is reporting for Mr Linder. All websites has been modernized by ASHRAE and TC 7.7 has up to date. information. Mr. Linder has expressed the desire to step down, but will continue if there is no other volunteer. Mr. Andrade volunteered to assume this position.

7. LIASON REPORTS FROM OTHER TC'S OR ORGANIZATIONS

TC 1.2 – Frank Spevak

- SSPC 41 Standard Methods for Pressure Measurement
 - Pressure section revised and approved
 - Voted to revise temp section
- SSPC 41.2P Standard Methods for Uncertainty Analysis
 - Voted to reaffirm
 - Voted to revise Guideline 2, will add examples

TC 1.4 – David Bornside; Liaison not present, no other report

TC 5.2 – Gus Farris; Liaison not present, no other report

TC 5.3 – Byron Hagan

- Just starting to organize oversite committee for RP-1741, need 2-4 volunteers
- Looking for assistance from TC 7.7 and 2.4, there is no schedule to date
- Mr. Schlachter volunteered to assist

TC 5.6 – Gerald Kettler

- GPC-5 (smoke Control) is going out for review

TC 6.1 – Don Prather

- Sponsoring multiple seminars in Orlando
- Most interesting is about ECM motors for pumps, it is the same time as this meeting

TC 7.9 – Gerald Kettler

- Experiencing problems getting programs approved
- Looking to produce an all-day seminar with TC 7.7
- TC 7.9 Program Chair is Steve Wiggins

TC 9.10 - Lloyd Lee

- Standard 110 – Method of Testing Fume Hoods has been released for publication

AABC – Gaylon Richardson

- AABC has updated their standards
- The new standard has been approved by ANSI and will be available next month

NEBB – Richard Rose

- NEBB has published new procedures

SMACNA – Eli Howard; Liaison not present, no other report

ACCA – Don Prather

- Currently working with ASHRAE on Standard 211-P Energy auditing

ICB / TABB – John Hamilton

- Mr. Hamilton reported TABB has been working with the state of California on standard forms used for Energy Certification of HVAC system at the time of building start-up
- There was a discussion regarding the TABB training facility in St Louis. Mr.'s Hamilton and Hegberg to look into the possibility of a tour of at next meeting, for either our TC or the entire conference.

8. OLD BUISNESS; None Reported

9. NEW BUISNESS

- Technical FAQ #83, committee had a brief discussion. Many were of the opinion both the question and answer were of a general nature.
- Mr. Richardson volunteered to write a specific answered to present to the committee for review at the next meeting in St. Louis.

10. ADJOURN

Motion to adjourn was made by Mr. Spevak, second by Mr. Hamilton and accepted by committee consensus.

NEXT MEETING:

St Louis, MO

Monday June 27, 2016 2:15 – 4:15 pm