

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, N.E./Atlanta, GA 30329  
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**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. 6.1 DATE August 8, 2016

TC/TG/MTG/TRG TITLE Hydronic and Steam Equipment and Systems  
DATE OF MEETING June 28, 2016 LOCATION St. Louis, MO

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Niels Bidstrup (non-quorum)	2015			
Scott Fisher	2015			
Larry Konopacz	2015			
David Lee	2015			
Frank Myers	2013			
Thomas Neill	2014			
Donald Prather	2013			
Rex Scare	2015			
Steve Tredinnick	2015			
Robert Walker	2015			

**DISTRIBUTION**

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

TAC Section Head:	Mark C. Hegberg
TAC Chair:	Dr. Thomas M. Lawrence
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	ALI/PDC – Cameron R. Labunski Chapter Tech. Transfer – Maggie Moninski Research – Harvey M. Sachs Special Pubs - Standard – Cyrus H. Nasser 2016 HB Systems - Forrest S. Yount 2017 HB Fundamentals – Van D. Baxter
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn

## 1. Call to Order:

Chair Scare called the meeting to order at 1:00pm. Chair Scare welcomed all in attendance and self-introductions were made. An attendance sheet was passed and signed by those in attendance. A roll call of voting members was conducted and a quorum was present with 9 of 10 voting members. One additional voting member arrived at 1:08pm. One voting member left the meeting at 1:19pm.

Technical Committee 6.1 is concerned with all aspects of hydronic and steam systems. This includes the application of boilers, chillers, terminal units, and all accessories and controls making up the total system as well as the design of the integrated system. In addition to comfort applications of both heating and cooling, snow melting systems are included. Cooperation with other TCs is recognized in areas such as control, noise and vibration, refrigeration, pumps and hydronic and service water piping.

## 2. Setting of the Agenda:

The Chair passed out an updated Agenda. Motion by Don Prather, second by Niels Bidstrup. Approved 8-0-1-1 CNV.

## 3. Approval of Orlando Meeting Minutes:

Motion by Donald Prather, second by Niels Bidstrup to approve the past meeting minutes. Motion passed 8-0-1-1 CNV.

## 4. Recognition of Liaisons:

Aykut Yilmaz (AHRI) present, no report.

Harvey Sachs (Section 6 Research Liaison) was present. He thanked all for their participation. He stated RAC is interested in RTARs with multiple TC sponsorship.

No other liaisons were present.

## 5. Chair's Report

Vice Chair Scare summarized the key items from the Section 6 Breakfast.

- (a) Any TGs, TRGs and MTGs need confirmation if they are continuing into 16-17 Society Year. We only have MTG-O&MEE which hasn't started yet.
- (b) New position e-mail alias addresses are created for each of the mandatory positions of the TC.
- (c) TAC Manual of Procedure has been reorganized and is posted on [www.ashrae.org/TCs](http://www.ashrae.org/TCs).
- (d) A new TAC Presentation template is available on the Technical Committee page of the ASHRAE website for TC members to use in presentations to their local chapters.
- (e) Basecamp is an online collaborative tool available to the TC for online meetings.
- (f) Starting in Las Vegas presenters with presentations not uploaded by the deadline will incur a 'strike' in a 3-strike policy. Once three strikes have accrued, the speaker will not be allowed to speak for up to one year.

- (g) Committee members will be receiving an email offering a ‘thank you’ letter for their service to be sent to their employer.
- (h) A new TAC Presentation template is available on the Technical Committee page of the ASHRAE website for TC members to use in presentations to their local chapters.
- (i) The Professional Development Committee (PDC) is seeking ideas for new ASHRAE Learning Institute (ALI) courses.
- (j) 2016-17 Hightower Award & Service nominations are due by September 1.
- (k) CEC announcing a call for reviewers for the 2017 Winter Conference and beyond. Contact Tiffany Cox [tcox@ashrae.org](mailto:tcox@ashrae.org) if you are interested.
- (l) ASHRAE Journal is looking for strong technical articles for the practicing engineer. Abstracts should go to [jscott@ashrae.org](mailto:jscott@ashrae.org).
- (m) ASHRAE Insights is looking for articles on examples of chapter programs to give other chapters ideas on how to engage their members. Send to [jscott@ashrae.org](mailto:jscott@ashrae.org)
- (n) A new web application from ASHRAE automates the calculations to show a building project’s compliance with ASHRAE/IES Standard 90.1-2010 using the Energy Cost Budget Method. Learn more at [901ECB.ashrae.org](http://901ECB.ashrae.org).

## 6. Sub-Committee Reports

- A. Programs: David Lee (Chair). Subcommittee meeting minutes of June 27, 2016, are attached.

No seminars at this conference, but TC 6.1 is co-sponsoring Seminar 53 Smart Equipment: the Intelligent Buildings Revolution Is Happening in the Edge with TC 1.4.

Three seminars are being proposed for Las Vegas (the deadline is August 8).

- B. Research: Tom Cappellin (Chair). Subcommittee meeting minutes of June 27, 2016, are attached.

- C. Handbook: Bob Walker (Chair). Subcommittee meeting minutes of January 26, 2016, are attached.

New collaborative tool for Handbook Chapter review will be available at [authoring.ashrae.org](http://authoring.ashrae.org). If you are a member of the TC, you will have access to the Handbook for editing.

Motion by Bob Walker, second by Don Prather to accept Chapter 22 – Pipe Design. Motion passed 7-0-2-1 CNV.

The Handbook is going to a new collaborative tool ([authoring.ashrae.org](http://authoring.ashrae.org)) for online editing of the chapters on line in a Word format.

- D. Chilled Water Sub Committee: Steve Tredinnick (Chair). The Sub-committee met on Sunday January 26, 2016.

Chair Tredinnick reported very little progress on the new chapter since the Orlando meeting. He is still looking for co-authors for the chapter. The Committee is awaiting confirmation from Handbook Liaison Forest Yount has set up the new folders in the new Online Tool for Collaborative Content Development.

E. Membership: Larry Konopacz (Chair). Chair Konopacz reminded all to update their member profiles, especially their e-mail addresses.

F. Standards: Mike O'Rourke (Chair). Chair O'Rourke was not in attendance.

Aaron Stotko ([aaron.stotko@uponor.com](mailto:aaron.stotko@uponor.com)) discussed talks of resurrecting ASHRAE Standard 152 with TC 6.1 working with TC 6.5. Contact Aaron if interested on working on this.

Frank Myers reported 90.1-2016 version is complete and expected to be available in Las Vegas with a single column format.

Frank Myers also reported SPC 155 has been voted out of committee and is going to advisory public review.

G. Professional Development (ALI).

Don Prather states there is no ALI, thus this position should be deleted.

H. Web: Jessica Mangeler (Webmaster). Webmaster Mangeler stated she is looking at using Google Analytics to track visits to our website.

## **7. Liaison Reports from other TC's and Organizations.**

Don Prather ([donald.prather@acca.org](mailto:donald.prather@acca.org)) (ACCA) reports the ACCA Radiant and Hydronics Council has a member on the west coast who prepares questions for the California Contractor Boiler Exam. If any member has a suggestion for a question, pass it along to Don for consideration.

Aaron Stotko ([aaron.stotko@uponor.com](mailto:aaron.stotko@uponor.com)) (TC 6.5) suggested possible co-sponsorship or programs between TC 6.5 and TC 6.1.

Scott Fisher (Handbook) encourages all members participate with the revisions to the Handbook Chapters. One does not need to be a member for this. The Chair stated more examples are needed in all the Handbook Chapters for participating with the Handbook. One does not have to be a voting member. \$5 M to spend on refrigerant research. The Chair more examples are needed in all the Handbook chapters.

Jason Atkisson reminded all that many new MTGs are being formed. A member can sign up for a MTG through the ASHRAE website.

## 8. Old Business:

- (a) MTG-O&MEE – Operations and Maintenance Activities. Jason Atkisson was told from the Chair of this MTG nothing has been done, no meetings have been scheduled, and no meeting was held in St. Louis. Says there will be a meeting in Las Vegas.
- (b) SPC 208 – Method of Test for Determining Hydronic System Balance Valve Capacity. Mark Hegberg was not present . Viral Dharaiya stated there is a meeting scheduled for July 15 to review the SPC.

## 9. New Business:

- (a) ASHRAE Residential Building Committee (RBC). Robert Bean ([warmfloors@shaw.ca](mailto:warmfloors@shaw.ca)) discussed new committee and its function. Asked for new members to participate. 56 Seminars on Residential at this conference. Meets on Sundays and Mondays at future meetings. If you are interested in joining this committee e-mail Robert [k9cave@gmail.com](mailto:k9cave@gmail.com).
- (b) TC Survey for ASHRAE Standards. Chair Scare reported on the survey results. 17 survey respondents feel ASHRAE should pursue new standards, 11 were uncertain, 1 said no. Chair Scare reviewed many of the suggestions. Majority of the respondents were uncertain if any standards, guidelines or MOTs should be withdrawn. All respondents gave ASHRAE products at least a good rating (4); very good (15) and excellent (9). 13 respondents report they use ASHRAE Standards, 6 use Guidelines, 4 use MOTs, 3 use ISO and 1 uses ICC codes.
- (c) Minutes for this meeting are available on the ASHRAE website. A link will be sent to the membership when they are posted.

## 10. Meeting Adjournment:

Motion by Frank Myer, second by Thomas Neill to adjourn the meeting. Motion passed 8-0-1-1 CNV. Meeting adjourned at 2:09pm.

Submitted by,  
Bob Walker.  
TC 6.1 Secretary