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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. 06.10 DATE 2/15/17

TC/TG/MTG/TRG TITLE Fuels and Combustion

DATE OF MEETING 1/31/17 LOCATION Las Vegas, NV

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Tom Neill	2015	Tom Butcher	2015	Michael Beisheim
Cory Weiss	2016	Shamel Kassab	2015	Zhiming Gao
Aykut Yilmaz	2015	George Kusterer	2014	Jonathan Kane
Diane Jakobs	2015	Larry D. Brand		Will Kowald
Larry R. Brand	2015			Tim McNulty
Mehdi M Doura	2015			Earl Rightmier
Craig Grider	2015			Steve Roberson
William Roy	2015			Harvey Sachs
Jennifer Guerrero-Ferreira	2015			Kumar Sivagnanam
Paul Sohler	2016			Junmaio Zhang

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

TAC Section Head: Mark Hegberg	SH6@ashrae.net
All Committee Liaisons: James Bochat, ALI/PDC Maggie Moninski, Chapter Tech. Transfer Chair Nicolas Lemire, 2020 Handbook Liaison Harvey Sachs, Research Liaison Cyrus Nasser, Standards Liaison	CTTC6@ashrae.net Hbs4@ashrae.net RL6@ashrae.net SL6@ashrae.net
Mike Vaughn, Manager Of Research & Technical Services	MORTS@ashrae.net

Note: These draft minutes have not been approved and not the official, approved record until approved by the TC.

ASHRAE Technical Committee 6.10

MINUTES January 31, 2017 Las Vegas, Nevada

1. Call to Order

Chair Tom Neill called the meeting to order on January 31, 2017, at approximately 3:30 pm. Participants were as follows:

Voting Members Present

Tom Neill, Chair
Larry R. Brand
Mehdi M Doura
Jennifer Guerrero-Ferreira
Craig Grider
Diane Jakobs
William Roy
Paul Sohler
Cory Weiss
Aykut Yilmaz

Voting Members Not Present

Larry D. Brand
Tom Butcher
Shamel Kassab
George M. Kusterer

Others Present

Michael Beisheim
Zhiming Gao
Jonathan Kane
Will Kowald
Tim McNulty
Earl Rightmier
Steve Roberson
Harvey Sachs
Kumar Sivagnanam
Junmaio Zhang

2. Introduction of Attendees

Members and guests introduced themselves.

3. Sign-in and Quorum Determination

Attendees were requested to sign in (attached). The quorum requirement was met with 8 of 14 voting members in attendance.

4. Review and approval of the Las Vegas Agenda

Chair Tom Neill reviewed the Agenda. The committee approved the agenda.

5. Review and approval of the St. Louis Minutes

Upon a motion by Diane Jakobs, duly seconded by Jennifer Guerrero-Ferreira, the committee voted to approve the St. Louis minutes as distributed.

These draft minutes have not been approved and are not the official, approved record until approved by this committee.

MOTION PASSED. 7-0-1.

6. Liaison Reports

A. Research (Harvey Sachs)

Harvey Sachs reported that TC 6.10 has no proposed or active research projects at this time. He provided the committee advice for writing successful Research Topic Acceptance Requests (RTARs) and work statements. He noted that he will be rolling off as liaison, and there will be a new research liaison for the committee in July.

In response to a question from a member, Sachs described the different ways that research funds can be allocated outside of ASHRAE technical committee recommendations.

7. Handbook

Mehdi Doura reported that the committee submitted handbook chapter 28 in April and it was approved; however, the chapter will be sent to the TC for final review and approval.

The next revisions for chapters 31 and 35 are due in 2020, and review has begun at the handbook subcommittee. There will be additional conference calls to go over the chapters.

8. Research

Bill Roy reported that he has drafted a work statement and RTAR on combustion oscillation for water heaters. In response to a question, he clarified that boilers could be tested if they share similar fire-tube characteristics that are the target of the proposed research. Roy agreed to distribute the RTAR to interested members.

Roy reported on updates from action items from the last meeting. Beisheim agreed to follow up with Tom Butcher on updated information from Europe on pellet storage items with respect to the research proposed at the last meeting.

9. Web Site

Jennifer Guerrero-Ferreira reported that the agendas and minutes are on the website. She also reported that she added a handbook tab and other activities to promote the activities of the technical committee. It was suggested that videos could be generated for the website by making them deliverables for future research projects.

10. Programs

Guerrero-Ferreira noted that she was volunteered for a Long Beach program exploring low-NOx requirements and technologies in California, but she would not be able to arrange a program until the Winter 2018 meeting in Chicago. The committee agreed with this approach. Roy suggested a quick status update on South Coast emissions rules, as well as national rules, CARB requirements (targets). Another member

suggested delivering a more policy-based approach on how targets are set instead of reciting rules being developed or recently published. Since all program materials are due to ASHRAE on February 6, Diane Jakobs agreed to develop a program for Long Beach on this subject to be presented to TC 6.10 only.

ACTION: Diane Jakobs to develop a presentation on low-NOx for Long Beach TC 6.10 meeting.

Sohler suggested a tour at GTI for the Chicago meeting as had been attempted in 2015. Brand noted that it would need to be done on a weekday. Sohler agreed to review who was previously contacted for approval and submit the idea again.

ACTION: Paul Sohler to request a tour of GTI facilities for Winter 2018 ASHRAE meeting.

11. Standards

Diane Jakobs reported that she was working with ANSI Z21 gas-fired appliance safety standards committees to review coverage for venting, and a group developed template requirements for safety standards. The committee discussed the work going on within AHRI to compare the venting system standard requirements.

Various members reported on the progress of several ASHRAE test methods as follows:

- Standard 103 is nearing publication.
- ASHRAE/AHRI Standard 155P has been reviewing advisory public review comments and is preparing for a publication public review by the Long Beach meeting.
- Revisions to Standard 118.1 is ready to go to publication public review.
- Public review for Standard 118.2 has been completed and the SPC is reviewing comments.
- Revisions to Standard 124 are ongoing. It was recently reaffirmed to maintain its ANSI status.

12. Membership

Chair Tom Neill reviewed the membership roster and changes effective on July 1, 2017, as follows:

No.	Member	Anniversary Date	Sub-committee
1	Cory Weiss (VM-chair)	7/2016	
2	Tom Butcher (VM-vchr)	7/2015	Program
3	Aykut Yilmaz (VM-sec)	7/2015	
4	Jennifer Guerrero (VM-web)	7/2015	Web Master
5	William Roy (VM-re)	7/2015	Research
6	Paul Sohler (VM)	7/2016	
7	Larry Brand (VM)	7/2015	
8	Mehdi M Doura (VM)	7/2015	
9	Craig Grider (VM)	7/2015	
10	Diane Jakobs (VM - stds)	7/2015	Standards
--	Michael Beisheim (CM)	--	Handbook

Current voting members Kassab, Kusterer, and Neill are rolling off the committee on July 1.

13. Old Business

Michael Beisheim and Tim McNulty presented on pressure loss factors in combustion venting and noted that there are no duct pressure loss factors for boot tee connections, which are commonly used in manifold venting. He also noted that the guidance in handbook chapter 35 on tees needs to be revisited for high velocity ducts and reference the ASHRAE general duct requirements. Beisheim agreed to draft new handbook requirements.

ACTION: Beisheim to draft a revision for handbook chapter 35.

The committee also discussed whether research would help broaden understanding of this issue. It also discussed whether commissioning guidelines are necessary. The Handbook Subcommittee was requested to consider these questions.

ACTION: The Handbook Subcommittee to consider whether additional research or guidance are needed to understand manifold venting pressure losses.

14. New Business

There was no new business.

15. Next Meeting

The next meeting will be held at the ASHRAE 2017 Annual Conference, June 24 – 28, 2017, in Long Beach, CA.

16. Adjournment

The meeting was adjourned at approximately 5:55 p.m.

Respectfully Submitted,

Aykut Yilmaz
Secretary

TC G.10
 January 31, 2017
 Las Vegas, NY

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
Venathan Kave	UE	Venathan.kave@seve.com	Guest	No
KUMAR SIVAGANANAM	NORCOLD	KSIVAGANANAM@NORCOLD.COM	CORR. MEMBER	No
Jimmiao Zhang	Intertek	Jimmiao.zhang@intertek.com	Guest	No
Steve Roberson	SPIRE	Steve.Roberson@spireenergy.com	Guest	NO
WILL KOWALD	LENNOX	Will.Kowald@lennoxind.com	CORR. MEMBER	No
CORY WEISS	FIELD CONTROLS	CWEISS@FIELDCONTROLS.COM	VM	NO