

**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. 10.7 DATE 7/25/2014

TC/TG/MTG/TRG TITLE Commercial Food and Beverage Refrigeration Equipment
DATE OF MEETING January 26, 2015 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Brian Fricke	2012	Masood Ali	2011	
Timothy Anderson	2015	Massoud Neshan	2011	
Charles Hon	2012			
David Demma	2012			
Lauren Zelinski	2015			
Cynthia Gage	2012			
Jon Murry	2015			
Caleb Nelson	2015			
Carl Roberts	2015			

DISTRIBUTION

<i>All Members of TC/TG/MTG/TRG plus the following:</i>	
TAC Section Head:	Ken Cooper
TAC Chair:	Walter Grondzik
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters:	ALI: Hugh McMillan CTTC: Gerald Hartford RAC: John Shonder STD: Cecily Grzywacz
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn

**ASHRAE TC 10.7
Commercial Food & Beverage Refrigeration Equipment
Minutes of 2015 Winter Meeting
Chicago, IL - January 26, 2015**

1. Welcome & Introductions

Chairman B. Fricke welcomed the members and guests and called the meeting to order at 2:15 pm. Members and guests introduced themselves. The Agenda was distributed, and a sign-in sheet was circulated. B. Fricke reminded everyone that the ASHRAE Code of Ethics must be adhered to by those doing ASHRAE business whether or not the participant is an ASHRAE Member. The Code of Ethics can be found at <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

2. Review and Revise Agenda

The agenda was reviewed and one item was updated in section A of the subcommittee reports as Seminar 33 will not be presented in Chicago.

3. Determination of Quorum

Quorum was established with nine (9) of eleven (11) voting members present.

4. Scope / MBO's

For the benefit of guests, B. Fricke read the TC's scope. He referred participants to the Agenda to find details of the TC's objectives.

5. Liaisons & Announcements

- Committee Liaisons were acknowledged and brief announcements were given.

6. Membership

Current Membership was reviewed. R. Sperl stated that he will be unable to chair the committee next year and chairman B. Fricke asked for volunteers to fill that position. C. Hon volunteered to chair TC 10.7 for the next term and T. Anderson volunteered to serve as Vice Chair for the same term. All other subcommittee chairs will remain the same for next year.

7. Review Draft Minutes from the 2014 Summer Meeting in Seattle WA

Minutes were reviewed and there was no discussion. Motion was made and duly seconded to approve the minutes. 8-0-1-2 CNV

8. Subcommittee reports

A. Program Subcommittee (C. Nelson, Chair)

C. Nelson reported on the discussion from the Program Subcommittee meeting. Several topics were discussed for future conference sessions. C. Roberts presented Forum 5- Supermarket Hot Gas Defrost Piping Guidelines for Best Performance, Reliability and Leak Reduction in Chicago. The seminar from refrigerant manufacturers on R-404A retrofits will be resubmitted for Atlanta as will Seminar 33. Other topics discussed for Atlanta were CO₂ Optimization in Vending Machines and HFOs in Self Contained Equipment. These program submissions are due February 9th 2015 for Atlanta. Heat reclaim was discussed as an Orlando seminar topic as well. Two additional topics were discussed in detail and voted on for future sessions. These topics were: Emerging Technology and perhaps a paper on Real World vs AHRI prediction results. Chairman B. Fricke to follow up with M. Brandemuehl on a technical paper for RP-1467. **(Action item 1)**

B. Research (S. Zha, Chair)

B. Fricke will distribute section 10 research ideas topics for review and submission of RTARs on anything TC 10.7 may be interested in. S. Zha gave an update of the TC 10.7 research subcommittee meeting.

- RP 1467 - Requires one last technical paper to receive final sign-off and funds. C. Nelson, B. Fricke and S. Zha to follow up. **(action item 2)**
- RTAR 1706 - D. Erbs resubmitted the RTAR after review from TC 10.6 for co-sponsorship
- RTAR 1722 - C. Roberts has resubmitted the RTAR.

The following new topics were discussed for development in Research Projects:

Support SSPC 72 for standard revisions and support. Explore magnitude of instrumentation and measurement between labs for testing variants. Three buckets were suggested as instruments, components, and test stand/sampling. C. Roberts and M. Stem volunteered to work on and develop an RTAR. It was suggested that CO₂ secondary case test method could also be tied into this **(action item 3)**. A forum or seminar on how to select units and measure high glide mean vs dew for sizing was suggested. Ad Hoc hasn't met regularly but has a list of new technologies that may be of interest to the committee's research.

C. Handbook (D. Demma, Chair)

The 2014 Refrigeration Handbook was just published in 2014. The lack of information on hot gas defrost, efficiency, other refrigerants and conceptual thoughts on improving efficiency were discussed. Several TC 10.7 members volunteered to assist with reviewing and identifying missing information in Chapters 15 and/or 16, including D. Demma, R. Faramarzi, J. Murray, C. Roberts, R. Sperl, D. Swofford, C. Hon, and D. Erbs **(action item 4)**.

D. Standards subcommittee (V. Baxter, Chair)

- **SPC-29** (D. Erbs)
Erbs reported that the committee sent the standard for public review and vote. The SPC hopes to have the standard out before Atlanta.
- **SPCs 32.1 and 32.2**
The members of 32.1 have been meeting monthly and will have the draft done shortly. 32.2 is short one member currently.
- **SSPC-72** (C. Hon)
SPC 72 was made into a standing committee (SSPC) for continued updates to the standard. The standard was published. J. Murry will roll on as Chair and the committee is meeting to discuss technical questions for the next revision.
- **SPC-210** (L. Zelinski)
L. Zelinski rolled on as chair for SPC 210. The title scope and purpose were submitted for approval.

ASTM has asked ASHRAE if it would consider developing a method of test for blast chillers. If ASHRAE is not interested in forming such a standards committee, ASTM will take on this task. C. Hon, S. Mitchell and V. Baxter will draft a TPS for review in Atlanta **(action item 5)**.

E. website (Kyle Larson, Webmaster)

K. Larson reported that the website is up to date and asked that if members had item to contribute that they please contact him. It was suggested that presentations and links to standard committees be posted on the TC 10.7 site.

9. Adjournment

The meeting adjourned at 3:54 pm.

TC 10.7 ACTION ITEMS

Winter Meeting 2015

ACTION #	Responsibility	Summary of Action	Status
1	B. Fricke	Follow up with M. Brandemuehl on Technical Paper	
2	C. Nelson, B. Fricke, S. Zha	RP 1467 follow up on final paper	
3	C. Roberts, M. Stem	RTAR on SSPC 72 support	
4	D. Demma, R. Faramarzi, J. Murray, C. Roberts, R. Sperl, D. Swofford, C. Hon, D. Erbs	Review and identify missing information in Handbook Chapters 15 and 16	
5	C. Hon, S. Mitchell, V. Baxter	Draft TPS for standard method of test for blast chillers	



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TC Sign-in Sheet

Meeting Info: TC 10.7 Date: 26 JAN 2015

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
BRIAN FRICKE	ORNL	FRICKEBA@ORNL.GOV	VM, CHAIR	N
CLINT FINSTAD	FBD Partnership	cfinstad@fbd-frozen.com	guest	N
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Lauren Zelinski	ATHRI	lzelinski@athri.net.org	VM, Secretary	Y
Cynthia Grage	—	cgrage@earthlink.net	VM	N
Charles Hon	True mfg.	chon@truemfg.com	VM	Y
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TIM ANDERSON	HUSSMAN CORP.	tim.anderson@hussmann.com	VM	N

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
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Ken Cooper	TAC		Section Head	
Jeff Newel	Hillphoenix	jeff.newel@hillphoenix.com	Guest	N



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TC Sign-in Sheet

Meeting Info: _____

Date: _____

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Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
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BRUCE HAMPEL	Qm Power Inc	BHAMPEL@QMPower.com	GUEST	N



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TC Sign-in Sheet

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CESAR LUIS LIMA SANCHEZ			CM	N
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Van Buxter				
Curt Larson	DuPont	Curt.Larson@dupont.com	CM	N
Daryl Stauffer	CAREL	daryl.stauffer @carel.com	Guest	N
Carl R				