

Minutes of ASHRAE Technical Committee 10.8 (Unapproved)
Refrigeration Load Calculations
Montreal, QC Canada Meeting – Hilton Montreal Bonaventure St Michel Room
June 26, 2011

- 1) Call to order by Vice Chair Don Fenton at 3:10 PM.
- 2) Self-introduction and roster sign-in.
 - a) The Chairman requested self-introduction of members, corresponding members, and guests. All present were asked to sign the roster. There were 12 in attendance, including guests. See attachment A.
- 3) Quorum call.
 - a) A quorum was not established with only 3 of 7 voting members present. Present: Fenton, Hoest, Sluga. Absent: Burdick, Kumpf (chair), Love, Mody.
- 4) Minutes from Winter Meeting (Las Vegas, NV): Minutes were not approved due to lack of quorum.
- 5) Vice Chairman's report from Section 10 breakfast.
 - a) ASHRAE is looking at review of speakers, methods to rate speakers and looking into how programs can be improved.
 - b) New York has additional requirements for PDH credits and cannot provide credits for refrigeration programs.
 - c) TC 10.9 has been absorbed into TC 10.5
 - i) TC 10.9 had a significant responsibility for the food-related chapters in the Handbook, totaling approximately 18 chapters. Typically industry experts (often not ASHRAE members were contacted to provide review of chapter specifics).
 - d) TC 10.4 is disbanding and will join TC 10.1.
 - e) TC 10.10 voted to combine with a Section 3 TC (which TC was not known)
 - f) CEC (Conferences and Expositions Committee) needs people to chair sessions.
 - g) CEC sent a liaison to the Section 10 chairs breakfast to discuss programs and invite comments from the TCs.
- 6) Subcommittee reports
 - a) Handbook—Jon Edmonds was absent. Don Fenton (also Handbook liaison) reported:
 - i) Chapter 24 was reviewed by the College of Fellows and received an excellent review.
 - b) Research (no research subcommittee chair)
 - i) 1433-RTAR—"Effect of Loss of Vapor Barrier on Insulation Performance". TC 10.5 was to resubmit. Don Fenton determined the Work Statement has not been submitted.
 - ii) 1434-RTAR—"Refrigerated Facilities Doorway Infiltration Air Energy Reduction" (TC 10.5 is sponsor, 10.8 is co-sponsor). Don determined from the ASHRAE database that the RTAR had been approved and a Work Statement was due by August 15 to RAC or this would go in the dead file. Wayne Borrowman and Dan Dettmers worked on at the last meeting.

iii) Don Fenton will follow up on 1433 and 1434.

ACTION ITEM #1. Don Fenton. Determine status of 1433-RTAR and 1434-WS.

iv) Benchmarking RTAR: Michele Friedrich agreed to complete the benchmarking RTAR. Discussion was had regarding what has been done by IARW and the challenges in completing field research and surveys. S.A. Sharif questioned if modeling was possible, in a modeling tool or with a lab scale effort. There was discussion concerning splitting benchmarking of load and equipment performance. Todd Jekel thought it was important to look at the load components until we are satisfied we are able load components such as occupancy, lights, forklifts vs. traffic; and also to work on best practices for load at a component level. Additional comments: we need to have knowledge sufficient to model before relying on modeling; anecdotal data is useless of and by itself; we need a greater understanding of load components; applies to warehouses and possibly walk-ins; might work with IARW and/or IIAR.

ACTION ITEM #2. Michele Friedrich. Coordinate development of a refrigeration load benchmarking RTAR.

v) Discussion on additional research:

(1) Discussed an RTAR to determine the economic thickness of insulation, using modeling and including inputs for thermal characteristics, weight (mass), economic (tied to oil cost?), and with a global reach. The work would include a tool kit with a spreadsheet and inputs for modeling tools. Apichit Pongpana related a Pacific Rim project using radiant cooling with monthly defrost and operation only at night. S.A. Sharif noted that analysis needed to include insulation at end of life (worst case). It was noted that TC 10.5 needed to be included and there was discussion concerning what was or was not already being done in industry.

ACTION ITEM #3. Todd Jekel. Determine status of aging of insulation work in TC 10.5.

c) Programs—Dan Dettmers

i) Requirements for a conference paper were discussed.

d) Membership—Michele Friedrich

i) Add Apichit Pongpaga as a Member.

ii) Add Robert Davis as a Member.

7) Next meeting: Sunday 3:00-5:00 January 22, 2012 in Chicago

8) Adjourned

Submitted by Doug Scott, Secretary

Attachment A

Attendance List:

Ryan Hoest	rhoest@vacomtech.com
John Sluga	jsluga@hantech.com
Don Fenton	fenton@ksu.edu
Daniel Dettmers	djdettme@wisc.edu
Todd Jekel	tbjekel@wisc.edu
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