

Minutes of ASHRAE Technical Committee 10.8 (Unapproved)
Refrigeration Load Calculations
Chicago, IL Meeting – Palmer House Hilton Salon 10
January 22, 2012

- 1) Call to order by Chair William Kumpf at 3:00 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 14 in attendance, including guests. See attachment A.
- 3) Quorum call
 - a) A quorum was established with only 4 of 7 voting members present. Present: Kumpf (chair), Fenton, Hoest, Sluga. Absent: Burdick, Love, Mody.
- 4) Minutes from Summer Meeting (Montreal QC): Minutes were unofficial due to a lack of quorum in Montreal. Minutes were accepted as written.
- 5) Minutes from previous Winter Meeting (Las Vegas): A motion to approve the minutes was made by Fenton and seconded by Hoest. Minutes were approved unanimously 4-0-0 CV.
- 6) Chairman's report from Section 10 breakfast.
 - a) CEC has seminar slots for San Antonio.
 - b) New ASHRAE brand was announced.
 - c) There was discussion regarding confirming that TCs did actually vote to approve programs.
 - d) TC voting members have four year terms, not three.
- 7) Subcommittee reports
 - a) **Standards**—Don Siller was absent. No report.
 - b) **Handbook**—Todd Jekel
 - i) Kumpf: Noted that commercial load programs stop at 50°F; need for programs that go lower. There is no source for the correction factor for sunlit surfaces. Does any program determine the actual surface temperature with solar effect? Is it important? Jekel noted it should be looked at (i.e. Chapter 24) and that an example was discussed at a previous meeting. The temperature depends on the heat rate and orientation. Kumpf questioned the "magic factor" and agreed to send out what he has at this point.

ACTION ITEM #1 Bill Kumpf: Send information regarding example on calculation for sunlit surface.

- ii) Fenton: Currently halfway through handbook cycle. Chapters can be downloaded through Handbook Central. Committee should currently be reviewing and revising. The final approved revisions are due July 2013. Jekel volunteered to get started; Scott volunteered to help.

ACTION ITEM #2 Todd Jekel: Download Chapter and send to Kumpf for distribution to committee, including corresponding members.

- c) **Membership**—Michele Friedrich
 - i) Two members roll off: Bill Kumpf and John Sluga
 - ii) New voting members to be added: Todd Jekel and S. A. Sherif

- iii) New corresponding members to be added: Tim Gwyn, Tom Wolgamot, Brian Dobbs, Antonio Huizar, Robert Davis.
- iv) The committee management team was discussed and determined for the next ASHRAE year, beginning July 1, 2012:

Chair: Don Fenton

Vice Chair: Doug Scott

Secretary: Tom Wolgamot

Research Chair: Doug Scott

Handbook Chair: Todd Jekel

Program Chair: Dan Dettmers

Membership Chair: Michele Friedrich

Webmaster: Ryan Hoest

Standards Chair: Michele Friedrich

ALI Coordinator: Dan Dettmers

Member Non Quorum: Richard Love

d) **Research** (no research subcommittee chair). Don Fenton reported.

- i) 1634-WS—"Guide for Sustainable Refrigerated Facilities and Systems" is under review.
- ii) 1602 (RTAR or WS?)—Thermal fluid behavior in flooded coils
- iii) There is a new ASHRAE Innovative Research Grant Program for riskier projects.
- iv) 1327-RP—Pressure drop in risers by TC 10.3. Status uncertain. Jekel believes work is progressing from 2" to 4" riser.
- v) 1448-RP—Ventilation in machinery rooms. There are issues with the report. REF voted to ask the TC to allow REF to review before final approval.
- vi) 1467-RP—Latent load in display cases in supermarkets by 10.7.
- vii) 1433-RTAR—"Effect of Loss of Vapor Barrier on Insulation Performance". Hoest noted that Wayne Borrowman was asking for input from Cleland. Jekel noted the project concerning pipe insulation with compromised vapor barrier.
- viii) 1434-WS—"Refrigerated Facilities Doorway Infiltration Air Energy Reduction" (TC 10.5 is sponsor, 10.8 is co-sponsor). Wayne Borrowman sent to 10.5 for review after changes dealing with concerns of scope being too broad.
- ix) Benchmarking RTAR: Discussed and determined this topic would be addressed in San Antonio. Refer to discussion and proposed action items in previous minutes.

e) **Programs**—Dan Dettmers

- i) Several program ideas were discussed, including:
 - (1) Back to basics seminar on load calculations
 - (2) Jekel: Mini conferences, with "all about refrigeration" back to basics topics from multiple TCs.
 - (3) Cleland: Forum concerning deficiencies in current load calculation methodologies, e.g. solar factors, cool roof, mass, aged and applied insulation

8) Committee Scope

“TC 10.8 is concerned with the identification and compilation of the factors contributing to, and the development of, procedures for calculating refrigeration loads.”

a) The committee scope was reviewed.

A motion was made by Don Cleland that the current committee scope should remain unchanged.

The motion was approved unanimously 4-0-0 CV.

9) Next meeting: Sunday 3:00-5:00 June 24, 2012 in San Antonio

10) Meeting adjourned

Submitted by Doug Scott, Secretary

Attachment A

Attendance List:

Name	Company	M/CM/Guest
Bill Kumpf	Campos Engineering	M
Don Fenton	Kansas State University	M
Doug Scott	VaCom Technologies	CM
Todd Jekel	Industrial Refrigeration Consortium	CM
Michele Friedrich	PECI	CM
Dan Dettmers	Industrial Refrigeration Consortium	CM
Ryan Hoest	VaCom Technologies	M
S A Sharif	University of Florida	CM
John Sluga	Hansen Technologies	M
Don Cleland	Massey University	CM
Timothy Gwyn	DC Engineering	Guest
Tom Wolgamot	DC Engineering	Guest
Brian Dobbs	VaCom Technologies	Guest
Antonio Huizar	kW Engineering	Guest