

ASHRAE TC 10.8
Refrigeration Load Calculation
2016 Annual Meeting Agenda

3:00 – 5:00 P.M.
 Sunday, January 24, 2016
 Orlando, FL

ACTION ITEMS FROM ORLANDO (WINTER) 2016 MEETING:

A.	Entire TC	Review Load Calculations chapter. See specific assignments below.	Submit comments prior to June Conference
B.	Todd Jekel, Dan Dettmers	See if Jake (intern) can handle the metric conversion of the new example in Chapter 24. Need to use standard sizes in SI. Also need to review hard versus soft conversion. Need to resolve concern about the disclaimer on the example	In progress.
C.	Doug Scott	Continue development of 1434 – doorway infiltration. Review with TC10.5 for co-sponsor.	Next draft to be sent to TC for additional review.
	Doug Scott	Review with TC1.8 the possibility of an RTAR on insulation degradation	
D.	Entire TC	Continue reviewing and refining new RTAR ideas, including topic on defrost methodologies	
E.	Dan Dettmers	Continue with TC 10.8 Program development for St. Louis and Las Vegas.	
F.			

1. Call to order at 3:06 PM. Quorum established: Don Fenton, Doug Scott, Tom Wolgamot, Dr. Richard Love, Dr. Sherif, Todd Jekel, D.R. Mody.
 A. Introduction of Members and Guests was done.

2. Meeting Minutes and General Business

A. Minutes were approved unanimously.

3. Report on Section Head Meeting from Jim Tauby, our New Section head.

A. Seminar application deadline for St. Louis is Feb 8th. There is a specific refrigeration track, so Jim would really encourage us to take advantage of this.

B. The Hightower award is available for recognition. Steve Duda handles this. Please contact him for nominations.

C. Don took the opportunity to elaborate further on the Section Head meeting. Refrigeration is at a cross-roads at ASHRAE. It has been hard to get things done. Hopefully this will be easier in the future. Refrigeration is less than 10% of HVAC, but holds a full handbook. With fewer people, this requires a higher level of diligence than most. This led to a discussion about the need to get more people participating. It was discussed that only one VM from each company is typically allowed. It was noted that getting programs approved is difficult for many TC's. Venue location may affect the program appeal, meaning in St. Louis we should do a Budweiser tour! The focus on alternate refrigerants seems to cater mostly to HVAC and commercial refrigeration.

4. Liaison Reports

A. No Liaison Reports were available as there were no Liaisons in attendance.

4. Committee Reports:

A. Handbook – Todd Jekel.

Todd sent the handbook chapter out for review to the Chapter. This is Chapter 24 – Load Calculations. The Chapter is 60 pages, and Todd has broken into sections, with the following assignments:

Product Load	Daniel Cowan
Internal Load	Doug Scott
Infiltration Air Load	Richard Love
Equipment-Related Load	Doug Scott
Safety Factor	
Total Facility Load Calculation Example	Richard Love (SI issues)

Other folks are to reply back to him with any particular item they want to review. Todd would like to mesh TC 10.5 into this as well. Todd noted to look things from a big picture perspective as well as specific detail review. Don pointed out that we don't have as much time to review this as we think we do. We need to have this done the year prior to publication (2018). It was discussed that we need to treat latent loads with more significance. Todd provided the following deadlines:

Drop dead dates: Reviewer Deadline May 15, 2016
 Revised Chapter to TC for Review May 15, 2017
 TC Vote for Approval July 31, 2017

B. Research – Doug Scott.

WS 1434 –Infiltration. This will actually be a new WS. It has been revised significantly. Doug handed out copies for review. The project will do door tests in an operating facility. Scope was limited to be only a freezer test. Doug has identified a couple of facility operators that would be willing to host this test. Possible budget could be \$300k. May be able to negotiate a donation from a door vendor, with HCR and Mycom mentioned as possible. Ultimately this will be left in the hands of the proposer. It was decided to include 2 different ambient temp/humidity conditions – something moderate, something more extreme. There was also discussion about having the tool kit be either excel-based or an executable. Doug will do some further review and send to Don for sending out to the TC. Don proposing to be wrapped up end of March, and ready to go for St. Louis.

Other - Discussed other research possibilities for insulation degradation, field study of insulation values. Doug will discuss this with 1.8. Want to review this at the next meeting.

Other - Research topic on defrost methods, comparison of loads developed including energy added to the coil and to the surrounding air, and the energy re-absorbed into the coil after restart. Possible co-sponsor with 10.1.

Other - There was a fairly large discussion on energy modeling and how this should be tackled. Loads are calculated based on peak conditions and needing a tool to evaluate overall energy usage. Need a research idea on how to pursue this.

C. Programs – Dan Dettmers not present.

Everyone wants more ice cream and beer seminars. Need to come up with interesting topics.

Upcoming Meetings are:

Las Vegas, Jan. 28-Feb. 1, 2017

Long Beach, CA – June 24-28, 2017

Chicago, IL – Jan. 20-24, 2018

Don Cleland might be interested in doing something.

Possibly do a study on low-charge ammonia and how accurate load calculations become more significant as breaking a system up into smaller packages exacerbates

oversizing conditions. Could possibly do a case study of the 36 split systems Doug is aware of.

- E. Webmaster – Ryan Hoest. Everything is up to date
- F. Membership – Don Fenton

Next meeting is Don's last meeting. Doug Scott is the incoming Chairman. Tom Wolgamot will be new V.C. A new Secretary is needed at the conclusion of June's meeting. Toby will consider this role. Don asked for cards and ASHRAE #s for anyone wanting to be a CM. Don would like two more VM. It was noted that DJ will come back on as a VM as would Toby.

- G. ALI Coordinator – Dan Dettmers. Not Present.

5. Old Business

- A. None.

6. New Business

- A. None.

7. Announcements

- A. The next meeting will be in St Louis on June 26, 2016.

8. Adjournment. Motion to adjourn made by Todd at 4:30. Motion was seconded and passed.



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TC Sign-in Sheet

Meeting Info: TC 10, 8 Date: Jan. 24, 2016

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
S.A. Sherif	University of Florida	sasherif@ufl.edu	VM	NO
D. Featon	Kansas St. U	featon@ksu.edu	chair	NO
T. Wolgamot	DC ENGINEERING	TWOLGAMOT	VM	NO
Jonah Israelit	COLDMASTERS	jonah@coldmasters.com	GUEST	NO
AKash Bhatia	Tecumseh Products	akash.bhatia@tecumseh.com	GUEST	NO
DOUG SCOTT	VACOM TECH.	DSCOTT@VACOMTECH.COM	CM	NO
DAVE MCCALL	PG+E	dimb@pge.com	Guest	NOT YET
Gabriel Jew	PG+E	gj0@pge.com	Guest	NO
DIVESH JOSHI	PG&E	D1JO@PG&E.COM	GUEST	NO
Dhiren Modiy	ERS Inc	ERSINCAZ@AOL.COM	past member of this committee	

Name	Affiliation	E-mail	Member (Voting, Corresponding, or Guest?)	YEA Member? (Yes/No)
Tobey Fowler	Hussmann Corp	tobey.fowler@hussmann.com	non-voting member	No
MATT DWYER	DWYER ENG'R	mdwyere@dwyer.com	GUEST	NO
Richard Love	Massey Uni.	r.j.love@massey.ac.nz	Vote	No
TODD JEKEL	IRC UW	todd.jekel@wisc.edu	Vote	NO
Kent Perkins	Colmac Coil	Kent.perkins@colmaccoil.com	CM	NO
DANIEL COWAN	EMCOR NEMSI	CAWAN@NEMSI.COM	GUEST WANT TO BE MEMBER	
Vishal Sharma	Oak Ridge National Lab	sharmav@gmail.com	Guest	No
Jim TAUBY	AS HRAE TAC section HD	JTAUBY@MASOV-IND.COM	GUEST	NO
Apichit Lopingpana	I.T.C. CO. LTD. BKK-THAILAND	apichit.lpana@itc-group.co.th	Vote member	No
Tom G. DAVIS	Univ Wisconsin IRC	JOHN.DAVIS@WISC.EDU	GUEST	NO