

**Minutes of ASHRAE Technical Committee 10.8 (Unapproved)**  
**Refrigeration Load Calculations**  
**New York, NY Meeting**  
**January 19, 2014**

- A. ACTION ITEM (Don Fenton): Don to schedule Seattle Sunday evening brainstorming session.
- B. ACTION ITEM (Todd Jekel, Dan Dettmers): Todd & Dan to see if Jake can handle the metric conversion of the new example in Chapter 24.
- C. ACTION ITEM (Doug Scott, Todd Jekel): Todd to review with 1.8 the status of the research project they want 10.3 to co-sponsor and see how this may impact 1433. Doug will review, summarize, and make a recommendation on how to proceed with RTAR 1433.
- D. ACTION ITEM (Doug Scott): Determine status of 1434 WS and make recommendation on how to proceed.
- E. ACTION ITEM (Doug Scott): Review new Research topics further in Seattle.
- F. ACTION ITEM (Dan Dettmers): Continue with TC 10.8 Program development for Seattle and Chicago.

- 1) Call to order by Don Fenton at 3:04 PM.
- 2) Introduction at 3:05 PM.
  - a. VMs present: Don Fenton, Todd Jekel, Tom Wolgamot, Doug Scott, Richard Love (International).
  - b. VMs not present: Ryan Hoest, S.A. Sherif, DJ Mody
  - c. Attendee list is attached below.
- 3) Minutes from previous meeting were approved unanimously by those present.
- 4) Section Head Report, Don Fenton**
  - a. The Section TC Chair meeting was held this morning. The following items were discussed:
    - i. Minutes and agendas need to be posted promptly.
    - ii. Remind people of the ASHRAE Code of Ethics
    - iii. The Hightower Award was presented to Mr. Mumford.
    - iv. An Outstanding TC Award is now available.
    - v. The Activities and Roster Spreadsheets need to be turned into to Ken by Tuesday
  - b. There will be a brainstorming research session in Seattle Sunday. ACTION ITEM: Don to schedule this brainstorming session.
- 5) RAC Liason Report - John Shonder**
  - a. 1634 TRP - Guide for Sustainable Refrigerated Facilities and Refrigeration Systems is waiting on the Massey/Wisconsin agreement to be finalized.
  - b. The PMS meeting follows this meeting. Tentatively moving the PMS meeting to Monday night for Seattle
- 6) Handbook – Don Fenton**
  - a. Chapter was 24 was updated. Don expressed his gratitude for everyone's efforts and contributions.

- b. Don talked to Heather about converting the chapter to SI. She said it was OK to go ahead with the IP version, and leave the new example out of the SI version. Todd and Dan thought they might be able to have an intern tackle this. End of February is the deadline. They will try to get this done, but will fallback to not having in the SI version.  
**ACTION ITEM:** Todd & Dan to see if Jake can handle the metric conversion.

## **7) Research – Doug Scott**

- a. 1433 – RTAR “*Effect of loss of vapor barrier on insulation performance*”. This is ready to be turned into a work statement. It was clarified this is not piping insulation. A question was asked about including Forklift damage, and if it makes sense to repair. This research idea was started by Don Cleland. Todd noted that TC1.8 Mechanical Systems Insulation has an RTAR they want 10.3 to co-sponsor. This may impact 1433.  
**ACTION ITEM:** Todd will review with 1.8. Doug will review, summarize, and make a recommendation on how to proceed concerning RTAR 1433 for Seattle.
- b. It was noted that in TC 10.3 there is a dispute about the insulation values which are available. This could be a research project on actual values available. Todd indicated best person to talk on this is Jim Young.
- c. 1434 WS – “*Refrigerated Facilities Doorway Infiltration Air Energy Reduction*” TC 10.5 is sponsor, 10.8 is co-sponsor. Doug Scott thought it is too complicated. RAC thought it was too expensive. Doug Scott to check on the status at the Research breakfast. Wayne Borrowman & Ryan Hoest were working on updating Work Statement 1434. Doug did not receive these updates. It was questioned whether a facility needs to be identified first that would be used in the research, or if the bidders need to identify the facility. This will impact logistical expenses. Dan suggested we identify a potential site, but allow the bidders to propose an alternate facility. Strip curtains, high speed doors, and air curtains are all possibilities to include.  
**ACTION ITEM (Doug Scott):** Determine status of 1434 WS and make recommendation on how to proceed.
- d. Doug reviewed possible Research ideas:
  - i. What do conveyors do? How do they operate, and is it that big of a load?
  - ii. Process loads?
  - iii. VFD impact on motors and systems
  - iv. Cooking loads and exhaust loads
  - v. Equipment loads
  - vi. Infiltration and ventilation loads are major items
  - vii. Optimal insulation (co-sponsor with 10.5)

**ACTION ITEM (Doug Scott):** Review Research topics further in Seattle.

## **8) Program – Dan Dettmers**

- a. Dan Dettmers wants to put together a lighting study for Seattle meeting. The industry is now moving to LEDs. What are the effective lighting loads now? LPD and diversity have changed significantly. Presentation topics could include Historic lighting levels/loads,

LED loads, and end-user experiences. Doug suggested Chris Hines would be a possibility. Doug will get a list of possible vendors and projects in Seattle to Dan.

- b. For Chicago a possible idea for a program was discussed: *Panel discussion: "Loads in a Refrigerated Structure"* This should include the impacts of infiltration/ventilation (Todd Jekel), equipment/lighting/product (Doug Scott), and transmission (Dan Dettmers).
- c. A workshop on general loads was suggested for Chicago. Do short presentations, then break into groups, have them run calculations, determine what components are most significant.

ACTION ITEM (Dan Dettmers): Continue with TC 10.8 Program development.

**9) Webmaster – Ryan Hoest (absent, presented by Don)**

- a. Web is up to date.

**10) Membership**

- a. There was a general discussion about trying to gain more members.
- b. Don will extend as Chairman for one more year.
- c. DJ Mody will be made a Corresponding Member.
- d. The rest stand as current.

**11) AIL Coordinator - Dan Dettmers**

- a. Dan will be attending the AIL meeting tomorrow.

**12) New Business**

- a. ASHRAE Commissioning Guide for Commercial and Industrial Systems has been released.
- b. Next Meeting in Seattle.

13) Meeting was motioned & seconded for adjournment at 4:42 PM.

Submitted by Tom Wolgamot, Secretary

TC 10.8

1/19/2014 3:00 pm

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