



ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.

1791 Tullie Circle, NE • Atlanta, Georgia 30329-2305 ☎ 404-636-8400 • Fax 404-321-5478

Todd B. Jekel, P.E.
Chairman - TC 10.3

Reply to my attention at:

Industrial Refrigeration Consortium
1415 Engineering Dr, Rm 2350
Madison, WI 53706
Phone: (608) 265-3008
Fax: (608) 262-6209
e-mail: tbjekel@wisc.edu

Date: June 26, 2007

To: ASHRAE TC10.3 Refrigerant Piping
Subject: ASHRAE TC 10.3 Meeting, Tuesday, June 26, 2007, 1:00 - 3:30 PM

Minutes:

I. Preliminaries

Call to order: Chair called the meeting to order at 1:00 pm.

Established quorum with 6 of 10 voting members (**bold** indicates presence): K.

Anderson, B. Burdick, **K. Collier**, J. Edmonds, **D. Halsey**, **T. Jekel**, **G. Struder**, **J. Topliss**, J. Shepherd, **D. Siller**

Introductions

Sign Attendance Sheet

Additions or changes to agenda

Add discussion of co-sponsorship of WS-1403 with TG10 MOC under VIII Research.

Add discussion of PES members to TRP-1356 with TC 1.8 under VIII Research.

II. Approval of Dallas Minutes

Gordon Struder recommended the following correction: change B315 to B31.5 within minutes, remove "non-fewer" sentence from Refrigeration liaison report, add discussion of adding Jim Shepherd & Jim Young to PES under Research. Motion for approval with discussed changes by Don Siller, seconded by Gordon Struder. Vote: 5-0-0.

III. Review of Section 10 Section Meeting Items [Todd Jekel]

Created two (2) MBOs for TC10.3: 1) sponsor a program within the next year, and 2) submit at least one new RTAR. Todd Jekel will communicate the MBOs to our liaison.

IV. ASHRAE Liaison Reports

Refrigeration [John Sluga] – Both the Milt Garland & Comfort Cooling awards were not awarded again this year due to lack of submission. Size constraint on Comfort Cooling award has

been eliminated. Handbook suggestions from high level non-ASHRAE review: add overview/introduction chapter, add CO₂ chapter, add safety considerations to chapters or create a new chapter. Two hour webinar on introduction to refrigeration, asked for interested presenters to contact Doug Reindl or Don Cleland.

V. Membership [Don Siller]

Don Siller rolls-off as a voting member. Charles Cottrell & John Sluga move from Corresponding to Voting members for the next meeting. Brings the total committee membership to 11.

VI. Handbook [John Topliss]

Question pertaining to Table 21 in Chapter 2 of the 2006 Refrigeration Handbook. John will contact Jon Edmonds, review and respond to Mark Owen and the commenter. Framework for CO₂ chapter is complete and a working group has been established.

John has a large amount of information collected from various sources. The new chapter needs to be finished within the next calendar year.

All changes in the current chapters need to be done within the next 13 months.

Lane Loyko offered to incorporate the results of RP-970 into the chapter.

Handbook subcommittee consists of Dennis Halsey, Ken Collier, Jon Edmonds, John Sluga, Mike Resetar, Chris Crall, Don Siller, Paul Solberg, & Jim Young.

VII. Standards

No report. Chair requested that Gordon Struder contact Kent Anderson to establish a liaison relationship between TC 10.3 and the ASME B31.5 committee.

VIII. Research [Todd Jekel]

Status of 1327-TRP [Doug Reindl]

PMS met on Sunday at 8:00 am with contractor (Danish Tech Institute, PI Thomas Lund). Rig is designed, awaiting construction, expect first data by next meeting.

Status of RP-970 [Lane Lloyko]

Final report was submitted prior to the meeting, reviewed by the PMS, the PMS met via conference call today at 9:00 am and recommends the acceptance of the report with minor editorial changes. Motion to approve the final report contingent on the incorporation of the PMS's minor changes. Moved by Don Siller, seconded by John Topliss. Vote: 6-0-0:

Todd Jekel created a draft RTAR on CFD analysis of liquid/vapor separation co-sponsored by TC10.1. Todd will distribute to the subcommittee for comment.

Todd recommended that TC10.1 be the sponsoring and TC10.3 be the co-sponsoring committee.s

Todd Jekel asked Kirsten McNeil to send him draft RTAR on low-temperature piping requirements by B31.5.

Discussion of co-sponsorship of WS-1403 *Quantification and Mechanisms of Oil Hold-Up in Horizontal and Vertical Suction Lines with Immiscible and Miscible Oils* with TG10 MOC Immiscible Oil-Refrigerant Systems. Committee felt that the results would not be useful because it would only be for 410a and 134a in the range of -4 to +104°F. Motion to not co-sponsor project. Moved by Dennis Halsey, seconded by Ken Collier. Vote: 6-0-0.

Discussion of adding TC10.3 member to PES for TRP-1356 *Methodology to Measure Thermal Performance of Pipe Insulation at Below-Ambient Temperatures*. The workstatement is conditionally approved by RAC with addition of some testing. Workstatement authors will be meeting with RAC liaison to hammer out the requirements. Motion to add Jim Young & Todd Jekel to the PES. Moved by Todd Jekel, seconded by Ken Collier. Vote: 5-0-1.

Research Subcommittee consists of Todd Jekel, Gordon Struder, Don Siller, Ken Collier, Kent Anderson, Jim Shepherd, Doug Reindl, Jim Young, Wayne Borrowman, Kirsten McNeil, & Paul Solberg.

IX. Programs

Program Subcommittee consists of John Sluga, Bob Burdick, Ajay Chatlani & Doug Reindl.

1. New York Seminar (1-hour):

John Sluga agreed to chair session with assistance from Todd Jekel.

- B31.5 requirements for low-temp piping, *Rich Merrill*
- Stainless Steel Refrigeration Piping, *Lars Mathesin, Russ Perry, or Marty Timm*

2. Salt Lake Seminar possibility

- Design Criteria for Refrigerant Piping Insulation, *Jim Young*
- Pipe Preparation Considerations for Refrigerant Piping
- Alternative Methods for Condensation Control, *Ajay Chatlani (contributor)*

X. WEB-Site [Todd Jekel]

Todd Jekel reported that website is updated and a password protected area has been created. Todd will add handbook chapters & roster to the password protected area and send out an e-mail that includes the login & password information to committee members & corresponding members.

XI. Old Business:

Status of establishing G. Struder as a liaison with ASME B31.5 was covered under the Standards report.

XII. New Business:

None.

XIII. Next meeting – New York, New York, Tuesday, January 26, 2008

XIV. Adjourn

Motion to adjourn. Moved by Gordon Struder, seconded by Dennis Halsey. Vote: 6-0-0.

DRAFT