

Minutes for TC 10.3
Meeting in Dallas, TX on 1/30/07

I. Preliminaries

The meeting began with TC member's tributes to Mr. Ronald Cole. The TC recognized Mr. Cole's contributions to industry and ASHRAE.

Call to order - 1:05 PM

The Chairman announced the following are voting members:

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

The Chairman added the following item was added to the agenda:

Discuss work statement 1403 from Mr. Seeton

Establish quorum – The Chairman verified a quorum was present

Introductions – The meeting participants were introduced.

Attendance sheet – An attendance sheet was circulated.

II. Approval of Quebec Meeting Minutes

The TC members made corrections to the draft minutes. Mr. Cottrell will revise the minutes as noted.

MM: Mr. Jekel

MS: Mr. Shepherd

MC: 10-0-0

III. Review of Section 10 Section Meeting Items

TC 10.10 is conducting research on miscible and nonmiscible oils to update the Jacobs tables. The RTAR has been approved and the work statement is pending.

TC 10.3 will cosponsor the research project.

MM: Mr. Anderson

MS: Mr. Shepherd

MC: 10-0-0

Mr. Halsey agreed to try to find a volunteer to join the PMC.

IV. ASHRAE Liaison Reports

Research – Mr. Penar reported the Research Committee received only 4 RTARS.

Programs – Seminar speakers will get a 1 day registration, program chairs nothing and symposia authors will receive full registrations. The theme of the Long Beach meeting will be "Natural Ventilation" and New York will be "Zero Energy Buildings."

Awards – No G. B. Hightower nominees were submitted and the criteria were revised to consider the last 3 years of volunteer service and 3 nominees for the Milt Garland award were being discussed. The Committee was encouraged to nominate person for those awards. There were no submission for Comfort Cooling.

For both Awards the submission form will be increased from 6 to 10 pages to allow for better clarification of project.

A new award proposal was considered entitled the "George Briley award" for best journal refrigeration article

Refrigeration – Mr. Sluga reported The position document on natural refrigerants was approved.

Independent focus group to review "REF" Handbook for overall constructive review.

A recommendation for natural refrigerant to be considered for new HQ building resulted in several questions which were responded to. No further info or decision has been made

The position document for "Natural Refrigerants" was approved.

V. Membership

Mr. Siller reported that after this meeting the following changes to the roster will take effect:

Vice Chair – Mr. Siller
Secretary – Mr. Anderson
Handbook – Mr. Topliss
Standards – Mr. Sluga
Programs – Mr. Sluga
Research – Mr. Jekel
ALI Coordination – Mr. Reindl
Membership – Mr. Siller

Messrs. Cottrell and Sluga will become voting members effective at the next meeting.

VI. Handbook – No Report

The TC discussed the fact that no action had been taken on the CO₂ Chapter.

Mr. Topliss agreed to provide an outline for the chapter on "natural refrigeration." Mr. Anderson reported an ad hoc group was working on the CO₂ issue and a focus group will meet in the spring to discuss CO₂ chapter and he will contact Mr. Pearson for details. The lead person for the ad hoc group is Mr. Harriman and Mr. Reindl will contact him for an update and report back to this TC.

Mr. Jekel recommended starting work on the electronic chapters for the CD in the near future.

VII. Standards – No Report

Mr. Anderson reported that ASME B31.5 is considering a liaison between them and TC 10.3 and recommends the TC consider nominating a liaison the ASME B31.5.

TC 10.3 will contact ASME B31.5 and ask that Mr. Struder be approved as the liaison.

MM: Mr. Anderson

MS: Mr. Siller

MC: 10-0-0

VIII. Research

Mr. Jekel reported on the status of 1327-TRP. Doug Reindl gave a report from the proposal evaluation subcommittee that outlined the chosen contractor and project details. The TC recommended making the current PES the PMS and add Mr. Struder.

Mr. Loyko reported on the RP-970 final report. Mr. Loyko will forward the final report to the TC. Mr. Anderson recommended having the Executive Summary drafted by the TC members.

Regarding TRP 1356 *Methodology to Measure Thermal Performance of Pipe Insulation at Below-Ambient Temperatures* that the TC voted to co-sponsor in Quebec City. Discussed adding Jim Shepherd & Jim Young to the PES.

The following research ideas were discussed by the TC:

- Design for condensation control of cold piping in wash down areas
- Methodologies for in-situ determination of insulation values
- Piping design for CO₂
- Weld & brazing procedures for high pressure refrigerants
- Economic pipe sizing methodology
- (b) Line sizing for new refrigerants with oil
- (a) Low temperature (-20°F) limitation on impact testing of carbon steel pipe. The TC agreed to add this to the long range plan and Mr. Anderson will circulate the research concept from ASME B31.5.
- (c) Thermal expansion methods for suction lines with seismic constraints
- Pressure drop of refrigerant gases
- Thermal expansion of connections.

IX. Programs

The TC discussed the following program ideas:

1. Low-temperature Refrigerant Piping Practices, *Todd Jekel*
2. Stainless- vs. carbon-steel piping for low-temperature refrigeration piping systems
3. Pipe preparation for carbon-steel piping (SSPC, other), *SSPC?*
4. Insulation systems, *Jim Young, Dow*
5. Pipe design for low-temperature (B31.5) *Don Faust, Gartner Refrigeration*

Additional Ideas:

SSC in piping
Design of piping for mechanical integrity testing
Case studies on MI failures

X. WEB-Site

Mr. Jekel reported the minutes & agenda will now be distributed through website.

XI. Old Business – No old business was discussed.

XII. New Business - No new business was discussed.

XIII. Next meeting – Long Beach, Tuesday, June 26, 2007

XIV. Adjourn

Motion to adjourn.
MM: Mr. Topliss
MS: Mr. Struder
MC: 9-0-0

Respectfully submitted,

Charles C. Cottrell
TC 10.3 Secretary