

TC 1.2 Instruments and Measurements
Meeting Minutes
Denver, Colorado – June 28, 2005

These **draft** minutes have not been approved and are not the official, approved record until approved by this committee.

- I. Meeting called to order at 1:08 p.m. by Vice Chairman, John Scott. John served as chairman because the current chairman, Jim Clarke could not attend the meeting.
- II. John Scott reviewed the agenda items for the meeting.
- III. Frank Spevak identified several corrections to the Orlando minutes including the amendment of the Standards Report.
- IV. Frank Spevak moved that the committee accept the minutes of the Orlando meeting with corrections and amendment. David Yuill seconded. The minutes were approved 5-0-0-3.
- V. Liaison Reports

Donald Bivens, Standards Liaison, attended to participate in the discussion of the standards report (see Section IX).
- VI. Section Head Report: David Yuill

The President of ASHRAE will send thank you letters to the managers of members who desire them.

The TC/TG activity form must be submitted by the TC chairman by the end of the meeting.

The term of the TC committee chairman may be extended for two years when it is needed to accomplish the committee's mission.

ASHRAE has hired Technical Trainers at the Denver and Chicago meetings to teach TC webmasters how to set up and maintain committee websites.

TC Management by Objective
 - Keep website current.
 - Cosponsor technical sessions
 - Submit minutes within 60 days with distribution to liaisons
 - Submit nominations for Hightower Award by September
 - Submit nominations for Technical Achievement Award (see Action Item List).
There is a procedure to officially object to material presented in a seminar.

The incoming TC chair should attend the TC?TG training meeting.

Submit meeting request form for committee and subcommittee meeting changes.

Suggested technical program improvements:
 - Shorter technical sessions
 - Shorter presentations
 - No technical sessions on Wednesday (some TC opposition to this).
 - Symposium chair person isn't required to pick technical paper reviewers but can.

Reviewers are requested for the book, HVAC Simplified by Steve Cavanaugh. Reviewers may review the entire book or specific chapters.

VII. Handbook

No handbook report due to Terry Beck's absence.

VIII. Research: Frank Spevak

Frank Spevak reported on Monday's Research subcommittee meeting.

A draft of the Strategic Plan for ASHRAE research is posted on the ASHRAE website. Specific items include:

All work statements must reference goals listed in the various research categories. Under the new program "Does this project support ASHRAE's research goals is weighted at 45%.

Acceptance Criteria for RTARs are included.

Project 1245 - *Determine the Effect of Duct Fittings on Air Velocity Measurements.*

Kansas State University was requested to take some measurements with field grade instruments. KSU accepted project with exception due to increased cost.

Committee met with researcher and discussed research plan. Construction started in the winter of 2005 with data collection in the summer of 2005.

Technical presentations of research findings will be made at ASHRAE meetings for the next two years.

Priority 1 – RTAR/WS 1350 - Measurement of Air Exchange Rates in Occupied Homes

Frank Spevak stated that Arsen Melikov and others submitted the RTAR and it has been approved and accepted with the following comments from Research.

1. Reference is needed for the PFT method.
2. Not clear why tracer gas tests are inappropriate.
3. Needs an expanded and more quantitative objective.
4. Needs feedback link and buy-in from SSPC 62.2. Show this as one application of the results.
5. It is not completely clear from RTAR what research is needed.

After a lengthy discussion by several committee members, it was decided that:

1. The work statement should state what work has been done.
2. SSPC 62.2 should sponsor this research and TC1.2 and TC5.2 could cosponsor it.

RTAR for possible cosponsorship with TC1.4: *Accuracy of Relative Humidity Sensor in Economizers*

David Yuill stated that Jeff Sheen of NIST submitted this RTAR.

Frank Spevak stated that TC1.2 could cosponsor this research.

John Scott asked if this is similar to the Iowa Energy Center work presented in the Denver Poster Session.

Todd Hardwick stated that additional research is not needed on this topic.

Frank stated that he will report committee comments to submitter.

Work Statement for possible cosponsorship with TC1.4: *Stability and Accuracy of VAV Box Control at Low Flows*

Frank Spevak stated that this is a Test and Balance research area and not one that TC1.2 should sponsor. John Scott agreed.

Frank stated that he will report committee comments to submitter.

IX. Presentation / Discussion of Formation of Standing Standards Projectr Committee for 41 Series Standards (SSPC 41) - Jim Douglas

Jim Douglas discussed the Standards Report (see Attachment 1). He made a motion to establish a SSPC41 committee to give consistent support to the 41 Series standards with a standing committee formed of membership from TC1.2, TC1.1 and TC8.1 along with outside expertise when qualified individuals are found. Frank Spevak seconded the motion. The motion was approved 5-0-0-3.

X. Standards: Jim Douglas

Jim Douglas discussed Standards 41.1, 41.4, 41.7 and 41.8 and introduced a motion to reaffirm these standards and Frank Spevak seconded the motion. The motion was approved 5-0-0-3.

Jim discussed the first meeting of the Standard 41.1 subcommittee (see Attachment 1). Jim suggested that the standards subcommittees (formerly committees) should start (or continue) to work on revisions to the assigned standards (standards included are: 41.1, 41.2, 41.3, 41.4, 41.7 and 41.8).

Todd Hardwick suggested that the forward of Standard 41.4 be revised to clearly define the refrigerants covered by the standard.

Jim reported that Guideline 2 has been published.

XI. Programs: Stephen Idem

- I. "State of the Art in Air Contaminant Measurements"
Steve Idem reported on this symposium which was presented on Sunday.
- J. "What are the Problems with Humidity Sensors?"
Steve recommended that this program be dropped.
- K. "Validation of Instruments in Building Automation Systems"
This program is inactive.
- L. "Chemical/Biological Sensors and Their Application"
This program is inactive.
- M. "Method of test for rating of capture hoods" TC 7.7 program.

Steve Idem stated that we have no future programs planned.

John Scott asked if a forum should be held to discuss the need of a standard for humidity sensors.

XII. Membership

John Scott reported that there are no membership changes to report.

Steve Idem stated that he will contact inactive members about remaining as corresponding members.

XIII. Website

Frank Spevak stated that will set up the TC 1.2 website.

XIV. New/Unfinished Business

None.

XV. Adjourn Meeting

Jim Douglas moved that the meeting be adjourned, Frank Spevak seconded, and the motion was approved 5-0-0-3. The meeting adjourned at 3:29 p.m.

Attendees:

Ilka Berrios
Rick Hall
Jim Lutz
John Scott
Charles Wright

Donald Bivens
Todd Hardwick
Ron Moncrief
Robert Sommer
David Yuill

James Douglas
Steve Idem
Jose Perez-Galindo
Frank Spevak

Attachment 1

TC 1.2 Standards Report—Denver Summer Meeting (June 28, 2005)

A meeting was held after the PC Chair meeting on Sunday, June 26, with Don Bivens and Mark Weber to discuss the difficulty in getting adequate membership to properly review the 41 series standards. The outcome of the meeting was to have TC1.2 vote to establish a SSPC41 committee to give consist support to the standards with a standing committee formed of membership from TC1.2, TC1.1, and TC 8.1 along with outside expertise when qualified individuals are found. This committee would maintain the standards and when review is required, will request the cognizant TC to review the document for re-affirmation or rewrite it.

If

the cognizant TC requests a rewrite, the committee will create a subcommittee

to review, rewrite, and resubmit the document to the SSPC41 committee for processing. If the cognizant TC recommends a reaffirmation the SSPC41 will review the reaffirmation, approve, and process the reaffirmation.

This method will allow the subcommittees to work with less membership and reduce the paperwork involved since the standing committee will be responsible for the MOP rules of balance and conflict of interest.

TC1.2 will start this process by voting on the formation of SSPC41 which will begin the process by including the 41.1, 41.2 41.3, 41.4, 41.7, and 41.8 standards. TC8.1 will vote on joining this SSPC41 at the Chicago meeting to add 41.9, 41.10. TC1.1 will do the same for 41.6.

It was also agreed that TC1.2 will vote on reaffirmation of standard 41.1, 41.4, and 41.7 since these standards will expire and the ANSI approval will be lost. Subcommittees will continue to work on the standards and when approved a new release will be issued.

A. Standard 41.1: Standard Method for Temperature Measurement (1986)

- 1) Standard was voted to be revised
- 2) Committee Members:
 - a. Charlie Wright: SSPC Chairman
 - b. Terry Beck
 - c. Jim Douglas
 - d. Steve Idem
 - e. Jim Clark
- 3) New Members: No new members as this meeting
- 4) Status:

Committee had a formal meeting on Monday, June 27.
Standard was discussed and Charlie will assign sections to be worked on by the membership.

- B. Standard 41.2: Standard Methods for Laboratory Air Flow Measurement
 - 1) Standard was voted to be revised
 - 2) Committee Members:
 - a. Terry Beck: SPC Chairman
 - b. Charlie Wright
 - c. Jose Perez
 - 3) New Members: Need at least (2) two more members to begin work
 - 4) Status:
Still need at least (2) two more members on the committee before ASHRAE will process the committee (minimum of 5)

- C. Standard 41.3: Standard Method of Pressure Measurements (1989R)
 - 1) Standard was voted to be revised
 - 2) Committee Members:
 - a. Frank Spevak: SPC Chairman
 - b. Jim Clarke
 - c. Ron Moncrief
 - d. John Clark
 - e. David Yuill
 - 3) New Members:
Committee has enough members to apply for ASHRAE formation
 - 4) Status: Frank promised a rough draft by summer

- D. Standard 41.4: Standard Method Measurement of Proportion of Lubricant in Refrigerant (1996)
 - 1) Standard was voted to be reviewed.
 - 2) Committee Members:
 - a. Jim Douglas: SPC Chairman
 - b. Dr. Richard Cavestri (Imagination Resources)
 - c. Kaoru Matsumotot (Cognis Oil)
 - d. Mark Kedzierski (NIST)
 - e. Thomas Leck (Dupont)
 - 3) New Members:
Committee will welcome any more new members. Some members still need to file the biographical forms to serve pending ASHRAE acceptance.
 - 4) Status:
Committee had a formal meeting on Monday, June 27, with all members present. The standard was given out and the scope reviewed. Work assignments were given out and it is optimistic that a rough draft will be ready for review at the Chicago meeting to present for public review.

- E. Standard 41.7: Method of Test for Measurement of flow of Gas (RA2000)
- 1) Standard was re-affirmed in 2000 and will be due for review in 2005.
 - 2) ASHRAE Standards Committee reviewed this standard to determine what it is lacking for the next review; this was submitted as a recommendation for change.
 - 3) The TC reviewed the commendations submitted and voted to form a committee to make changes to the stand and re-submit to ASHRAE for publication. John Scott will get membership and file to ASHRAE for formation. This was tabled to the summer meeting in Denver.
- F. Standard 41.8: Method of Test for Measurement of Liquid in Pipes Using an orifice
- 1) Standard was voted to be revised
 - 2) Committee members:
 - a. John Scott: SPC chairman
 - b. Charlie Wright
 - c. Steve Idem
 - d. Open
 - e. Open
 - 3) New Members:
Committee needs two more members to form the (5) required number to serve pending ASHRAE Biography acceptance. (Need two due to a conflict with two members representing the same company)
 - 4) Status:
Committee hasn't enough members to begin work on the standard but an Ad hoc committee will review the need for the standard with John Scott acting as chairman. Jim Clarke will contact Mark Weber by e-mail to request John Scott as a formal chairman for the committee. No progress was made since last meeting.
- G. Guideline 2: (1986)
- 1) Guideline was voted to be reviewed
 - 2) Committee Chairman: Chad Dorgan
 - 3) Status: 1st Public review is finished. Group is in process of responding to the questions raised from the public review. A 2nd Public review will be issued and a finalized revision will be submitted to ASHRAE for final approval and publication by next meeting in Orlando (February).
 - 4) Chad will be quizzed as to knowledge on past standard practices.

It was noted that a request was made to ASHRAE Standards to receive an electronic copy of each of the 41 series standards and the Biographical/Conflict of Interest forms to distribute to each of the committee chairpersons to facilitate obtaining new members to serve. These will be distributed as soon as they are received. The forms were received but no electronic copies of the 41 series standards were received.