

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

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TC/TG/TRG MINUTES COVER SHEET

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/TRG NO.: TC 4.3 DATE: Feb 04, 2000

TC/TG/TRG TITLE: Ventilation Requirements and Infiltration

DATE OF MEETING: June 21, 1999 LOCATION: Seattle, Washington State Convention Center, Room 309

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Alex Boome Bernado Cardenal John E. Janssen Art Mclvor Michael Ratcliff Brian Rock – Chairman Steve Taylor Iain Walker Theresa Weston Craig Wray – Vice Chair Gren Yuill		Safir Adeni - Secretary Martin Liddament (IM) Ron Petersen Dipak Shah		John Carter Ken Cooper Paul Francisco Dwight Heberer Joseph Lstiburek Mario Medina Mark Modera Gary Nelson James Reardon Max Sherman Carl Speich John Talbott Bruce Wilcox Jianshun Zhang

DISTRIBUTION:

ALL MEMBERS OF TC/TG/TRG

TAC SECTION HEAD: Byron W. Jones

ALL COMMITTEE LIAISONS AS SHOWN ON TC/TG/TRG ROSTERS:

Dennis L. O'Neal - TAC Chairman

Carl F. Speich - RAC Liaison

David E. Knebel - Standards Liaison

Emil E. Friberg - Programs Liaison

Brian Rock – 2001 Fundamentals Handbook Liaison

Ken Cooper – 2003 Applications Handbook Liaison

William J. Fisk - Env. Health Committee Liaison

Steven T. Taylor - ASHRAE Journal Liaison

ADDITIONAL DISTRIBUTION:

Claire B. Ramspeck - ASHRAE Standards

Bill Seaton - ASHRAE Research

Submitted

Safir Adeni

By:

Safir Adeni

ASHRAE TC 4.3: VENTILATION REQUIREMENTS & INFILTRATION

Washington State Convention Center, Room 309, Seattle, Washington

Meeting called to order at 4:15 PM despite a lack of quorum.

1. Introductions. Regrets by Secretary - Safir Adeni. James Reardon volunteered to take notes for the minutes.
2. Review of agenda and minutes of the last meeting. Consensus agreement to delay matters requiring official votes until more Voting Members arrive.

3. Announcements:

Chairman Brian Rock made the following announcements:

- Craig Wray has moved to Lawrence Berkeley National Laboratory, which leaves two voting members from LBNL on the TC - Iain Walker and Craig Wray. ISW agreed to abstain from any official voting at this meeting.
- The TC's website, maintained by Brian Rock has moved to a new server at the University of Kansas. The new website address is:
<http://hvac.arce.ukans.edu/ashrae/tc4.03/main.htm>
- News from the Section 4 breakfast meeting: List of topics for Journal issues for the coming year were presented; the Journal is always looking for authors of articles; ASHRAE has established a new achievement award - details to follow.

Ken Cooper introduced himself as the Handbook Liaison for the 2003 Applications volume.

An Ad Hoc committee SPO 3.2 on Building Energy & Environment has been created. Mario Medina volunteered to serve as the TC 4.3 liaison to SPO 3.2

4. Subcommittee Reports

(a) Research (C.P. Wray)

Announcements: A new process called RTARS has been proposed at RAC, but it is not officially implemented yet. Research projects 805, 806 and 763 have been completed. ASHRAE seems reluctant to publish the results of RP-806 as a special publication (due to its small size) "Design Criteria for Building Ventilation Air Inlets". The Technical Paper from RP-763 has been submitted and is undergoing peer review.

Research Plan: The priorities of the projects listed on the research plan were revised as follows:

1. The effect of ganging on pollutant dispersion from building exhaust stacks. (was No.1) Mike Ratcliff working on revisions to WS.
2. Exhaust contamination of hidden vs. visible air intakes. (was No.3) Iain Walker to prepare WS, which has been reviewed by Carl Speich, RAC Liaison. California Energy Commission interested in co-sponsoring.

3. Heat transfer during residential infiltration/exfiltration. (was No.2) Iain Walker to prepare WS.
4. Occupant and building factors for determining ventilation rates. (A new work statement to be prepared by Steve Taylor dealing with needs from SSPC 62.) Steve Taylor to prepare WS.
5. Characterization of infiltration and ventilation in multifamily buildings. (was No.6) Jim Reardon/Craig Wray to prepare WS - no progress.
6. Odor threshold dilution ratio for commercial kitchen exhaust. (was No.9) TC5.10 needs this work done. John Carter preparing WS.
7. Toolkit - Simplified procedure for calculating exhaust/intake separation distances. (New - needed for SSPC 62) Steve Taylor, and maybe David Wilson, to prepare WS.
8. Multiple space effects on ventilation system efficiency. (was No.8) Steve Taylor to prepare WS.
9. Air ventilation, air leakage, and IAQ in elementary schools. (was No.5) Steve Taylor to prepare WS. No progress. California Energy Commission interested in co-sponsoring.

The following are the recommendations of the Research Subcommittee regarding the Work Statements in progress:

1. Recommended that the Work Statement "The effect of ganging on pollutant dispersion from building exhaust stacks", as revised by Mike Ratcliff, be accepted by the TC with two edits, to be reviewed and approved by CPW and then forwarded to Bill Seaton. (Vote: 6-0-1-1, approved.)

3. Recommended that Work Statement "Heat transfer during residential infiltration/exfiltration" with two additional edits - refine scope definitions and expand the title word "hidden" in the first sentence, be accepted by the TC, to be reviewed by CPW and forwarded to Bill Seaton. (Vote: 6-0-1-1, approved.)

The TC approved the new research plan and priorities. (Vote: 6-0-1-1)

(b) Program (T. Weston)

Program status handouts were distributed. Suggestions for a follow-up on the Divine study(?) as a useful program item. Also suggestions for more forum sessions focussed on issues arising from SSPC 62.

On the program for the Winter 2000 Meeting in Dallas:

1. Symposium session chaired by Jim Reardon - "Ventilation and infiltration in mid- and high-rise residential buildings. Four papers have received first round reviews. Mandatory revisions required of all four papers. Expect to meet submission deadline.
2. Symposium session chaired by Martin Liddament on ventilation and air leakage in commercial buildings. No report from Martin Liddament - expected to be on schedule.
3. Seminar session chaired by Art McIvor "Advantages and disadvantages of pressurization of large buildings"

4. Forum session chaired by Steve Taylor - How should the building and occupant contaminants be combined?"

Ideas for the program for the Annual 2000 Meeting in Minneapolis (submission deadline Jan 24, 2000):

1. Symposium on residential ventilation to be chaired by Max Sherman.
2. Forum on a topic relevant to Std 62.2.

The Winter 2001 Meeting is scheduled to be held in Atlanta.

The subcommittee chair solicited program ideas and suggestions be submitted by e-mail.

Priorities for program items was formally approved by the committee. (Vote: 6-0-1-1)

(c) Handbook (M. Ratcliff)

1999 Applications volume - Chapter is published. Next revision due for 2003 volume. Comments to be sent to Mike Ratcliff.

2001 Fundamentals volume - Chapter 15 - deadline for approval by TC June 1999(?) Ron Petersen is leading the revision, David Wilson feels major revisions are required. At the Dallas meeting the TC must vote to approve this chapter's revisions. Voting members especially are urged to read the revised chapter prior to the meeting in Dallas to be able to vote. Comments are required by correspondence before then. Versions using both I-P and SI unit systems are required.

2001 Fundamentals - Chapter 25 - Iain Walker is leading the revisions, including a major reordering for improved readability. G.K. Yuill and B.A. Rock have already submitted comments. ISW aiming at December 01, 1999 submission.

It is expected that the results of RP-806 will feed into revisions to Chapter 43 in the 2003 Applications volume.

(d) Standards (M. Sherman)

Standard 62 - versions are on hold. ASHRAE website contains up-to-date information on status and addenda. Andy Persily is the new chair of SSPC 62.1 replacing Steve Taylor who is rotating off. A new research subcommittee chair of SSPC 62.2 is needed. Max Sherman to chair SSPC 62.2

Standard 119 - reaffirmed in 1994 - request has been received to reaffirm it. Question posed if anyone foresaw a need to revise this standard. Question asked if the standard has been adopted or used by any jurisdictions. **Action: All members of the TC were asked to review the standard and bring suggestions for revisions to the Dallas meeting.**

Standard 136 - deferred pending publication of Standard 62.2. Recommendation that it be reaffirmed (to include errata already identified since its publication). Reaffirmation recommendation approved by TC (Vote: 6-0-1-1).

Standard 161 - no report.

Standard 129 - no report.

Standard 152P - Mark Modera reported that this draft standard is out for public review, which closes July 07, 1999.

New standards liaisons - Fred Kohloss for both standards 62.1 and 62.2, Rodney Lewis for standard 152.

(e) Honours (G. Yuill)

Nomination of Max Sherman for the new Technology Achievement Award. Subcommittee chair solicited self-nominations for Fellow, and recommendations for nominees for the Exceptional Service Award (45 pts.), and the Distinguished Service Award (15 pts.).

5. Approval of minutes of previous meeting. (Vote: 6-0-2-1)

6. Old Business

The new revised scope for the TC has not yet been implemented.

7. New Business

Joe Lstiburek has offered to become a new voting member of the TC.

John Janssen reported that several state governments are in the process of enacting residential ventilation standards before ASHRAE has developed and published the necessary technical standard.

There are currently two voting members from LBNL on this TC. Until this situation is resolved, Iain Walker intends to abstain in formal votes.