

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

**1791 Tullie Circle, N.E./Atlanta, GA 30329  
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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: Apr 4, 2000

TC/TG/TRG TITLE: Ventilation Requirements and Infiltration

DATE OF MEETING: February 7, 2000 LOCATION: Dallas – Adams Mark Hotel; Trinity 5; 37th Floor

MEMBERS PRESENT	YEAR APPT D	MEMBERS ABSENT	YEAR APPT D	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Safir Adeni Bernado Cardenal Art Mclvor Michael Ratcliff Brian Rock – Chairman Steve Taylor Iain Walker Theresa Weston Craig Wray Helmut Feustel Martin Liddament Ron Petersen Dipak Shah				Alex Boome John Carter John E. Janssen Mark Modera James Reardon Max Sherman John Talbott Bruce Wilcox Jianshun Zhang Carey Simonson Dianne Griffiths Mario Medina Yasushi Kondo Bjarne Olesen  Andy Persily Joe Lstibureh Dave Shipley Jacques Rousseau Richard Grot Dave Grimsud Bert Phillips Duncan Hill Robert Ries Dongwoo Cho Dennis Stanke Larry Schoen Steve Kavanaugh

**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

Ken Cooper - 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

***Safir Adeni***

Submitted By: \_\_\_\_\_ Safir Adeni

## **ASHRAE TC 4.3: VENTILATION REQUIREMENTS & INFILTRATION**

### **Adams Mark Hotel, Majestic 5 (H/37) Dallas, Texas: Feb 7, 2000**

Meeting called to order at 4:18 PM

#### **1. Introductions:**

All members and guests present introduced themselves

#### **2. Attendance and Quorum Check:**

Quorum Check: 10 of 11 voting members present = simple majority  
(The international Members were also present and other voting member also joined later)

#### **3. Review of agenda:**

Agenda was reviewed and no changes were recommended

#### **4. Approval of Minutes of Last Meeting :**

Minutes of the last meeting were not published previously and therefore, will be approved at the next meeting after being published on the TC Website.

#### **5. Announcements:**

Chairman Brian Rock made the following announcements:

- The TC's Website, maintained by Brian Rock has moved to a new server at the University of Kansas. <http://hvac.arce.ukans.edu/ashrae/tc4.03/main.htm>
- News from the Section 4 breakfast meeting: Meeting was rather subdued; It was at 6.30 am in the morning. HQ is looking for programs for Minneapolis

#### **6. Subcommittee Reports**

##### **(a) Research (C.P. Wray)**

The sequence of discussing the various WS on the agenda was changed since an executive session was needed to approve some of them. Also, see research sub committee minutes for detailed information on the following research items:

Item 3. "Heat Transfer during Residential Infiltration/Exfiltration" 1169-WS: Motion (Walker/Craig) to re-approve the modified Work statement 1169 being co sponsored by the California EC: Approved 9-0-1.

Items 4, 5, and 6: One pagers are being prepared for Minneapolis.

Item 7: Steve Taylor and Martin Liddament will prepare a one pager

Item 8: Steve has 1 pager for Minneapolis

Item 9: Steve and Jim Reardon will do more work on this one, possibly split the scope.

Bjarne Olesen indicated that several research WS were recommended for transfer to TC4.3 from EHC at this mornings meeting. EHC is not geared for elaborate Research activities.

The following new research topics were proposed and will need more deliberation by subcommittee:

- a. "Measurement of Stack Induced Infiltration in High Rise Buildings."
- b. "Computational Prediction and Analysis of Natural Ventilation through Large Openings."
- c. "Analysis of Exterior Wall Related Air-Leakage Levels in Currently Built Wood-Framed Residential Houses."

Tom Axley of TC9.2 announced that they would like TC4.3 to sponsor their research WS . He passed copies of their WS and requested feed back.

New Research Projects:

1. 1167-TRP: PES Chair Yan Chen discussed the subcommittee deliberations. Motion (Ratcliff/Mclvor) to recommend to RAC that all proposals be rejected since none of them meet the score level required; and that the TC will re-write the Work Statement and put out for open bid again. Motion passed 8-0-1. Walker abstained since there was already another voting member (Wray) from the same organization LBL.
2. 1168-TRP: PES Chair Walker discussed the deliberations and recommendations of the subcommittee to select one of the bidders. There was a Motion (Weston/Mclvor) to recommend to RAC the recommendation of the PES. Motion passed 8-0-1. Walker abstained since there was already another voting member (Wray) from the same organization LBL.

#### **(b) Program (T. Weston)**

Program status handouts were distributed. We are not on track with our plans to have a forum for each meeting. (Forums especially focussed on issues arising from SSPC 62.1 and 62.1.)

SSPC 62.2 discussed how best to communicate some of the unclear issues on residential ventilation and wanted to publish some papers in transactions and present at the Minneapolis.

They plan to present a seminar in June and submit the papers in Jan 2001 transactions.

The winter 2001 Meeting is now in Orlando.

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

#### **(c) Handbook (M. Ratcliff)**

2003 Applications volume - Mike Ratcliff has 2 volunteers at present and is looking for more volunteers.

2001 Fundamentals volume - Chapter 15: Handbook sub committee recommended for approval by the TC. Motion approved 8-0-3

2001 Fundamentals - Chapter 25 - Iain Walker presented a draft. There is one controversial issue about handling of ETS. The sub committee voted to include it in. The TC deliberated the same issue; to include it or not; there was a motion (Reardon/ Petersen) to include the ETS section in the handbook chapter 25. Art Mclvor indicated that ASHRAE HQ especially the President has recommended all standards and project committees in the Ventilation area to discuss ETS related issues. Motion fails 0-4-4 CNV.

Handbook subcommittee felt that table 3 (effective air leakage areas-low rise residential applications) had several numbers whose origin and accuracy was not determined therefore were considering removing the table. After much deliberation at the TC4.3 level, it was decided to keep it in with some cautionary notes.

To meet the March deadlines, any changes, or recommendations need to be sent to Iain by Feb 20, 2000.

Max Sherman suggested an applications chapter for 2003 Handbook on Ventilation. Steve Taylor plans to do a 1 pager to the HQ handbook liaison committee.

### **Standards (M. Sherman)**

Standard 62.1: They have 17 addenda they are working on. The 1999 version of the standard is now published. The entire standard will be republished on a 3-year cycle. ASHRAE Website contains up-to-date information on status and addenda.

SSPC 62.2: Max Sherman, Chair, passed out material published at the open session. They will be starting their work officially after 14 months of wait. They plan to go for public review soon.

Standard 119 – No report

Standard 136 – This is being reaffirmed by the Standards Committee. 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: There are issues with the balance on the committee. The Standards committee have recommended a new mix and identified a person to maintain this balance.

Standard 129 - no report.

Standard 152P - Mark Modera reported that some changes were made based on the comments. This is going to be via the ISC (Independent Substantive Change) Process.

Chairman Rock asked the attendees for new standards ideas to be sent to Max Sherman.

### **(d) Honors (G. Yuill)**

Gren had suggested that nominations could also come from the local ASHRAE chapters. Chapter Rock solicited self-nominations for Fellow, and recommendations for nominees for the Exceptional Service Award (45 pts.), and the Distinguished Service Award (15 pts.).

## **7. Old Business**

ASHRAE HQ indicated that the new revised scope for the TC is being implemented. Chairman Rock announced several roster changes affected by members rolling off and or having to change to corresponding membership due to multiple members from the same company.

## **8. New Business**

There was no new business.

Meeting Adjourned 6:25 PM