

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND
AIR-CONDITIONING ENGINEERS, INC.
1791 Tullie Circle, N. E.
Atlanta, GA 30329
404-636-8400**

TC MINUTES COVER SHEET

TC 5.8 Industrial Ventilation

DATE: June 24, 2009

Date of Meeting: June 22, 2009

LOCATION: Louisville, Kentucky, USA

Voting Members Present	Year Appointed	Voting Members Absent	Year Appointed	Additional Attendees
M Baucom	2008	A Braum	2008	W Lawton
G Knutson	2007	E Binder	2006	D Ghosh
G Menzies	2006	A Woody	2008	W Kumpf
V Peppers	2008	D Phillips	2006	H Bagheri
K Mead	2008			D John
				J Pennington
				T Godbey
				M Kallis
				L Smith
				M Terzigni
				V Gupta
				L Shapiro

DISTRIBUTION

<i>All Members of TC plus the following:</i>	
TAC Section Head:	Gaylon Richardson
TAC Chair:	Brian Becker
All Committee Liaisons & Special Members, as listed on roster:	Richard Hall: Membership Committee Wei Sun: Chapter Technology Transfer Mohammad Hosni: Research Liaison Julia Keen: Special Publications Bodh Subherwal: Standard Liaison
Manager of Standards:	Clair Ramspeck
Manager of Research & Technical Services:	Mike Vaughn

**TC 5.8 INDUSTRIAL VENTILATION
DRAFT
MEETING MINUTES – LOUISVILLE, KENTUCKY
JUNE 22, 2009**

Note: These draft minutes have not been approved. They are not official approved record until approved by the committee.

Meeting Location: Galt House, Louisville, Kentucky

Scope: TC 5.8 is concerned with the industrial environment as it affects the in-plant personnel, process, and equipment. It embraces supply air cleaning, heating, cooling, and exhaust ventilation.

PRELIMINARIES (Mike K. Baucom)

The Summer Meeting of TC 5.8 was held at the Galt House in Louisville, Kentucky. Chair Mike Baucom called to order at 4:16 PM.

Mike Baucom introduced himself and other attendees followed.

Five of nine voting members were present constituting a quorum. There were 17 people present.

Handbook Liaison (David John and John Pennington)

- 1) David John discussed Chapters 29/30 in Applications Handbook
 - a. Target for progress completed January of 2010
 - b. Full vote by June 2010 for 2011 publication.
 - c. David John inquired weather the TC would meet the schedule. Ken Mead stated that we “absolutely would meet the deadlines”.
- 2) There is a philosophical change in the handbook provided by CD+.
 - a. This electronic version of the handbook is designed to allow insertion of files not practical in a printed version. Illustrations, movies, color presentations, large databases, etc. can be included in CD+.
 - b. Another advantage of CD+ is that it does not need to wait for the four-year cycle. The TC can update the chapter each year. The deadline is February 1 of each year.
- 3) The handbook chapter should address demand ventilation, whenever applicable.

- 4) The handbook chapters should include at least a paragraph that addresses sustainability.
- 5) ASHRAE has received comments on several chapters.
 - a. The TC must address, and where appropriate consider incorporating, the comments.
 - b. It is the responsibility of the TC to seek out these comments, if any. They are located on the ASHRAE (www.ashrae.org) probably in manuscript central.

Chicago Minutes (Gerhard Knutson)

Meeting minutes from Chicago were distributed. There were a few comment/corrections. George Menzies moved, seconded by Vern Peppers, that:

TC 5.4 accepts the minutes as amended.

The motion carried (4, 0, 0), with chairman not voting.

Section Head Meeting (Mike Baucom)

- 1) New rosters are available. Contact Mike Baucom for a copy.
- 2) Mike Baucom has compiled a list of all the TC email addresses on the 09-10 Roster. Contact him if you want a copy of the list, under the condition that it is to be held in strictest confidence for use by Committee Members only.
- 3) ASHRAE will introduce a new position – **Provisional Corresponding Members**. The nomination as a Provisional CM can go through a group outside the committee. There is no obligation for the committee to move a Provisional-CM to either a CM or a voting Member after the two year term. However, it may be an opportunity for the TC to obtain some “New Blood”.
- 4) ASHRAE is considering elimination of the international member. The position may be replaced with **voting – non-quorum** position. Each committee may have two voting – non-quorum members. The position would be similar to international member. They can vote at the meeting or mail ballots, and they count in the determination of a quorum only when they attend a meeting; however, if they are absent from the meeting they do not count against a quorum.
- 5) ASHRAE again will send letters of appreciation to employers of participating members. Contact the chair, or go to the website, to get the letter in the pipeline.
- 6) The Hightower Award has been modified to cover effort over the past four years of service.
- 7) Program note:
 - a. ASHRAE will set meeting theme two years in advance.
 - b. The TC’s may suggest tracks.
 - c. Conference papers will be introduced at Albuquerque (see below).

- 8) Seminar recording changes are in the works. It will be possible to give a seminar but not have it recorded.
- 9) Handbook committee is promoting CD+. There is a power point presentation discussing CD+.

Handbook Subcommittee (Ken Mead)

Ken Mead is sending another call for assistance. The handbook subcommittee has only two members. If we are not forthcoming, Ken will extract volunteers.

The current modification will include hot work information, primarily generated by CDC.

Research: (Gerhard Knutson)

There was no research report.

Standards (Deep Ghosh)

Standard 90.1

The report was delayed until Leon Shapiro arrived later in the meeting.

SSPC 62.1 (Wayne Lawton)

TC 5.4, TC 5.8, and TC 9.2 applied for an exception to Standard 62.1. SSPC 62.1 clearly said “no”. Eliminating industrial applications for a standard designed for office spaces will not happen. As an alternative, SSPC 62.1 needs help and input concerning industrial spaces. The standard form may be used to proposed changes. SSPC 62.1 implies they will work with it and address it. Comments by the TC carry more weight than an individual request.

Apparently, the SSPC wants to establish air change rates or ventilation rates for categories of industrial spaces just as they have established rates for movie theaters, locker rooms and other well-defined spaces.

Standard 110

Gerhard Knutson reported that a revised standard will be submitted to ASHRAE for public review before the July 20 deadline.

SPC 199(Gerhard Knutson)

A new standards project committee, SPC 190, has been established to standard for pulse jet duct collectors. The SPC is looking for industrial (user) volunteers to fulfill the balanced requirement. If interest or have a suggestion, contact Gerhard Knutson.

SSPC 15 - Safety Code for Mechanical Refrigeration

The revisions hope to solve all the problems with the refrigerants.

ASHRAE Guideline 21 – Battery Room Ventilation

The draft received about 400 comments. The comments were split between IEEE and ASHRAE and have been addressed. A revised draft will be coming out soon.

Aside

ASHRAE provides an on-line update service for standards. Contact ASHRAE to get into the loop and receives the current updates.

Ventilation of Hazardous Spaces (Mike Baucom)

The Ventilation of Hazardous Spaces Subcommittee met Sunday with a short meeting. The subcommittee is considering a new Handbook Chapter entitled “Ventilation of Hazardous Spaces”. They are early in the effort. The first step is gathering definitions and a call for participation. Once they have proceeded sufficiently, they will come up with an outline.

A short discussion ensued. The main points were:

- 1) The process is early and has not been completely fleshed out.
- 2) The current expectation is that the new material will be about eight pages in the handbook.
- 3) It is possible that the material should be incorporated in Chapters 29 and 30 rather than a new chapter.
- 4) If it proceeds as a chapter, the goal is to place it in the 2015 Applications Volume.
- 5) The subcommittee scope, as agreed previously, is: "This subcommittee shall recommend safe practices and equipment design parameters associated with the installation and operation of HVAC Units and related hardware in Hazardous Spaces other than Laboratories, containing known sources of airborne toxic, flammable or combustible materials, with specific exclusion of radioactive and pathogenic substances."

Programs (Mike Baucom for Al Woody)

Louisville (February 8, 2009 deadline for seminars)

Seminar: Design for Hazardous Exhaust Conditions, with 9.10 and 5.4 (Wayne Lawton)

Beyond Orlando

Several possible topics were discussed for program after Orlando.

- Seminar: Case study of Industrial ventilation
(Hank Bagheri)

- Seminar: Strategies for Maintaining Industrial Ventilation Systems
(Gerhard Knutson)

- Seminar: Ventilation of Hazardous Spaces
(Mike Baucom)

- Symposium: Displacement ventilation
(Al Woody)

Conference Paper

[The minutes modified after talking to the Programs Committee representative. They may not represent what was discussed at the meeting. However, the secretary believes the following is correct.]

ASHRAE will institute a **Conference Paper** for Albuquerque. The conference paper would be more difficult than a seminar, as ASHRAE would publish it in the Transactions, but not as difficult as a symposium paper. For Albuquerque, the following schedule will prevail:

- 1) Abstract due on September 25, 2009. The abstract would be about 400 words. Presumably, ASHRAE will have a format available soon. It will be at www.ASHRAE.org/NEWMEXICO
- 2) Programs will review the abstracts and decide which papers should precede.
 - a. The deadline for acceptance is October 9, 2009
 - b. Acceptance of the abstract is not acceptance of the paper.
- 3) The paper, ready for publication, is due January 9, 2010.
 - a. Paper should be in Word, single space, and seven to eight pages long.
 - b. The paper will be published in the format submitted, no reformatting into the "Transactions" format.
- 4) The paper will be Single Blind Review
 - a. Three reviewers will be required. It will not be necessary to hide the identity of the author.
 - b. The responsible TC will be asked to provide the reviewers.
- 5) Reviews are due by February 12, 2010.
- 6) Resolution of disagreements and final draft of paper is due March 12, 2010.
- 7) The Programs Committee will place the paper with other papers of similar subject matter. However, single papers may find strange bedfellows.
- 8) Paper presentation will be June 26-30, 2010

Committee Tracks

Most programs need to fit into the meeting theme. Another approach would be for several committees to develop a track for the meeting. For example, 9.2, 5.8, and 5.4 could develop an industrial track. Mike Baucom will look into this.

Webmaster (Vern Peppers)

The TC Web site up and functioning; however, it has not been up dated. When Vern Peppers attempts to enter new material, he gets an error message and he cannot update the site. Mike Baucom said he would look into the situation and would have a resolution by the next meeting. He also referred bringing a bat so the TC could “beat on him” if it is not functioning by next meeting.

Membership (Bill Kumpf)

The 2009 - 2010 TC Roster was distributed and members or corresponding members present had an opportunity to make changes. If you requested a change, it is your responsibility to contact ASHRAE to make the changes.

Next year (beginning July 1, 2009), the committee will have nine voting members Mike Baucom-chair, Gerhard Knutson – Secretary, Ken Mead, Al Woody, Wayne Lawton, Vern Peppers, Erich Binder, George Menzies, and Andy Braum.

Andy Braum will not be able to continue attending meetings so the committee must appoint a new vice chair.

There are currently thirty-one (31) CM. Before next meeting, Mike Baucom and Bill Kumpf will weed out the CM list. If you have been inactive but want to stay on the CM list, look for opportunities to volunteer. For example, contributions to the chapter can be competed without leaving your office chair. We need your help and you will benefit from participation.

The chair need to submit a roster at the next meeting (June in Albuquerque). Contact chair with any suggested changes.

New CM Mark Terzigni of SNACNA introduced himself

Old Business

Mike Baucom reported that ASHRAE has made a decision n Industrial Ventilation Seminar. The short course will not happen.

Wayne Lawton reported that Standard 62.1 rejected our request to be eliminated.

Leon Shapiro, representing SSPC 90.1, reported on the response made to the request may reject the changes in Addendum “aq” to Standard 90.1. Previously, industrial was excluded and the draft addendum eliminated the exclusion.

Leon Shapiro explained that up until now industrial was exempted. However, DOE has pressured ASHRAE to increase the effect of 90.1. Instead of getting more energy reduction from those covered, the plan is to cover get more energy reduction by increasing the spaces that are covered. No one expressed a problem with wanting to reduce energy consumption. However, achieving this may affect the process or life safety issues. The compromise was the following wording:

2. SCOPE

2.1 This standard provides:

- a. minimum energy-efficient requirements for the design, construction, and a plan for operation and maintenance of:
 1. new buildings and their systems
 2. new portions of buildings and their systems
 3. new systems and equipment in existing buildings
- b. criteria for determining compliance with these requirements.

2.2 The provisions of this standard do not apply to

- a. single-family houses, multi-family structures of three stories or fewer above grade, manufactured houses (mobile homes), and manufactured houses (modular),
- b. buildings that use neither electricity nor fossil fuel, or
- c. equipment not listed in this standard and portions of building systems that are part of industrial or manufacturing processes, unless they are specifically identified in the standard.

2.3 Where specifically noted in this standard, certain other buildings or elements of buildings shall be exempt.

2.4 This standard shall not be used to circumvent any safety, health, or environmental requirements.

Mechanical systems, building envelopes, and lighting are areas in 90.1. The considerations may be different for industrial rather than commercial. For example, day lighting and task lighting applications may be very different for commercial and industrial applications.

Another example (Wayne Lawton), if chiller is for process or life safe issues that it does not come under the standard.

Various TC members will identify areas of conflicts and develop the user's manual for the standards. Leon Shapiro stated that the **user manual would be to help the code authorities**. [Emphasis added. Note – the standard has public review while the user's manual does not. It is likely not legal to attempt to enforce the user's manual.]

George Menzies offered a steel mill as an example of the difficulty of applying Standard 90.1 to industry. It may apply to the offices, break rooms, lunchrooms, etc. However, application to the Melt Shop would be ridiculous.

Leon Shapiro reminded us that Standard 90.1 applies to new buildings and new portions or new equipment in existing systems.

New/Old Business

None

Announcements

The next meeting is Orlando, Florida at 4:15 PM on January 25, 2010

Adjournment

George Menzies moved adjournment 6:14 PM.

Respectfully submitted,

Gerhard W. Knutson

Minor Editorial Amendments by Mike Baucom