

Minutes
TC 5.10 Kitchen Ventilation Main Committee Meeting
Monday, January 22, 2018, 6:30PM – 7:30PM
Palmer House, Burnham 4
Chicago, IL

1. Call to Order and Introductions
2. Quorum Call

Voting Members:

- | | |
|---|---|
| <input type="checkbox"/> Jimmy Sandusky | <input type="checkbox"/> Dwayne Sloan |
| <input type="checkbox"/> Russell Robison(x) | <input type="checkbox"/> Tony Spata(x) |
| <input type="checkbox"/> Andre Saldivar | <input type="checkbox"/> Rich Swierczyna(x) |
| <input type="checkbox"/> Greg Duchane(x) | |
| <input type="checkbox"/> Terry McCabe(x) | |

5 out of 8 members present – quorum achieved.

3. Commitment to the ASHRAE Code of Ethics – In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests.
See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

4. TC Membership
www.ashrae.org/joinatc

Levels of Membership:

- Provisional Corresponding Member – Automatic roll-off after 2 years
- Corresponding Member
- Voting Member – Non-quorum
- Member – Non-voting
- Member – Voting

5. E-mail Aliases
 - A. Chair: tc0510@ashrae.net
 - B. Vice Chair: tc0510.vch@ashrae.net
 - C. Secretary: tc0510.sec@ashrae.net
 - D. Handbook: tc0510.hbk@ashrae.net
 - E. Program: tc0510.pro@ashrae.net
 - F. Research: tc0510.res@ashrae.net
 - G. Standards: tc0510.std@ashrae.net
 - H. Webmaster: tc0510.web@ashrae.net

6. Approval of Minutes from Annual Meeting in Long Beach, CA.

Motion to approve the minutes – Greg motion, Tony second, all in favor.

7. Announcements

- A. TC 5.10 is not sponsoring seminars, but members are presenting in the following: Seminar 30: From Concept to Commissioning: How to Get a 1,000 Ton Chiller Plant in a +60 Story Condominium Building (Frank Kohout) and Seminar 64: Combo Filters for IAQ and Energy Savings (Derek Schrock). Another seminar that may be of potential interest: Seminar 14: Controlling Pollutant Sources in Residential Buildings (Development of a Smart Range Hood).
- B. TC/TG Chair Breakfast Announcements
 - People keeping program deadlines are an issue, commercialism an issue
 - Want review of code of ethics
 - Larry Smith chair for Section 5
 - ASHRAE is looking for legacy presentations (1920-2000) on technology

8. TC 5.10 Roster Update

- A. Roster updates occur after every winter meeting and are effective July 1 of that year
- B. A new secretary for TC 5.10 is needed, effective Jan 2019 meeting.
 - 1. Volunteers: Jimmy to maintain position until next roster update, will follow up at next meeting with emergency roster change form as needed.
- C. A new Program Subcommittee Chair is also needed.
 - 1. Kevin Muldoon is potentially interested
- D. Current roster has about 45 people
- E. Voting Member Roll Off Dates – Derek Schrock and Kevin Muldoon have expressed interest and are to be added to the roster effective July 1, 2018.

2018 – Jimmy Sandusky

2019 – Tony Spata

2019 – Russell Robison

2019 – Rich Swierczyna

2019 – Andre Saldivar

2020 – Dwayne Sloan

2019 – Greg Duchane

2019 – Terry McCabe

9. Reports

- A. ASHRAE Liaisons
 - 1. Mike W – update, C10 (), I10 (2020 revision), M10 (ongoing)
 - 2. Section 5 Chair, Larry Smith – TC Chair training getting better. Larry is here to support us.
- B. Handbook – Frank Kohout
 - 1. Finalize 2019 version at the June meeting
 - 2. ASHRAE now has an author portal online (only works with IE, use online editor)
- C. Research – Derek Schrock
- D. Program – Russ Robison filled in, Kevin Muldoon interested in taking over position.
- E. Webmaster Report – Vern Smith

- F. SSPC 154 Ventilation for Commercial Cooking Operations – Rich Swierczyna
 - 1. Three IMC proposals on leakage test (eliminate light), performance test (type I vs. type II hoods).
 - 2. Two UMC proposals.
- G. UL 710 – Mark S.
 - 1. UL710 file review has been completed – all files comply with new standard.
 - 2. Effective dates will no longer be stated on new standards.
 - 3. UL 8782 Outline of Investigation – looking at transitioning to a consensus standard.
 - 4. Mark will follow up on 710C.
- H. IKECA – Mike Watz
- I. SSPC 189.1 – Gregg Gress
- J. TC 2.9 – Scott Sherwood
 - 1. TC 2.9 interested in co-sponsoring future research items related to UV [reach out to Scott].

10. Old Business

- A. 5.10 seminar survey results from previous meeting in Long Beach.

Seminar	Total Score	# Attendees
Commissioning of CKV Systems	4.257	52
Heat Gain Updates	4.266	35
CKV: Insights into Energy and Water Efficiency	4.339	77
PCU Technologies	4.490	30

ASHRAE is tracking the scores, if you are below 3.5 three times you will need training.

- B. RP-1614 Development of a Method of Test for UV Effectiveness project contract awarded to Syracuse University. PMS meeting anticipated for June 2018 meeting. Email sent to manufacturers for the following items: pre-fabricated grease duct, inline exhaust fan, VFD and equipment.
- C. Potential liaison opportunities for other TCs/SSPCs:
 - 1. TC 2.3: [Gaseous Air Contaminants and Gas Contaminant Removal Equipment](#)
 - 2. TC 2.4: [Particulate Air Contaminants and Particulate Contaminant Removal Equipment](#)
 - 3. TC 2.5: [Global Climate Change](#) (Discussed at previous meeting for potential overlaps in Scope)
 - 4. TC 4.1: [Load Calculation Data and Procedures](#)
 - 5. TC 5.4: [Industrial Process Air Cleaning \(Air Pollution Control\)](#) (Potential overlaps with PCU technology)
 - 6. TC 5.5: [Air-to-Air Energy Recovery](#)
 - 7. TC 7.9: [Building Commissioning](#)
 - 8. TC 10.7: [Commercial Food and Beverage Refrigeration Equipment](#)
 - Potential interest in communication and controls between the appliances and hoods. Chair made a working group to evaluate the topic. Jason G., Vern S., Rich S., Daryl, Greg G., Curt S., Jimmy S.

9. SSPC 90.1

- Link to ASHRAE PC List Servers:
<https://www.ashrae.org/standards-research--technology/standards--guidelines/standards-activities/project-committee-list-servers>

11. New Business

- A. ASHRAE 90.1 Maximum Exhaust Airflow Rates, Table 6.5.7.1.3. Below is an excerpt from an email received from Dr. Andrey Livchak (Halton) regarding a potential downfall of this methodology. Would like feedback from TC 5.10 members and potential working group formed to proposed alternative language, if necessary.

“We’re missing energy saving potential in commercial ventilation systems by wrongly setting targets in ASHRAE 90.1. Maximum exhaust airflow rates are set in table 6.5.7.1.3. as cfm per linear length of hood. Effectively the way around this requirement is to build a bigger hood with longer overhangs. Overhangs do help hood performance, but only to certain extent.

I’ll give a hypothetical example designing a hood for a 6’ broiler in island installation.

Solution A: Canopy island hood with 24” overhang on both sides, total hood length $6+2 \times 2=10'$, total exhaust airflow 4,200 cfm.

Solution B: Close proximity, high efficiency hood with 0” overhang, total airflow 2,940 cfm

Solution A is in compliance with 90.1 (420 cfm/ft), but its exhaust airflow is 1,260 cfm higher than Solution B ($2,940/6=490$ cfm/ft exceeds 90.1 requirements of 420 cfm/ft). From the energy perspective Solution B is better, but does not comply with 90.1 requirements.

More appropriate method would be setting exhaust airflow rates per cooking equipment length rather than per hood length and take into consideration appliance duty level and its position (island vs wall installation).”

Cfm/ft does not work when we talk about the maximum airflow. Something relative to the length of the source would be better.

This would need to be a proposal from TC 5.10 to the 90.1 Standard

Andrey will work on putting the data together.

- B. GTI Lab tour available Wednesday, January 24th from 9am to noon
C. Other New Business Items

12. Adjourn

Tony motioned to adjourn, Greg seconded. Meeting adjourned at 7:30 pm.