

ASHRAE TC 5.10 Meeting Minutes
January 24, 1999
Monroe Room 7, Palmer House Hilton, Chicago, IL

Rick Bagwell called the meeting to order at 4:35 pm. Start of the meeting was delayed due to a scheduled time overlap with SPC-154P.

Membership Subcommittee Report:

John Clark discussed the roll-over roster. The overall categories that ASHRAE prefers to have on the committee include vendors, consultants, end users. Corresponding membership forms can be obtained from John.

Research Subcommittee Report:

Don Fisher is acting as chairman in Charlie Claar's absence. Subcommittee groups developed two work statements since the last meeting. Derek Schrock, Charlie Claar, and Bill Gerstler developed the SOW for "Development of a Draft Method of Test for Determining Grease Removal Efficiencies." Doug Horton and Don Fisher developed the SOW for "Assessment of Replacement Make-up Air Options for Commercial Kitchen Exhaust Hoods", which was re-written to include more than just short-circuit hoods and to increase the budget. Letter ballots for both were distributed via email and completed earlier this week. Letter ballots were used, rather than waiting for this meeting, so that both could be reviewed by RAC a meeting scheduled for this past Friday. As previously published in a email to TC 5.10 voting members, the results at close of balloting were:

1. Development of a Draft Method of Test for Determining Grease Removal Efficiencies

FOR 13

AGAINST 0

ABSTAIN 0

NOT RETURNING BALLOT 3

TOTAL VOTING MEMBERS 16

2. Assessment of Replacement Make-up Air Options for Commercial Kitchen Exhaust Hoods

FOR 12

AGAINST 1

ABSTAIN 0

NOT RETURNING BALLOT 3

TOTAL VOTING MEMBERS 16

Bill Gerstler with University of Minnesota provided a brief update on 1033-RP, "Effects Of Air Velocity On Grease Deposition In Exhaust Ductwork." Preliminary work has focused on using an oleic acid with a fluorescent tracer to determine grease deposition. This method is being used because measuring actual grease deposition by weight may be very difficult. They have looked into other standards in other countries, but have not found much. Guidelines do exist and US codes have requirements, but there has been little underlying research to date.

Don Fisher reported that he will contact ASHRAE Publications on behalf of the PG&E Food Service Technology Center to inquire about publishing the final report from 745-RP to make it more widely available. The title of 745-RP is "Identification And Characterization Of Effluents From Various Cooking Appliances And Processes As Related To Optimum Design Of Kitchen Ventilation Systems".

A question was raised about posting research reports to a web page. This is probably contrary to ASHRAE policy since it controls the copyright and attempts to recoup some costs by publishing

hardcopy.

Don Fisher presented a list of potential topics for research.

1. Indoor Air Quality (IAQ) in Commercial Kitchens
2. Assessment of Re-circulating Hood Technology
3. Develop Method of Test for Determining Need for Type I Exhaust Hood over a Cooking Process
4. Effluent Characterization from Solid Fuel Cooking Equipment with respect to Particulate and Odor Control, and Potential IAQ Issues
5. Particulate and Odor Control Technology Assessment
6. Estimating the Cost Saving Potential of Variable Flow Kitchen Exhaust Systems
7. Investigation of New Technologies Available in Hood Design and Their Effects on Commercial Kitchen Ventilation.
8. Refinement of Computational Fluid Dynamics Software to Kitchen Hood Design
9. Development of a Cooking Effluent Emulator to Improve Standardization of Hood Testing
10. Cookline Appliance Diversity Affects
11. Broiler Emissions Characterization

The consensus of those attending was the following:

#1 OK. Bagwell and Brown will draft a one-page description

#2&3 Will be combined. We have an existing one-page description that Fisher, Carter, Schrock, and Ramsey will develop into a work statement.

#4&5 OK if combined. Fisher, Carter, Schrock, and Ramsey will develop a one page description.

#7 Drop.

#8 This is worth doing a work statement. Baker and Knappmiller will draft a work statement.

#10 Schrock will draft a one page description.

Bill Gerstler suggested more research on under-fired broiler emissions to address the question of what happens to the grease during cooking. Broiler design may be very important factor influencing the amount and quantity of emissions. More data are needed on under-fired broilers and there is not much data on over-fired broilers. Based on his comments, topic #11 was added to the list.

Handbook Subcommittee Report:

Vern Smith reported that galley proofs were reviewed last September for the 1999 edition. The subcommittee has identified topics for refinement during the next cycle and volunteers were solicited. Each topic group now has a volunteer coordinator. The graphics were reviewed during the subcommittee meeting and some will be replaced with new drawings or photographs.

Program Subcommittee Report:

Current Programs: Kevin Knappmiller reported that the forum titled " Commercial Kitchen Ventilation Applications: Issues and Solutions" was well attended this morning. Our proposed seminar from the last meeting was submitted to ASHRAE, but it was not scheduled due to space limitations at the Palmer House Hilton hotel. A large number of other seminars were also not scheduled during this meeting for the same reason. We have a symposium titled "Energy Efficiency in Commercial Food Service Facilities" scheduled for Wednesday.

Future Programs:

Seattle Seminar: We will resubmit the seminar that was scheduled originally for this meeting.

Seattle: Symposium: We do not have a symposium ready, but there are two technical papers ready from completed research projects available for presentation in a general technical session. Rick Bagwell will send a letter requesting that they be scheduled for a session after Sunday so that TC5.10 participants can attend.

Dallas Symposium: Title: "Innovation in Kitchen Ventilation Design, Part 2." Rick Bagwell will chair it.

Dallas Seminar: "Introduction to Kitchen Ventilation Standard." Abstracts must be ready by next meeting. Chris Rousseau will chair it.

Liaison Reports

Research Liaison Dick Kelso reported that the two work statements discussed above were submitted to RAC. They may be reviewed at the March RAC meeting.

SPC-154P Chair, Chris Rousseau, reported progress on the draft standard. The goal is to have a completed draft by the next meeting that can be voted out for public review.

Standard 62 Liaison, Dave Wolbrink, reported that revisions to Standard 62.2, "Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings," was voted to go to public review. It will be a 120-day public review period and many comments are anticipated. Standard 62.1, "Ventilation and Acceptable Indoor Air Quality in Commercial, Institutional, and High-Rise Residential Buildings" is now a continuous maintenance standard.

New Business

Rick Bagwell and Don Fisher presented a plaque to Joe Knapp to express the gratitude of TC5.10 for Joe's outstanding contributions to the kitchen ventilation industry and to ASHRAE. Joe has retired from full time employment and will resign from TC5.10.

The June 1998 TC 5.10 meeting minutes were approved unanimously (moved by Fisher, second by Brown).

The meeting was adjourned at 6:45 pm (moved by Dixon, second by Fisher).