

MEETING MINUTES  
TC 2.3 - Gaseous Contaminants/Removal  
Equipment Standards Subcommittee  
Webinar Meeting  
Friday, June 22, 2022, 1:00-2:00 PM EDT

**DRAFT**

- 1) Attendees: Michael Sherber (Chair), John Randtke, Gemma Kerr, Tony Abate, Gabrielle Davis, Paula Levasseur, Chris Muller, Brian Krafthefer, Tori Binz, Paul Glowacki, Kevin Kwong, Zoe Hoskin, Christopher Vizcaino, Caitlin Naske, Dave Schaaf, Vivek Gaur, Lane Flora, Chrystal Jolliffe, Mick Flom, Gregg Sanko, Sanjeev Hingorani, Peter McKinney, Ashish Mathur
- 2) Call to Order: This webinar meeting was called to order at 1:13 PM due to delays in getting the online links working.
- 3) The ASHRAE Code of Ethics Commitment was read.
- 4) The agenda was approved.
- 5) The Jan. 21, 2022 webinar minutes were approved without changes.
- 6) Guideline 27-2019 Update Review  
Chairman Sherber informed the subcommittee that the full committee had at the January meeting approved the updating of GPC 27-2022. The Chair made a request for the volunteers for a subcommittee to update GPC 27-2022. The following people volunteered:
  - Gemma Kerr, recommended to chair GPC 27-2022
  - Brian Krafthefer
  - Christopher Vizcaino
  - Michael Sherber
  - Marilyn Listvan (tentative); (Gemma thought she would, and agreed to ask her)
- 7) Update on standards within scope of ASHRAE TC 2.3
  - a) ASHRAE Std. 145.1-2015 "Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Loose Granular Media" - *Tony Abate said that they submitted revisions to for the definitions to be approved to go to publication public review (PPR).*
  - b) ASHRAE Std. 145.2-2016 "Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices" – *Tony Abate said that they have a working group to incorporate changes because of RP 1838. Their goal is to go to PPR relatively soon.*
  - c) ASHRAE Std. 145.3P Chamber test for air cleaners - *Caitlin Naske said that 145.3P has been submitted for review. The TPS will be presented to the Standards Committee for approval. TC 2.3 has already approved the TPS.*
- 8) ASHRAE SPCs/SSPCs/TCs/TGs; TRGs activities
  - a) TC 2.9 "Ultraviolet Air and Surface Treatment" - *Ashish Mathur. No report.*
    - i) SPC 185.1-2015 "Method of Testing UVC Devices for use in air handling units or air ducts to inactivate airborne microorganisms" - *Ashish Mathur. No report.*
    - ii) SPC 185.2-2014 "Method of Testing Ultraviolet Lamps for Use in IIVAC&R Units its Air Ducts on Irradiated Surfaces" - *Ashish Mathur*

- iii) SPC 185.3 - *Kathleen Owen said this committee met earlier in the day. It is still in its beginning steps.*
    - iv) SPC 185.4 – *Ashish Mathur said this is a new test method for UV devices for full room disinfection that was started earlier this year. He added they are looking for new members.*
  - b) SSPC 62.1 "Ventilation and IAQ High Rise Buildings" – *The following addenda have been approved since Las Vegas:*
    - i) *Guideline 42P (IAQ Guideline)*
    - ii) *DA19-0004 (O&M Update)*
    - iii) *62.1 ag (Calculation of Exhaust/Intake Separation using RP-1635)*
    - iv) *DA19-0018 (Update Table 6-1 regarding Outpatient Facilities)*
    - v) *62.1ab (Normative Appendix for CO2 Calculation)*
    - vi) *DA19-0009 (Air Density Corrections) Approved for PPR, attempting to resolve public review comments received.*
  - c) SSPC 62.2 "Ventilation and IAQ Low Rise Buildings" – *We need a volunteer to report to this subcommittee. No report.*
- 9) Information Exchange
- a) AFS - KJ Choi
    - i) 13<sup>th</sup> World Filtration Congress, San Diego, CA, Oct. 5-9, 2022
    - ii) FiltCon 2023, Louisville, KY, May 1-3, 2023
  - b) ASTM D28.04 "Activated carbon" SC "Gas Phase Evaluation Tests" - *Lane Flora said the goal is to rebalance the method and make some additions. This is to be reballoted.*
    - i) **D6646-03 (2014) "Standard Test Method for Determination of The Accelerated Hydrogen Sulfide Breakthrough Capacity of Granular and Pelletized Activated Carbon"** - *No report.*
  - c) ISO/TC 142 "Cleaning Equipment for Air and Other Gases" – *Kevin Kwong*
    - i) Working Group 8: Gas Phase Air Cleaning Devices and Media – *this is also known as ISO 10121-3*
    - ii) Working Group 11: Portable room air cleaners for comfort applications (Joint between ISO/TC 142 and IEC/TC 59). *Kevin Kwong said WG11 is working on a chamber test like AC-4.*  
IEC/TC 59 was restructured to a subcommittee (SC59N) of TC 59 on November 3, 2021. SC59N approved unanimously the creation of 5 Working Groups and 1 Maintenance Team as follows:
      - (1) WG 1 - Reduction of particles  
To develop performance test method standards for reduction of particles by household and similar electrical air cleaning appliances. *No report.*
      - (2) WG 2 - Reduction of chemical gases and ozone  
To develop performance test method standards for reduction of chemical gases by household and similar electrical air cleaning appliances. *This WG is active but does not have a well-developed document yet.*
      - (3) WG 3 - Reduction of microorganisms  
To develop performance test method standards for reduction of microorganisms by household and similar electrical air cleaning appliances. Limonene and formaldehyde will be the challenge gases. *No report.*

(4) WG 4 - General characteristics

To develop guidelines for and management of Round Robin Testing, noise measurement (with TC 59/WG 2), consumer information on sensor communications, measurement of air cleaning appliances in automatic mode, and measurement of electrical power/energy. *No report.*

(5) WG 5 - Special types of air cleaners

To develop performance test method standards for special use air cleaning appliances, including fresh-air, air cleaning appliances, passenger vehicle portable air cleaning appliances and robotic/mobile air cleaning appliances. *No report.*

(6) Maintenance Team (MT) 6 - Maintenance of IEC 63086-1

To maintain IEC 63086-1, Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 1: General requirements. *No report.*

d) CEN/TC 15 6 "Ventilation for buildings" - *Paolo Tronville. No report.*

i) EN 16798-3:2017 "Energy performance of buildings - Ventilation for buildings - Part 3: For non-residential buildings - Performance requirements for ventilation and room air-conditioning systems (Modules M5-1, MS-4)" (Supersedes EN 13779:2007); *No report.*

ii) CEN/TR 16798-4:2017 "Energy performance of buildings - Ventilation for buildings - Part 4: Interpretation of the requirements in EN 16798-3 - For non-residential buildings - Performance requirements for ventilation and room-conditioning systems (Modules MS-1, MS-4)". *No report.*

(1) It contains information to support the correct understanding and use of EN 16798-3.

e) <http://www.cluster-essc.eu/> - The European Sensor-Systems Cluster (ESSC). *No report.*

f) AHAM – *Kevin Kwong*

i) AC-4 – *Kevin said that AHAM held a webinar on AC-4 meeting the week before which conflicted with some of the TC 2.3 webinar meetings.*

ii) AC-5 – *Kevin said that AC-5 was published earlier this year. He added that AHAM has a sub-working group on byproducts. This came about during the development of AC-4 and AC-5.*

g) CRAA - *Chris Muller said he had no new updates from China regarding new standards or development of new standards.*

10) New business. *No new business.*

11) Any other business. *No other business.*

12) Adjournment: *The meeting was adjourned at 1:39 PM.*