

TC 2.4 STANDARDS SUBCOMMITTEE

Agenda

Sunday 3:30 PM – 5:30 PM, June 28, 2026
JW Marriott Austin JW – 402/403 – L4

ASHRAE Value Statement – In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

PURPOSE:

The focus of the **Standards Subcommittee** is on the writing and continued maintenance of standards and guidelines written for HVAC&R air filtration. This group not only reviews ASHRAE standard and guidelines but also keeps an active reporting system of HVAC&R standards and guidelines produced by other organizations and other countries around the world.

This TC is Cognizant for the following standards

ANSI/ASHRAE Standard 52.2: Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size

ANSI/ASHRAE Standard 185.1: Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms.

This TC is CoCognizant with TC 7.3 lead for the following standard

ANSI/ASHRAE/ACCA 180: Standard Practice for Inspection and Maintenance of Commercial-Building HVAC Systems

1. CALL TO ORDER

- A. Introductions
- B. Chair's comments
 - i. [Looking at possibly moving to virtual meeting after ASHRAE](#)

2. UPDATE ON STANDARDS, GUIDELINES, AND MTGS WITHIN SCOPE OF TC 2.4

- A. SSPC 52.2 - Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size (Chrystal)
 - i. [Chrystal Jolliffe taking over as chair](#)

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- B. GPC 35P - Method for Determining the Energy Consumption Caused By Air-Cleaning and Filtration Devices (Jon Rajala)
 - i. Not much user feedback.
 - ii. Humidity control and its effects have raised questions
 - iii. Struggling to see path forward
 - iv. Discontinuing is an option

3. ASHRAE LIAISONS

- A. TC 2.3 Gaseous Air Contaminants and Gas Contaminant Removal Equipment (Kevin K)
 - i. SSPC 145.1 - Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Loose Granular Media
(1) Published 2024
 - ii. SSPC 145.2 - Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices
(1) Publishes 2025
 - iii. 145.4 working thru comments
- B. TC 2.9 Ultraviolet Air and Surface Treatment (Kathleen Owen)
 - i. SSPC 185.1 - Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms
(1)
 - ii. SSPC 185.2 - Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surfaces
(1) No Update
 - iii. SPC 185.3, Method of Testing In-Room Devices and Systems for Microorganism Removal or Inactivation in a Chamber.
(1) Published
 - iv. SPC 185.4P Method of Testing In-Room Ultraviolet Devices and Systems for Microbial Inactivation on Surfaces in a Test Room
(1) No update

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- v. ASHRAE 234P Method of Testing HVAC-duct mounted Devices and Systems and In-Room devices for Particle and Microorganism Removal or Inactivation in a Chamber with a Recirculating Duct System
 - (1) PPR 1 complete

- C. TC 5.4 Industrial Process Air Cleaning (Geoff Crosby)
 - i. SPC 199 - Method of Testing the Performance of Industrial Pulse Cleaned Dust Collectors
 - (1) Per Geoff Crosby the standard will be out for public review prior to Winter 2025 conference.

- D. TC 9.6 Healthcare Facilities
 - i. SSPC 170 - Ventilation of Health Care Facilities (Need liaison)
 - (1) Update per Jenny Berens.
 - (2) Mark Davidson has proposed creating a SSPC170 Filtration Subcommittee

- E. SSPC 62.1 - Ventilation for Acceptable (Commercial) Indoor Air Quality (Jon Rajala)
 - i. No new information.

- F. SSPC 62.2 - Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings (Jon Rajala)
 - i. Updated filter efficiency requirement to MERV11.
 - ii. Ready to send out for public review.

- G. SSPC 90.1 - Energy Standard for Buildings Except Low-Rise Residential Buildings
 - i. No update

- H. SSPC 90.2 – Energy Efficient Design of Low-Rise Residential Buildings ()
 - i. Addendum G requiring filter efficiency of MERV13.

- I. US TAG to ISO/TC 142 - Cleaning equipment for air and other gases (Evan Sparks)
 - i. Mike to forward updates via e-mail. Will meet in March

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J. SSPC 241 Control of Infectious Aerosols (Mike Corbat)

- i. Had not met as of this meeting

K. TC 4.10

- i. No update

L. TG2.RAST (Kevin)

- i. Draft is complete and needs final edit to get ready for public review. Target Winter 2025 meeting.
- ii. Still in forming stages

4. TC 7.3 lead for the following standard (Co-Cognizant)

A. ANSI/ASHRAE/ACCA 180: Standard Practice for Inspection and Maintenance of Commercial-Building HVAC Systems

- i. No update

5. OLD BUSINESS

A. MTG, GPC for implementing cleaning technologies in combination; collaboration between TCs 2.4, 2.3, 2.9 (Brian K)

- i. No update

6. NEW BUSINESS

A. Need liaison for ANSI/ASHRAE/ACCA 180 –

B. Need liaison for IEC & AHAM

C. Decarbonization Grants to look at system component life. \$2 million dollars being allocated. Looking for research ideas. (Palo Tronville)

D. Brian K – TC 9.13 TC 9.13 is reviewing the process for creating a Standards Project Committee (SPC) for a 62.x-type standard. They are conducting research on existing ISO and ANSI standards related to the proposed standard and compiling a list of relevant documents

E. ISO/TC 22/SC 34 - Road vehicles - Propulsion, powertrain and powertrain fluids (Paolo Tronville, Dan Miller)

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- i. WG3 – Air filters
- ii. Standard 12103 Part 3 – Published Standard
- iii. Urban loading aerosol being developed
- iv. Working on test method to utilize soot as an aerosol (95 nm to 105 nm)

IEC/TC59/SC/59N and ISO/TC 142/JWG11 Activities by K-J Choi

JWG 1

- **JWG 1 Reduction of Particles** (Stefan Schumacher)
 - IEC 63086 Part 2-2nd edition in preparation
- **SWG 1.1 Performance Change with System Loading**
 - Currently drafting of TS document

JWG 2

- **JWG 2 Determination of gas-phase pollutant reduction** (Dr. Atsuo Nozaki / Yoshio Okamoto)
 - Working on comments received for IEC_ISO/DIS 63086-2-2.
- **SWG 2.1 Reduction of Ozone** (Jinzhu Ma)
 - It was approved to move the test procedure for the Stationary Chamber into JWG 2 as an Annex.

JWG 3

- **JWG3 Reduction of Microorganisms** (Zhang Xiao)
 - Working of comments received for CD IEC 63086-2-3: Particular requirements for reduction of microorganisms.

JWG 4

- **SWG 4.1 Measurement of Acoustical Airborne Noise**
 - FDIS for IEC 60704-2-19, the standard for measuring acoustical noise by an air cleaner
- **SWG 4.2--Development of Guidelines for Managing Round Robin Testing**
- **SWG 4.4 Automatic mode** (Lead = Dan Miller)
 - Development of Technical Report
- **SWG 4.5** Method to measure energy

JWG 5; Special types of air cleaners

- **SWG 5.1 Fresh Air, Air Cleaners** (Jinhan Mo) IEC 63086-2-6
 - To develop performance test method standards for fresh-air, air cleaners
 - Discussion on NP document
- **SWG 5.2 Robotic/Mobile Air Cleaners** (Shanshan Li)
 - Proposed 6m x 4.5m x 3m (81 m³) chamber
 - Discussion on NP document

JMT 6; Joint Maintenance Team 6 (Wayne Morris)

- Joint Maintenance Team 6 is responsible for the IEC Part 1 Standard, 63086-1
- Discussion on comments received on IEC 63086-1

7. INFORMATION EXCHANGE

- A. AFS –
- B. CEN/TC 195 – Cleaning equipment for air and other gases (Paolo Tronville)
- C. EUROVENT (Paolo Tronville) – aging procedure with fine particles
- D. IEST – Institute of Environmental Sciences and Technology – no update
- E. AHRI 680 – Sanjeev and Chrystal. Working on updating

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- F. INDIA – International Nonwovens Development Association – FiltXpo in Minneapolis, MN October 28-29 2026 (AFS is co-sponsoring)
- G. NAFA
 - i. 2026 Annual Convention in Palm Springs, CA October 13-15
- H. IAQA Meetings (Jeffrey Siegel)
 - Happened in Lexington Ky May-June 25
- I. FILTECH Expo and Conference
 - i. Jun 30- Jul 2, 2026 Cologne, Germany (overlaps with ASHRAE)
- J. Indoor Air Conference (ISIAQ)
 - i.
- K. American Association for Aerosol Research
 - i. 10-21 – 10/25 Alb, NM
- L. International Aerosol Conference
 - i. 2026 China– Sept (1st week)
- M. Asia Filtration Show / FILTREX
 - i. TBD
- N. World Filtration Congress – Korea Sept 2028
- O. World Congress of Particle Technology
 - i. No info
- P. Korean Filtration Society 2025 conference is scheduled Oct 12 and 13, 2026 at Hanyang University
- Q. World Filtration Institute (Jenny) – December 8-9 2026 Online
- R. Healthy Buildings
- S. ANEX Taiwan

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