

AGENDA
SSPC 62.1 – Ventilation for Acceptable Indoor Air Quality
January 2017, Las Vegas, NV

FRIDAY, January 27, 2017

All times are PST

SSPC 62.1 IAQ Guideline Subcommittee

Friday (1/27) 8:00 am - 12:00 pm, Room: Tribune, Floor: Pool Level

SSPC 62.1 Administration Subcommittee

Friday (1/27) 1:00 pm - 3:00 pm, Room: Patrician, Floor: Pool Level

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Forum Ballroom 20, Floor: Pool Level

SSPC 62.1 Research and Education Subcommittee

Friday (1/27) 1:00 pm - 3:00 pm, Room: Tribune, Floor: Pool Level

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Forum Ballroom 21, Floor: Pool Level

SSPC 62.1 Buildings, Systems and Equipment

Friday (1/27) 3:00 pm - 5:00 pm, Room: Tribune, Floor: Pool Level

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Tribune, Floor: Pool Level

SSPC 62.1 Ventilation Subcommittee

Friday (1/27) 3:00 pm - 5:00 pm, Room: Patrician, Floor: Pool Level

Saturday (1/28) 1:00 pm - 3:00 pm, Patrician, Floor: Pool Level

SATURDAY, January 28, 2017

SSPC 62.1 Ventilation for Acceptable Indoor Air Quality

Saturday (1/28) 8:00 am - 12:00 pm, Room: Forum Ballroom 20, Floor: Pool Level

8:00 Call to Order Bohanon
ASHRAE Code of Ethics <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

Introductions

Review of Agenda Bohanon

Approval of Minutes: Approve the June 25-26, 2016 meeting minutes from St. Louis, MO.
(Posted on the Members Only section of the SSPC 62.1 website.)

Staff Report: Weber

Chair's Report:

Bohanon

Voting Roster (23 PCVMs): Bohanon, Habibi, Aguilar (ASA), Berlin, Brown, Buttner, Damiano, Darwich, Doppel, Gress (ICC), Hafendorfer, Ho, Horner, Howard (SMACNA), Isenbeck, Muller, Petrillo-Groh (AHRI), Sekhar, Smith, Stanke, Stewart, Thomann, and Wiley

Committee Organizational Structure:

Intervening Letter Ballots: The following is a list of the letter ballots that followed the St. Louis meeting in June 2016.

- 62.1a (DA61 – Drain Pans) - Letter ballot to approve the 1st PPR closed August 1, 2016. APPROVED.
- CM 62.1-15-12-0003/001 (Mark Kohler) – Letter ballot to approve the response to the proposed change closed July 22, 2016. Proposed change rejected. APPROVED.
- 62.2b (DA42 – Simplified VRP Alternate Method) – Letter ballot to approve the 2nd PPR closed July 27, 2016. APPROVED.
- RP-1720 and RP-1780 Representatives – Letter ballot to approve Chris Muller as the representative to RP-1720 (*Validation of Gas-Phase Air-Cleaner Performance Test Method* (Standard 145.2) *by Laboratory Testing of Commercially Available Filtration Devices*) and Harris Sheinman as the representative to RP-1780 (*Test Method to Evaluate Cross-contamination of Gaseous Contaminant within Total Energy Recovery Devices*) closed August 5, 2016. APPROVED.
- Seminar for Las Vegas 2017 - Natural Ventilation for the 21st Century. Letter ballot closed August 12, 2016. APPROVED.
- Approve the response to the request for an official interpretation of Standard 62.1-2016 from Stephen Little. Letter ballot closed October 19, 2016. APPROVED.
- Approve the 62.1-2016 User's Manual and 62MZCalc spreadsheets. Letter ballot closed November 28, 2016. APPROVED.

Addenda Status (62.1-2016):

- 62.1a (DA61 – Drain Pans) – 1st PPR Closed October 2, 2016: 3 comments from 1 commenter.
- 62.1b (DA42 – Simplified VRP Alternate Method) – 2nd PPR closed October 17, 2016: 7 comments from 2 commenters. NOTE: Previously Addendum b to 62.1-2013 - 1st PPR closed October 5, 2014: 6 comments from 5 commenters. Responses to comments approved in Chicago in January 2015. Responses sent to commenters. There were 2 unresolved comments (0001/001 and 0005/002).

62.1-2016 Update: The 2016 edition of Standard 62.1 includes Addenda a, c, d, e, f, g, h, i, j, k, p, q, r, and s to 62.1-2013 and was published in March 2016. A Word version of the standard was distributed and is also available on the Members Only section of the 62.1 website.

Official Interpretation Requests:

- 62.1-2016 Stephen Little (Kitchenette vs. Break Room) – COMPLETE (published as IC 62.1-2016-1).

- 62.1-2013 Trevor Uitvlugt (DCV and the use of CO₂ sensors in return air ductwork at the system level)

Unofficial Interpretation Request: Since the St. Louis meeting

- 62.1-2016 Jack Michonski (Breathing Zone Outdoor Airflow) - COMPLETE.
- 62.1-2016 Melody Wang (VRF System) - COMPLETE
- 62.1-2007 Claudia Mattison (Vbz no less than the building component in the DCV zone) - COMPLETE
- 62.1-2010 Luis Leal (Regional Air Quality-Brazil) - COMPLETE
- 62.1-2016 Luis Garcia (Separation Distances – outdoor air intakes and exhaust outlets) – COMPLETE
- 62.1-2007 Theofilos Lagonikos (62MZCalc spreadsheet)
- 62.1-2016 Andrew Crowley (Refrigerated spaces)
- 62.1-2010 William Higman (Beauty salons) - COMPLETE

CM Proposals:

- Mark Kohler (CM 62.1-15-12-0003/001) - Drain pans for cooling coils. Committee response approved by letter ballot on July 22, 2016. Proposed change rejected. Response sent to Mr. Kohler on August 12, 2016. COMPLETE.

Draft Addenda (62.1-2016): None at this time.

Potential Addenda:

- Personal ventilation systems
- Tighten requirements throughout
- Building controls and standard sequences of operation
- Adjust area component ventilation rates in light of improved building materials
- Account for emission rate decay as buildings age
- Modifications appropriate for areas outside the US and Europe
- Additional alternate compliance paths
- Additional consideration for humidity limits
- DCV improvements

62.1-2016 User’s Manual Update: Work statement was approved by SSPC 62.1 in Chicago in January 2015. SPLS approved a user’s manual for 62.1-2016 (work statement) and the project monitoring subcommittee (PMS) by letter ballot on March 30, 2015 and Standards Committee approved the user’s manual by letter ballot on April 21, 2015. Approved by Special Projects in Atlanta in June 2015. The bid period for the 62.1 User’s Manual project closed on September 15, 2015. Two bids were received for the project. The PMS reviewed the bids and recommended a contractor for the project. That contractor (NORESKO) was approved by Standards Committee and Special Projects Subcommittee in Orlando 2016. The contract has been signed and NORESKO has been given the go ahead to begin work on the project. The PMS and the contractor held a kick off meeting on April 19, 2016 to review the timeline and outline.

The PMS met in conjunction with the SSPC 62.1 Research and Education Subcommittee on Saturday in St. Louis in June 2016. The contractor, NORESKO, also attended to provide an

update and present some changes to the user's manual. Contractor requested suggestions for updating or improving the calculation spreadsheet that accompanies the user's manual (62MZCalc).

The PMS held a conference call on September 29, 2016 to get an update from the contractor as the deadline for the final draft approached. A 95% complete draft of the 2016 User's Manual was distributed to the full SSPC 62.1 on September 30, 2016 for review and input with an October 14, 2016 deadline. On October 6, 2016 the 62MZCalc spreadsheets were also distributed with the same deadline for input. The PMS held another conference call on October 20, 2016. Deadline for final deliverables was November 4, 2016. Final draft submitted on October 31, 2016. Final draft was approved by the PMS by letter ballot on November 14, 2016. Final draft approved by SSPC 62.1 by letter ballot on November 28, 2016. User's Manual is now published and available in the ASHRAE bookstore.

PMS members:

- Wayne Thomann, PMS Chair
- John Dunlop
- Chandra Sekhar
- Len Damiano
- Josiah Wiley
- Jeff Smith

Other Items:

- Waller Clements – Member of SSPC 62.1 passed away July 2016.
- Open Session: What Challenges Do You Face in Using the IAQ Procedure? Sunday, January 29, 2017, 1 – 2 p.m. during the SSPC 62.1 meeting.

8:30-9:00	IAQ Guideline Report and Plans	Isenbeck
9:00-9:45	Research and Education Subcommittee Report and Plans	Thomann
9:45	Break	
10:00-10:30	Ventilation Subcommittee Report and Plans	Ho
10:30-11:00	Building, Systems, and Equipment Subcommittee Report and Plans	Hafendorfer
11:00-11:30	Administration Subcommittee Report and Plans	Darwich
11:30-11:45	Public Comment	
11:45-12:00	Closing Comments	Bohanon
12:00	Recess (until 1:00 p.m. Sunday)	

SSPC 62.1 Administration Subcommittee

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Forum Ballroom 20, Floor: Pool Level

SSPC 62.1 Research and Education Subcommittee

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Forum Ballroom 21, Floor: Pool Level

SSPC 62.1 Buildings, Systems and Equipment

Saturday (1/28) 1:00 pm - 3:00 pm, Room: Tribune, Floor: Pool Level

SSPC 62.1 Ventilation Subcommittee

Saturday (1/28) 1:00 pm - 3:00 pm, Patrician, Floor: Pool Level

Sunday, January 28, 2017

1:00 pm – 7:00 pm Local Time

SSPC 62.1 Ventilation for Acceptable Indoor Air Quality

Sunday (1/29) 1:00 pm - 7:00 pm, Room: Forum Ballroom 20, Floor: Pool Level

1:00 What Challenges Do You Face in Using the IAQ Procedure? – **Forum SSPC**

2:00 Call to Order Bohanon

- ASHRAE Code of Ethics (<https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>)
- Introductions
- **Voting Roster (23 PCVMs):** Bohanon, Habibi, Aguilar (ASA), Berlin, Brown, Buttner, Damiano, Darwich, Doppel, Gress (ICC), Hafendorfer, Ho, Horner, Howard (SMACNA), Isenbeck, Muller, Petrillo-Groh (AHRI), Sekhar, Smith, Stanke, Stewart, Thomann, and Wiley
- Bias/Conflict Notebook/Sign-in
- Review of Agenda (Additions/Deletions)

2:15 Review of Saturday Actions Bohanon

2:45 Liaison Reports

- SPLS Dunlap
- TC 2.1, *Physiology and Human Environment* Olsen
- TC2.3, *Gaseous Air Contaminants and Gas Contaminant Removal Equipment* Muller
- TC2.4, *Particulate Air Contaminants and Particulate Contaminant Removal Equipment* Seyffer
- TC 2.9, *Ultraviolet Air and Surface Treatment* Hafendorfer
- TC5.5, *Air to Air Energy Recovery* Rice
- TC7.9, *Commissioning* Brueckner
- TC9.10, *Laboratory Systems* Ho
- SSPC 55, *Thermal Environmental Conditions for Human Occupancy* Olsen
- SSPC 62.2 Agopian, Gress,
- SSPC 90.1 Habibi, Howard
- SSPC 154 *Ventilation for Commercial Cooking Operations* Gress
- SSPC 188, *Risk Management of Legionella in Building Water Systems* Stewart
- SSPC 189 Gress
- SPC 217 Howard
- MTG Air Change Rates Darwich
- MTG Impact of ASHRAE Standards and Technology on Energy Savings/Performance Muller

•	MTG Indoor Swimming Pool Air Quality and Evaporation	Olsen
•	PC Chair's Meeting	Habibi
3:15	Public Comment	
3:30	Break	
3:45	Liaison Report and Discussion	
•	SSPC 170, <i>Ventilation of Health Care Facilities</i>	Darwich
4:15	Presentation and Discussion of Animal Facilities	Darwich
4:45	IAQ Guideline Report	Isenbeck
5:00	Research and Education Subcommittee Report	Thomann
5:15	Admin Subcommittee Report	Habibi
5:30	Ventilation Subcommittee Report	Ho
5:45	Systems and Equipment Subcommittee Report	Hafendorfer
6:00	Actions from Subcommittees for Voting (anticipate voting by letter ballot)	Bohanon
6:15	Other Business	Bohanon
6:30	Adjournment	