



International Code Council IECC Commercial Consensus Committee Draft Meeting Minutes

Meeting Date: May 11, 2022

Committee Chair: Duane Jonlin
Committee Vice Chair: Emily Hoffman

1. Call to order. The meeting was called to order at approx. 2:31 pm Eastern Time.
2. Roll Call. Chair Duane Jonlin, Vice-Chair Emily Hoffman, Ali Alaswadi, John Bade, Jack Bailey, Richard Burton, Payam Bozorgchami, Diana Burk, Chris Clausing, Thomas Culp, John Dalzell, Greg Eades, Charles Eley, Drake Erbe, Anthony Floyd, David Goldstein, Glenn Heinmiller (alt), Bryan Holland, Greg Johnson, Michael Jouaneh, Andrew Klein, Vladimir Kochkin, Emily Lorenz, Hope Medina, Don Mock, Melissa Moseley, Susan Musngi, Dan Nall, Laura Petrillo-Groh, Kevin Rose, Michael Rosenberg (alt), Steve Rosenstock, Robert Ross, Thomas Schultz, Blake Shelide, Michael Tillou, Michael Waite, Jeremy Williams, Zepherinus Church Norbert

Committee members in attendance: (37 in attendance 8 absent)

Not in attendance: Danielle Ashley, Matt Belcher, Scott Brooks, Gina Bocra (alt), Paula Cino (alt), Kim Cheslak (alt), Stephen Harris, Adrian Jones, Vincent Martinez (alt), Christopher Perry (alt), Darren Port, Amin Tohmaz, Lauren Urbanek (alt), James Yeoman, Amber Wood (alt)

ICC Staff in attendance:

Kris Stenger, Mike Pfeiffer, Ed Wirtshoreck, Ryan Colker, Jerica Ashley

3. Approval of the Minutes from 5/4-Motion to approve by Emily Lorenz. Second by John Bade. Approved unanimously.
4. Approval of Agenda-motion by Anthony Floyd. Second by Don Mock. John Bade makes motion to move CEPI-121-21 ahead of CEPI-122-21. Approved unanimously
5. Progress indicators-Emily Hoffman
6. Administrative items-none at this time
7. Action Items
 - a) Code Change Proposals
 - 1) CEPI-140-21(EV energy monitoring) proponent Sean Denniston. Introduced by Michael Jouaneh, chair of Electrical Power, Lighting, and Renewables subcommittee. The motion by the subcommittee was to

- approve as modified. Reason: Definition as no longer needed and electrical vehicle charging monitoring is needed separate from other monitored loads. Motion to approve as modified passes 24-7.
- 2) CEPI-10-21 (AC output UPS system) proponent Nicholas O'Neil. Introduced by Michael Jouaneh, chair of Electrical Power, Lighting, and Renewables subcommittee. The motion by the subcommittee was to disapprove. Reason: Proposal creates an above code stringency about requirements for UPS in data centers or other undefined occupancies as well as concerns with the definitions. More research is necessary related to DOE pre-emption. Motion to disapprove passes 23-4-3.
 - 3) CEPI-168-21 (Display lighting) proponent Glenn Heinmiller. Introduced by Michael Jouaneh, chair of Electrical Power, Lighting, and Renewables subcommittee. The motion by the subcommittee was to approve as modified. Reason: This proposal simplifies and clarifies requirements by eliminating redundancy. Motion to approve as modified passes 32-0.
 - 4) CEPI-211-21 (Performance Mechanical Ventilation) proponent Anurag Goel represented by Mike Moore. Introduced by Greg Eades, chair of Modeling and Metrics subcommittee. The motion by the subcommittee is approve as modified. Reason: This CCP allows proposed ventilation to be modeled as designed and baseline ventilation to reflect IMC ventilation requirements. Motion to approve as modified passes 28-0-1.
 - 5) CEPI-114-21 (Energy recovery, exception 8) proponent Glory O'Brien. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is for disapproval. Reason: Proposal is not written in appropriate code language. Proponent will be invited to 90.1 working group to address this similar issue in 90.1. Motion to disapprove passes 32-0.
 - 6) CEPI-123-21 (Bathroom Intermittent Exhaust Control) proponent Glory O'Brien. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve as modified. Motion to table until June 8th meeting by Thomas Schultz with a second from Charles Eley. Motion to table passes 26-6.
 - 7) CEPI-121-21 (Fan Efficacy Table) proponent Mike Moore. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve as modified. Reason: Clarifies the code and moves the footnote to show it applies to all the issues. Motion to approve as modified passes 30-2.
 - 8) CEPI-122-21 (Low capacity fans) proponent Emily Toto. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to disapprove. Reason: based on subcommittee action on CEPI-121. Motion to disapprove passes 22-4-2.

8. 3 Minutes of Fame-Don Mock

- 9) CEPI-118-21 (Elevator dampers) proponent Emily Toto. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve. Reason: Based on ASHRAE 90.1-2019 Addendum m. Elevator shaft vents are no longer required by most model codes, but many machine-room-less elevator manufacturers insist on a vent to help maintain shaft temperatures that may rise due to heat

produced by the cab-mounted elevator machinery. These vents are not likely necessary or even useful for temperature control in most applications due to the heat losses to the conditioned spaces adjacent to the elevator shaft that should result in acceptable shaft temperatures. However, they are being used nonetheless. These vents are typically open year-round. This proposal requires that if such vents are installed, they are controlled to only open based on a thermostatic setting. Motion to approve passes 29-0.

- 10) CEPI-72-21 (Air Curtain) proponent Amanda Hickman. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve as modified. Reason: The primary reason for this proposal is to make clarifications regarding air curtain unit requirements, consistent with provisions for air curtain units in a parallel proposal for ASHRAE 90.1-2022 that has undergone public review without comments (ASHRAE 90.1-2019 addendum ao). Motion to approve as modified passes 29-0.
- 11) CEPI-124-21 (Ceiling fan energy index) proponent Amanda Hickman. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve as modified. Reason: matches current federal regulations. Motion to approve as modified passes 27-0-1.
- 12) CEPI-77-21(Boiler High Capacity Space Heating Gas) proponent Emily Toto. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve as modified. Further modification proposed by Greg Johnson with second from John Bade. Modification passes unanimously. Reason: his proposal adds an implementation of condensing boilers for new construction to achieve condensing-level efficiency (i.e., 90% Et) for large boiler systems (i.e., between 1 million and 10 million Btuh), where the proper design considerations are included so that the condensing boilers will operate properly. To ensure condensing occurs, requirements are added to ensure boiler entering water temperature is designed to be low, and able to be maintained low, by minimizing recirculation of hot-water supply into the return. Motion to approve as modified passes 29-0.
- 13) CEPI-128-21 (Water Heater Efficiency High Capacity) proponent Emily Toto. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee to approve as modified. Motion to table until June 8 by Greg Johnson with a second from Emily Lorenz. Motion passes unanimously.
- 14) CEPI-85-21 (Service Water Pressure-Booster) proponent Nicholas O'Neil. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve. Reason: The IECC does not have any requirements over pressure boost system operation currently. ASHRAE has had these requirements in place since 90.1-2010 and found them to be a cost-effective requirement for new buildings. Many modern pressure boost systems already comply with ASHRAE standards and have the sensor controls on-board, eliminating the need for a field mounted remote pressure sensor. Furthermore, the energy savings from variable speed pressure boost systems can be

substantial, ranging from 20%- 50% (depending on the type of pressure control method). Motion to approve passes 30-0-1.

- 15) CECPI-6-21 (Parking Garage Ventilation) proponent Electrical Power, Lighting, and Renewables Subcommittee. Introduced by John Bade, chair of HVACR & water heating subcommittee. Motion by the subcommittee is to approve. Reason:the current requirements for garage ventilation are lenient. The change to C403.7.2 are based on addendum d to ASHRAE 90.1-2019 for parking garage ventilation. This proposal increases stringency for these systems, with additional requirements for pollutant sensors and fan variable speed drives that SSPC 90.1 has determined to be cost effective. Motion to approve as submitted passes 28-0-1.

9. Subcommittee Reports

- a) Envelope and Embodied Energy-Tom Culp chair of subcommittee-on pace to complete their reviews at next meeting
- b) Electrical Power, Lighting and Renewables-Michael Jouaneh chair of subcommittee- Have added two additional meetings in ensure completion by the end of the month. Plan to continue to meet following public input work for potential proposals to consider for public comment draft.
- c) HVACR & Water Heating-John Bade chair of subcommittee-22 proposals remaining with two meetings left. Will need to add an extra meeting most likely
- d) Economics, Modeling, Whole Building Metrics-Charles Eley vice chair of the subcommittee-working groups are moving combined proposals through. Hoping to keep pace with an early June timeline.
- e) Construction Cost & LCC Advisory Group-Michael Tillou chair of advisory committee-look to bring forward to an upcoming meeting of the consensus committee for consideration optional criteria to document social cost of carbon.

10. Other Business-none at this time

11. Upcoming meetings. The next meeting will be Wednesday, May 18 at 2 pm Eastern Time

12. Adjourn. The meeting was adjourned at approx. 4:00 pm Eastern time.

FOR FURTHER IECC Commercial INFORMATION BE SURE TO VISIT THE ICC WEBSITE:
[IECC Commercial Website](#)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

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