



International Code Council IECC Commercial Consensus Committee Draft Meeting Minutes

Meeting Date: May 25, 2022

Committee Chair: Duane Jonlin
Committee Vice Chair: Emily Hoffman

1. Call to order. The meeting was called to order at approx. 2:01 pm Eastern Time.
2. Roll Call. Chair Duane Jonlin, Vice-Chair Emily Hoffman, John Bade, Jack Bailey, Matt Belcher, Scott Brooks, Richard Burton, Payam Bozorgchami, Diana Burk, Zepherinus Church Norbert, Chris Clausing, Thomas Culp, John Dalzell, Drake Erbe, Anthony Floyd, David Goldstein, Stephen Harris, Glenn Heinmiller (alt), Bryan Holland, Greg Johnson, Adrian Jones, Michael Jouaneh, Andrew Klein, Emily Lorenz, Hope Medina, Don Mock, Melissa Moseley, Dan Nall, Christopher Perry (alt), Darren Port, Kevin Rose, Michael Rosenberg (alt), Steve Rosenstock, Robert Ross, Thomas Schultz, Blake Shelide, Michael Tillou, Michael Waite, Jeremy Williams, James Yeoman

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

Not in attendance: Ali Alaswadi, Danielle Ashley, Gina Bocra (alt), Paula Cino (alt), Kim Cheslak (alt), Greg Eades, Charles Eley, Vladimir Kochkin, Vincent Martinez (alt), Susan Musngi, Laura Petrillo-Groh, Amin Tohmaz, Lauren Urbanek (alt), Amber Wood (alt)

ICC Staff in attendance:

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

3. Approval of the Minutes from 5/18-Motion to approve by Michael Jouaneh. Second by Steve Rosenstock. Approved unanimously.
4. Approval of Agenda-items CEPI-178-21, CEPI-179-21, CEPI-182-21, CEPI-183-21 have been withdrawn. Motion to approve by Jim Yeoman. Second Emily Lorenz. Approved unanimously
5. Progress indicators-Emily Hoffman
6. Administrative items-staff covered CP7 and code of ethics items
7. Construction Cost & LCC Advisory Group-Michael Tillou chair of advisory committee-provided a presentation of the Advisory Groups consensus on social cost of carbon. If a proponent wishes to provide an optional cost effectiveness analysis using social cost of carbon the advisory group suggested particular parameters be used in the analysis. Following the IWG

(Interagency Working Group, White House) 2021 Social Cost of Carbon value of 3% average (\$51/ton CO₂e). Including electricity operational carbon to add \$0.028/kWh to the cost of electricity (based on nation EIA fuel mix projections, will vary based on regional electricity fuel mix) as well as fossil fuel operational carbon adding \$0.555/therm to the cost of fossil fuels. Motion to accept this recommendation of the advisory group by Michael Tillou. Second by Greg Johnson. Motion passes 30-2-1.

8. Three minutes of fame- Greg Johnson

9. Action Items

a) Code Change Proposals

- 1) CEPI-184-21 (Lighting decorative allowance) proponent Jon McHugh. Introduction by Michael Jouaneh, chair of Electrical Power, Lighting, and Renewables subcommittee. Motion by the subcommittee is disapproval based on CECPI-7-21. Explanatory presentations provided by Michael Jouaneh and Jonathan McHugh. Reason: This proposal will reduce initial cost and cost over the life of the system and provide sufficient decorative lighting power to provide for effective lighting designs while mitigating energy waste. Motion to disapprove passes 26-6.
- 2) CEPI-180-21(Lighting decorative allowance) proponent Mike Kennedy. Introduction by Michael Jouaneh, chair of Electrical Power, Lighting, and Renewables subcommittee. Motion by the subcommittee is for disapproval. Reason: Based on prior action of approving CEPI-182 and concerns about the viability of the proposed values. Motion to disapprove passes 27-2.
- 3) CEPI-83-21 (Clean Water Pumps) proponent Nicholas O'Neil. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for approved as modified. Further modification to proposal introduced based upon discussions with proponent, DOE, and subcommittee chair. Motion to accept further modifications by John Bade with a second by Dan Nall Reason: Simplified version preferred by the committee. The methodology, requirements, and exceptions contained in this proposal mirror what is already included in ASHRAE 90.1-2019 and what is required by DOE to demonstrate compliance. Listing them in the IECC will provide designers with the necessary information on how to calculate PEI and which pumping systems are required to comply. Motion to approve as modified passes 26-3-3.
- 4) CEPI-145-21 (Clean Water Pumps) proponent Steve Rosenstock. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for disapproval. Reason: Based on subcommittee action on CEPI-83. Motion for disapproval passes 29-1-2.
- 5) CEPI-119-21 (Fan Power Limits) proponent John Bade. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for approved as modified. Further editorial modifications proposed by Greg Johnson. These modifications were added to the motion to approve as modified with a second from Greg Johnson. Reason: The fan power limits were one of the most successful energy savings addenda in the IECC. However, they have not been updated in a decade. This proposal provides some increase in stringency,

- but more importantly, it addresses flaws in the original to improve both enforceability and clarity. Motion to approve as modified passes 28-3-1.
- 6) CEPI-127 (Water Heating Efficiency Table) proponent Mike Kennedy. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for approved as modified. Reason: The current IECC Table C404.2 uses Energy Factor (EF) which DOE replaced with the Universal Energy Factor (UEF) in 2017. New equipment are ratings are published in UEF and EF is generally not published. As such this table needs to be changed. The proposed table C404.2 updates the values to the current DOE standards requirements. It is taken from language proposed for the Washington State Energy Code. Alternate approaches would include deleting the table entirely or adopting a table similar to 90.1. Most of the values in Table C404.2 are based upon national standards of one sort and another. As such most equipment will comply whether the table is in the code or not. Simply eliminating the table is an option and would keep code officials from worrying about water heater efficiency. Or a table similar to that adopted by 90.1 could be used. It lists all the equipment categories but for standards equipment simply states that it's regulated by DOE standards. Motion to approve as modified passes 28-0-2
 - 7) CEPI-126-21 (Water Heating efficiency) proponent Steve Rosenstock. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for disapproval. Reason: based on subcommittee action on CEPI-127. Motion to disapprove passes 26-1-2.
 - 8) CEPI-129-21 (Service WH for R-1 & R-2) proponent Evan Green. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for disapproval. Reason: This proposal has language issues and leads to federal preemption issues. Motion to table until June 8th meeting by Kevin Rose. Second by Diana Burk. Motion to table passes 18-12
 - 9) CEPI-130-21 (Service water heating insulation) proponent Gary Klein. Introduction by John Bade, chair of HVACR and water heating subcommittee. Motion by the subcommittee is for approved as modified. Reason: The existing pipe insulation thickness requirements for service water heating piping come from Table C403.12.3, which was developed primarily for space heating. The major change in this proposal is to include a pipe insulation wall thickness table in the service water heating section of the IECC. Having a separate table will allow requirements for service water heating piping insulation to be based on typical service water heating operation and operating temperatures, which may be very different from those for mechanical systems. Motion to approve as modified passes 31-0-1.

10. Subcommittee Reports

- a) Envelope and Embodied Energy-Emily Lorenz, vice chair of subcommittee-completed their work at last meeting.

- b) Electrical Power, Lighting and Renewables-Michael Jouaneh chair of subcommittee- finished up the recommendations on public input. Will continue to meet to work on committee proposals.
- c) HVACR & Water Heating-John Bade chair of subcommittee-16 proposals remaining with two meetings left.
- d) Economics, Modeling, Whole Building Metrics-Emily Hoffman-4 items remaining while working through withdrawals based on previous committee proposals.
- e) Construction Cost & LCC Advisory Group-Michael Tillou chair of advisory committee-have completed their current assignments with no future meetings scheduled at this time.

11. 3 minutes of fame- Jeremy Williams

12. Other Business-none at this time

13. Upcoming meetings. The next meeting will be Wednesday, June 8 at 2 pm Eastern Time

14. Adjourn. The meeting was adjourned at approx. 4:17 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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