



International Code Council IECC Commercial Consensus Committee Draft Meeting Minutes

Meeting Date: March 8, 2023

Committee Chair: Duane Jonlin

Committee Vice Chair: Emily Hoffman

1. Call to order by Vice Chair Emily Hoffman. The meeting was called to order at approx. 2:03 pm Eastern Time.

2. Roll Call. Chair Duane Jonlin, Vice-Chair Emily Hoffman, John Bade, Jack Bailey, Scott Brooks, Matt Belcher, Diana Burk, Richard Burton, Payam Bozorgchami, Zepherinus Church Norbert, Chris Clausing, Shannon Corcoran, Jay Crandell, Thomas Culp, Greg Eades, Drake Erbe, Anthony Floyd, David Goldstein, Stephen Harris, Bryan Holland, Greg Johnson, Andrew Klein, Vladimir Kochkin, Emily Lorenz, Vincent Martinez (alt), Hope Medina, Michele Melley, Don Mock, Susan Musngi, Dan Nall, Christopher Perry (alt), Darren Port, Douglas Powell (alt), Michael Rosenberg (alt), Steve Rosenstock, Blake Shelide, Michael Tillou, Michael Waite, Jeremy Williams, James Yeoman

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

Not in attendance: Gina Bocra (alt), Paula Cino (alt), Amber Wood (alt), Kim Cheslak (alt), Ali Alaswadi, John Dalzell, Charles Eley, Laura Petrillo-Groh, Glenn Heinmiller (alt), Michael Jouaneh, Melissa Moseley, Kevin Rose, Robert Ross, Amin Tohmaz, Lauren Urbanek (alt),

ICC Staff in attendance:

Kris Stenger, Mike Pfeiffer, Ed Wirtschoreck, Beth Tubbs, Jason Toves, Jerica Stacey

3. Approval of the Minutes from February 22-motion to approve by Don Mock with a second from James Yeomans. Approved 30 yes 0 no 2 abstain

4. Approval of Agenda- Request to move EV public comments to front of the agenda by Jack Bailey. Motion to approve agenda as modified by Emily Lorenz with a second from Steve Rosenstock. Approved unanimously.

5. Administrative items-none at this time

6. Action Items

a) CEPC1-4-22, CEPC1-5-22, CEPC1-15-22, CEPC1-6-22, CEPC1-16-22 public comments in support of EV infrastructure proposals

- a) CED1-40-22 (EV ready space requirements modifications) Proponent Ted Williams. Introduction by Jack Bailey, vice chair of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 27-5. Reason: Committee desires to keep requirements for EV Charging including the number of spaces in the body of the standard based on prior actions.
- b) CED1-38-22 (EV charging infrastructure in appendix) Proponent Greg Johnson. Introduction by Jack Bailey, vice chair of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 26-7. Reason: Committee desires to keep requirements for EV Charging including the number of spaces in the body of the standard based on prior actions.
- c) CED1-39-22 (EV ready requirements) Proponent Bryan Holland. Introduction by Jack Bailey, vice chair of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to approve. Vote to approve passes 29-2-3. Reason: Provides important technical revisions, clarity and more enforceable language for EV charging.
- d) CED1-16-22 (EV power transfer) Proponent Sean Denniston. Introduction by Jack Bailey, vice chair of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 29-0-2. Reason: based on action on CED1-39-22.
- e) CED1-41-22 (EV charging) Proponent Alex Smith. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 32-2. Reason: Maintaining significant EV charging requirements are needed in R2 occupancies to support GHG reduction efforts. Possible conflicts with residential code.
- f) CED1-43-22 (EV charging requirements) Proponent Amy Martino. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 30-2. Reason: Maintaining a 3 ft. requirement is critical to providing future connections and this does not improve the technical requirements of the first draft.
- g) CED1-42-22 (EV charging) Proponent Charles Eley. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 26-3-3. Reason: The subcommittee felt that it was important to keep the EV Ready column to be consistent with local policies requiring EV Ready installations and to allow changes in values.
- h) CED1-45-22 (EV ready requirements) Proponent Sam Bauer. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to approve. Vote to approve passes 30-3-2. Reason: Proposal would harmonize the requirements for B, E, I and M and S-2 and reduces the long-term costs associated with EV charging.

3 minutes of fame-Stephen Harris

- i) CED1-44-22 (EV charging level 3 Group M) Proponent Andrew Poliakoff. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable

subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 28-2-3. Reason: The proposal is not substantiated with a cost effectiveness study showing the offset of DCFC to the table percentages for EVSE and EV-Ready Spaces. There were also concerns about proposed calculations.

j) CED1-46-22 (EV charging performance) Proponent Don Chandler. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 32-1-1. Reason: based on previous action on CED1-39-22.

k) CED1-47-22 (EV interoperability) Proponent Sam Bauer. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 30-1-1. Reason: This is not an ANSI Standard, and there were concerns about other protocols that may be used, and about missing sections not being referenced.

l) CED1-48-22 (EV circuit capacity management) Proponent Emily Kelly. Introduction by Steven Rosenstock, voting member of the Electrical power, lighting and renewable subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 32-1. Reason: based on previous action on CED1-39-22.

m) CECD1-11-22 (low slope roof definition) Proponent IECC Envelope subcommittee. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 30-0-2. Reason: The definition of slopes, with regard to roofing, is clarified.

n) CED1-145-22 (C503.2.1 remove redundant sentence) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 31-0-1. Reason: Removes redundant text and clarifies requirements for item 1.

o) CED1-146-22 (roof alterations) Proponent Jeff Mang. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 34-0. Reason: Clarifies requirements for roof replacements where insulation is located entirely above deck.

p) CED1-99-22 (Equipment building thermal envelope exception) Proponent Sumit Sunthakar. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 30-2-2. Reason: - This proposal as modified addresses the types of heating systems available for these types of buildings.

q) CED1-100-22 (Mass walls) Proponent Martha Vangeem. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 34-0. Reason: This clarifies the text and section numbers for mass walls and floors systems available for these types of buildings.

r) CED1-105-22 (Relocate mass wall criteria) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove.

Vote to disapprove passes 34-0. Reason: Disapproved based on action taken on CED1-100 which resolved the concern.

s) CED1-101-22 (Frame wall factor consistency) Proponent Jeff Bradley. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 22-5-6. Reason: The proposal contains an arbitrary assignment to the modification of U-values that were derived from a process that used an energy savings and cost-effectiveness analyses. This proposal also does not contain recommendations to also correlate the related R-values in Table C402.1.3 even though the proposal modifies the related U-factors to Table C402.1.2. Further, the IECC should not unfairly provide an advantage to competing materials.

t) CED1-143-22 (Frame wall single target) Proponent Jeff Bradley. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 21-7-6. Reason: It was determined that the existing language “same as proposal” was sufficient and that the proposal did not offer an improvement. In addition, the language was felt to be confusing as the use of two sentences offered greater confusion. The net result of this proposal also provided an advantage to a competing material because the list of wall types in the proposal only included three of the four listed in the U-factor and R-value tables and excluded “metal framed”.

u) CED1-109-22 (Steel frame u-factor framing clarification) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 20-7-4. Reason: The Draft #1 language that was approved in 2022 was preferred. In addition, the proposal did not contain further supplemental information that would support technical merits of the proposal’s recommendations, nor how to verify the proposal was more accurate than the Draft #1 language as the proponent states. Further, the proposal does not address why the decisions by the IECC Commercial Consensus Committee and IECC Commercial Envelope Subcommittee for accepting CEP1-43-21 were not appropriate.

v) CED1-111-22 (Table C402.1.3 footnote i) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 30-0-1. Reason: addresses errata of footnote omitted but previously approved as part of CEPI-38; additional revisions were made for clarity of application.

w) CED1-112-22 (C402.1.3 conflicting language fix) Proponent Greg Johnson. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve. Vote to approve passes 30-0. Reason: Conflicting language is corrected. As written the code requires all buildings to comply with Group R requirements.

x) CED1-113-22 (R-table “other” wall and roof assemblies) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 22-4-5. Reason: This would complicate the code for the user by not allowing an R-value path for “other” categories and metal frame walls that aren’t cold form steel.

y) CED1-114-22 (Stud cavity insulation) Proponent Brian Trimble. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote

to disapprove passes 31-0. Reason: Does not consider horizontal framing applications for layered insulation.

z) CED1-115-22 (CED1-27 as modified deletion of section) Proponent Jay Crandell. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to approve. Vote to approve passes 31-0. Reason: These deletions were previously agreed on. In CEPI-27 (as modified/replaced) three subsections were deleted from the original proposal. However, in the public review draft, these sections were not shown as deleted. This proposal makes those deletions as a procedural "correction" to the draft.

aa) CED1-116-22 (Assembly construction section removal) Proponent Brian Trimble. Introduction by Tom Culp, chair of the Envelope subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 31-0. Reason: Based on prior action on CED1-115.

ab) CED1-162-22 (DR HVAC Requirements exception for R-2 Occupancies) Proponent Alex Smith. Introduction by John Bade, chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 33-0-2. Reason: There is not a large additional cost to provide DR-capable thermostats compared to a standard programmable thermostat, but there is a large cost to replace a non-DR thermostat if a DR-thermostat is needed to participate in a program.

ac) CED1-166-22 (Clarifications on parking garage ventilation) Proponent Greg Johnson. Introduction by John Bade, chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve as modified. Further modification requested to add the word "they" in front of shall in section C403.7.2. Vote to approve as modified passes 34-0-1. Reason: The proposal adds clarity to the parking garage ventilation requirements.

ad) CED1-170-22 (Provide exception for R-2 occupancies for DR water heater controls) Proponent Greg Johnson. Introduction by John Bade, chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve as modified. Motion to remand back to HVACR subcommittee to fix language and return to the next meeting agenda by Emily Lorenz with a second from Greg Johnson. Motion to remand back to subcommittee passes 24-11

ae) CED1-177-22 (Mechanical systems SWH commissioning reqs) Proponent Aaron McEwin. Introduction by Blake Shelide, vice chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 25-0-3. Reason: To clarify the commissioning requirements for simple systems and the exception for certain components within dwelling units.

af) CED1-152-22 (DOAS definition correction) Proponent Nicholas O'Neil. Introduction by Blake Shelide, vice chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to disapprove. Vote to disapprove passes 26-3-3. Reason: The existing language is sufficient. Subcommittee efforts to make modifications did not result in agreed-upon improvements.

ag) CECD1-12-22 (Update DX-DOAS table) Proponent Laura Petrillo-Groh. Introduction by Blake Shelide, vice chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve. Vote to approve passes 31-0. Reason: To ensure marketplace

consistency with DOE's adoption of ISMRE2 and ISCOP2 levels based on AHRI 920-2020, this committee drafted proposal includes the following changes:

1. Updates existing IECC 2021 ISMRE and ISCOP standards to ISMRE2 and ISCOP2 standards consistent with the Department of Energy final rule, published in the Federal Register on November 1, 2022. (87 FR 65651)

a. Note: The effective date of this rule was January 3, 2023. Compliance with the standards established for DX-DOASes in this final rule is required on and after May 1, 2024, so no date was proposed herein as standards will already be federally effective upon publication of UECC 2025.

2. For the four equipment classes covered by 90.1, but not considered by DOE, this proposal harmonizes with Addendum cv of ASHRAE Standard 90.1-2019, changing ISMRE and ISCOP standards to ISMRE2 and ISCOP2 standards based on an industry analysis. Four of these equipment classes were be combined into two.

3. Adds AHRI Standard 920-2020 to Normative References in Section 6

ah) CED1-165-22 (Demand control ventilation exception) Proponent Thomas Nagy. Introduction by Blake Shelide, vice chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 32-1-1.

Reason: To clarify DCV exception for engineered ventilation systems and for alignment with the International Mechanical Code.

ai) CED1-167-22 (Nontransient dwelling units HRV/ERV exception) Proponent Alex Smith. Introduction by Blake Shelide, vice chair of the HVACR and water heating subcommittee. Recommendation by subcommittee is to approve as modified. Vote to approve as modified passes 24-4-4. Reason: To clarify DCV exception for engineered ventilation systems and for alignment with the International Mechanical Code.

7. Subcommittee Reports-Administration subcommittee has finished it assigned proposals. Modeling will be cancelling its meeting on 3/13 and will finish it's work on 3/27.

8. Other Business-none at this time

9. Upcoming meetings. Wednesday, April 5, 3:30 pm-5pm Eastern.

10. Adjourn. The meeting was adjourned at approx. 5:00 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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