



International Code Council IECC Residential Consensus Committee Draft Meeting Minutes

Meeting Date: March 23, 2023

Committee Chair: JC Hudgison

Committee Vice Chair: Bridget Herring, Robin Yochum

1. Call to order. The meeting was called to order by Chair JC Hudgison at approx. 1:02 pm CT.

2. Meeting Conduct. IECC Secretariat Kris Stenger introduced this item and made attendees aware of ICC [Council Policy 7](#) Committees: Section 5.1.10 Representation of Interests, [Council Policy 50](#) antitrust, and ICC [Code of Ethics](#).

3. Roll Call.

Committee members in attendance: (41 in attendance 7 absent)

Chair JC Hudgison, Vice-Chair Robin Yochum, Vice-Chair Bridget Herring, Charles Allen, Jennifer Amann, Rob Austin, Daniel Carroll (alt), Patricia Chawla, Shannon Corcoran (alt), Clifford Davis, Craig Drumheller, Ann Edminster, Ian Finlayson, Kevin Gobble, Emma Gonzalez-Laders, Gary Heikkinen, John A. Hensley, John E. Hensley, Shane Hoepfer, R L Johnson, Cherlyn Kelley, Vladimir Kochkin, Alison Lindburg, Mark Lyles, Ricardo Madrid, Thomas Marston, Amy Martino, Jim Meyers, Michael Noble, Thomas Paine (alt), Robert Parks, Chris Perry (alt), Laura Petrillo-Groh (alt), Richard Potts, William Pousson Jr., Ben Rabe (alt), Mark Rodriguez, Gil Rossmiller, Robert Salcido, Amy Schmidt, Brian Shanks, Michael Tillou (alt), Lauren Urbanek, Gayathri Vijayakumar, Seth Wiley, Jeremy Williams

Not in attendance: Molly Berg (alt), Paul Demers, Stephen Dent, Pamela Fasse, Garret Jaynes (alt), Cesar Lujan (alt), Nehemiah Stone (alt), Kyle Bergeron, Amy Boyce, Paul Messplay (alt), Michael Stone, David Goldstein (alt), Gavin Mabe, Robert Raymer, Richard Truitt, Jeremy Wright

ICC Staff in attendance:

Kris Stenger, Mike Pfeiffer, Russ Manning, Jerica Stacey, Ed Wirtschoreck, Dave Walls

4. Approval of the Agenda-Motion by Emma Gonzalez-Laders to approve the agenda with a second from Ric Johnson. Motion passes unanimously.

5. Approval of the Minutes-Motion to approve the minutes by John Hensley with a second from Seth Wiley. Motion passes unanimously.

6. Administrative issues. Staff set a deadline for committee proposals to be recommended out of the subcommittee by April 13th.

7. Action Items

a) RED1-89-22(Renewable contract length) Proponent Diana Burk represented by Mark Lyles. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Gayathri Vijayakumar. Motion to approve as modified passes 22-9-3. Reason: Consistent with duration of purchased power in other parts of code and simplify requirement to avoid equation of original proposal.

b) REPCD1-1-22 no comments

c) RED1-38-22(Annual energy cost performance exception) Proponent Eric Tate. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 26-3-1. Reason: The proposal lacks information to provide guidance to the modelers.

d) RED1-52-22(Simulated performance compliance) Proponent Ted Williams. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 30-2-1. Reason: The proposal lacks information to provide guidance to the modelers.

e) RED1-44-22(R405.2.3 exception correction) Proponent Gary Heikkinen. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 30-2-2. Reason: The proposal lacks information to provide guidance to the modelers.

f) RED1-39-22(Exception for R405.2) Proponent Steven Rosenstock. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 30-1-2. Reason: SC voted to Disapprove the addition of a new exception because it added complexity to the code and a simpler solution to avoiding the use of a 0.0 source energy multiplier would be preferred. It was not clear why an exception to use site energy savings for all-electric buildings was needed, given that the energy cost savings would yield the same results.

g) RED1-48-22(Simulated building performance) Proponent Kevin Duell. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 29-2. Reason: Disapprove based on prior Disapproval on RED1-38, 52, and 44 which also contained edits related to the ASHRAE Std 105 tables. Based on the discussion, not convinced to add references to new tables from the Appendix but also not convinced to delete the current tables that were previously approved by the Main Committee. The other changes contained in RED1-48 and 50 related to the energy cost savings requirement are similar to RED1-53 and agreed to vote on that change in the context of RED1-53.

h) RED1-50-22(Simulated building performance) Proponent Ian Casey. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 27-2-1. Reason: Disapprove based on prior Disapproval on RED1-38, 52, and 44 which also contained edits related to the ASHRAE Std 105 tables. Based on the discussion, not convinced to add references to new

tables from the Appendix but also not convinced to delete the current tables that were previously approved by the Main Committee. The other changes contained in RED1-48 and 50 related to the energy cost savings requirement are similar to RED1-53 and agreed to vote on that change in the context of RED1-53.

i) RED1-53-22(Simulated building performance) Proponent Renee Lani. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 27-2-1. Reason: Disapprove given that the current multipliers (85 and 80) were proposed when introducing equipment efficiency to R405 and were evaluated by PNNL. Based on previous discussions, to allow equipment efficiency to be modeled required an increase in the amount of savings required and also a decision of the type/efficiency of equipment that is modeled in the Standard Reference Design. Based on those discussions and the analysis by PNNL, not convinced to decrease the required savings from 80% to 85% for homes with fuel burning appliances without modeled data to support the change.

j) RED1-45-22(Simulated building performance) Proponent Gary Heikkinen. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 29-1-1. Reason: Disapprove given that the current multipliers (85 and 80) were proposed when introducing equipment efficiency to R405 and were evaluated by PNNL. Based on previous discussions, to allow equipment efficiency to be modeled required an increase in the amount of savings required and also a decision of the type/efficiency of equipment that is modeled in the Standard Reference Design. Based on those discussions and the analysis by PNNL, not convinced to decrease the required savings from 80% to 85% for homes with fuel burning appliances without modeled data to support the change.

k) RED1-37-22(Annual energy cost performance) Proponent Eric Tate. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 29-1-0. Reason: Disapprove given that the current multipliers (85 and 80) were proposed when introducing equipment efficiency to R405 and were evaluated by PNNL. Based on previous discussions, to allow equipment efficiency to be modeled required an increase in the amount of savings required and also a decision of the type/efficiency of equipment that is modeled in the Standard Reference Design. Based on those discussions and the analysis by PNNL, not convinced to decrease the required savings from 80% to 85% for homes with fuel burning appliances without modeled data to support the change.

l) RED1-51-22(Simulated performance compliance) Proponent Eric Tate. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 26-1-1. Reason: Disapprove given that the current multipliers (85 and 80) were proposed when introducing equipment efficiency to R405 and were evaluated by PNNL. Based on previous discussions, to allow equipment efficiency to be modeled required an increase in the amount of savings required and also a decision of the type/efficiency of equipment that is modeled in the Standard Reference Design. Based on those discussions and the analysis by PNNL, not convinced to decrease the required savings from 80% to 85% for homes with fuel burning appliances without modeled data to support the change.

m) RED1-69-22(ERI path stringency) Proponent Amy Boyce. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to call the question by Ric Johnson with a second by Gayathri Vijayakumar. Motion to call the question passes 31-0. Motion to disapprove passes 24-7-1. Reason: The purpose of this proposal is to maintain the same ERI targets required in the 2021 IECC, in order to help ensure that the ERI path is no less efficient in the 2024 IECC. Table R406.5 of the 2021 IECC establishes maximum ERI targets, and Section R401.2.5 applies a 5% improvement to the scores in this table. This improvement was adopted as part of a 5% efficiency improvement for prescriptive, performance, and ERI compliance paths and was overwhelmingly approved by Governmental Member Voting Representatives in RE209-19. In the current update cycle, the supporters of REPI-21 argued that the 5% improvement to the ERI scores belonged in Table R406.5, and not in R401.2.5, but when broad changes were adopted into the ERI in proposal REPI-126, the updated ERI targets did not include the full 5% improvement. We believe an additional 5% improvement (beyond the scores above) is warranted, since the target for the 2024 IECC prescriptive path is roughly a 5% improvement as well.

n) IRCED1-1-22(Construction documents) Proponent Fredric Zwerg. Introduction by Richard Potts, chair of Consistency and Administration subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 30-0-1. Reason: No conflict present with this definition. Disapproval is consistent with committee action on RED1-4-22.

o) RECD1-2-22(WDMA proposal) Proponent IECC RE Consistency and Administration subcommittee. Introduction by Richard Potts, chair of Consistency and Administration subcommittee. Motion to approve with a second from Ric Johnson. Motion to approve passes 31-0. Reason: update reference standards and promulgators information.

p) RED1-6-22(AISI update) Proponent Jonathan Humble. Introduction by Richard Potts, chair of Consistency and Administration subcommittee. Motion to approve with a second from Ric Johnson. Motion to approve passes 30-0. Reason: Necessary change to update the standard.

q) RED1-364-22(Grammatical correction) Proponent Michele DeFrance. Introduction by Richard Potts, chair of Consistency and Administration subcommittee. Motion to disapprove with a second from Ric Johnson. Motion to disapprove passes 29-2-1. Reason: Correction not necessary prefer existing language.

r) RED1-103-22(Remove solar ready provisions) Proponent Shannon Corcoran. Introduction by Shane Hoeper, member of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Gayathri Vijayakumar. Motion to disapprove passes 26-4-1. Reason: The proposal was to move mandatory requirements into an appendix. However an appendix already exists for solar-ready zones and this appendix would not be needed.

s) RED1-105-22(Solar ready requirements) Proponent Adam Berry. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Shane Hoeper. Motion to disapprove passes 28-2-1. Reason: The proposal was not clearly worded regarding panel capacity. Did this refer to space in the panel, size of the panel or load capacity?

t) RED1-104-22(Solar ready exception) Proponent Diana Burk. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Shane Hoeper. Motion to disapprove passes 29-8. Reason: Considerable discussion regarding referencing the Commercial code in the Residential code. The final vote reflects that the majority did not agree with doing so. There was also concern regarding the 15-year timeframe for the renewable energy contract.

u) RED1-136-22(Solar ready zone modifications) Proponent Adam Berry. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Shane Hoeper. Motion to disapprove passes 26-4-2. Reason: There were concerns regarding changing the solar ready zone from 500 to 300 square feet of roof area. The 500 square feet was previously agreed upon. Same issue for eliminating exc. 7 for units less than 1,500 square feet.

v) RED1-133-22(Add exceptions R404.6) Proponent Steven Rosenstock. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Shane Hoeper. Motion to disapprove passes 25-9-1. Reason: There were concerns that the Renewable Portfolio Standard can vary from state to state and would be difficult for an AHJ to verify.

w) RED1-137-22(Electrical service reserved space for renewables) Proponent Greg Johnson. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Subcommittee vote was split with no recommendation. Motion by Mark Rodriguez to disapprove with a second from Shane Hoeper. Motion to disapprove passes fails 14-18-2. Motion to approve by Gil Rossmiller with a second from Ric Johnson. Motion to call the questions by Seth Wiley with a second from Robin Yochum. Motion to call the question passes 30-0. Motion to approve passes 25-6-2 Reason: language open to all types of renewables.

x) RED1-138-22(Electrical interconnection renewables) Proponent Greg Johnson. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to approve with a second from Shane Hoeper. Motion to approve passes 26-4. Reason: This proposal clarifies the requirements for location and labeling of the electrical interconnection for future renewable energy installations. Similar to RED1-137-22, it changes the wording "Solar" to "Renewable".

y) IRCED1-5-22(Specific locations) Proponent Frederic Zwerg. Introduction by Mark Rodriguez, vice chair of Electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Shane Hoeper. Motion to disapprove passes 32-1. Reason: The substantiation for this proposal addressed only the automatic light in a garage door opener. However this code section addresses all types of luminaires in garages as well as unfinished basement, laundry rooms and utility rooms.

z) RED1-267-22(Alterations) Proponent Lucyna de Barbaro. Introduction by Gil Rossmiller, chair of Existing Buildings subcommittee. Motion to disapprove with a second from Edwin Hensley. Motion to disapprove passes 30-0. Reason: Code language as proposed is confusing.

aa) RED1-268-22(Alterations) Proponent Jay Crandell. Introduction by Gil Rossmiller, chair of Existing Buildings subcommittee. Motion to approve as modified with a second from Edwin Hensley. Motion to approve as modified passes 24-5-4. Reason: Clarifies several sections of the code, fits appropriately in the IECC standard.

- ab) RED1-269-22(Roof Alterations) Proponent Aaron Phillips. Withdrawn by proponent.
- ac) RECD1-3-22(WDMA proposal) Proponent Envelope and embodied energy subcommittee. Introduction by Emma Gonzalez-Laders, chair of the Envelope subcommittee. Motion to approve as modified with a second from Robert Parks. Motion to further modify by Craig Drumheller with a second from Vladimir Kochkin. Motion to further modify passes 19-6-2. Motion to approve as modified passes 24-5-2. Reason: The previous language had some unintended consequences and possibly voiding the manufacturer's warranty. Multiple members expressed the need to modify the language of the insulation criteria. Proposed language provides clarity and resolves issues related to unintended consequences and is preferred to the language currently in draft 1.
- ad) RED1-183-22(Window installation) Proponent Theresa Weston. Withdrawn by proponent.
- ae) RED1-227-22(Window installation) Proponent Theresa Weston. Withdrawn by proponent.
- af) RED1-232-22(Fenestration modifications) Proponent Craig Drumheller. Withdrawn by proponent.
- ag) RED1-234-22(Insulation around windows) Proponent Jay Crandell. Withdrawn by proponent.
- ah)Table remaining agenda items to March 30 agenda. Motion by Emma Gonzalez-Laders with a second from John Hensley. Motion passes unanimously.

8. Subcommittee reports

None at this time

9. Other Business-April meeting times may need to be moved forward to accommodate work load.

10. Upcoming meetings. The next meeting will be Thursday, March 30, 2023 at 1 pm Central time

11. Adjourn. at 4:10 pm.

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

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Kristopher Stenger, AIA, CBO
Director of Energy Programs
International Code Council
kstenger@iccsafe.org