



International Code Council IECC Residential Consensus Committee Draft Meeting Minutes

Meeting Date: April 13, 2023

Committee Chair: JC Hudgison
Committee Vice Chair: Bridget Herring

1. Call to order. The meeting was called to order by Vice Chair Bridget Herring at approx. 1:02 pm Eastern.
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: (42 in attendance 5 absent)

Vice-Chair Bridget Herring, Charles Allen, Jennifer Amann, Rob Austin, Kyle Bergeron, Daniel Carroll (alt), Patricia Chawla, Shannon Corcoran (alt), Clifford Davis, Stephen Dent, Craig Drumheller, Ann Edminster, Ian Finlayson, Kevin Gobble, David Goldstein (alt), Gary Heikkinen, John A. Hensley, John E. Hensley, R L Johnson, Mark Lyles, Shane Hoeper, Cherlyn Kelley, Vladimir Kochkin, Alison Lindburg, Ricardo Madrid, Thomas Marston, Amy Martino, Jim Meyers, Michael Noble, Thomas Paine (alt), Robert Parks, Chris Perry (alt), Richard Potts, William Pousson Jr., Ben Rabe (alt), Robert Raymer, Mark Rodriguez, Gil Rossmiller, Robert Salcido, Amy Schmidt, Brian Shanks, Michael Stone, Michael Tillou (alt), Richard Truitt, Gayathri Vijayakumar, Seth Wiley, Jeremy Williams, Jeremy Wright

Not in attendance: Chair JC Hudgison, Molly Berg (alt), Amy Boyce, Paul Demers, Pamela Fasse, Garret Jaynes (alt), Cesar Lujan (alt), Nehemiah Stone (alt), Emma Gonzalez-Laders, Laura Petrillo-Groh (alt), Paul Messplay (alt), Gavin Mabe, Lauren Urbanek

ICC Staff in attendance:

Kris Stenger, Ed Wirtschoreck, Russ Manning, Dave Walls

4. Approval of the Agenda-request to move RED1-75 and RED1-250-22 to the next meeting. Request to move RED1-351-22 in front of RED1-344. Motion by Robert Raymer to approve the agenda as modified with a second from Rick Madrid. Motion passes unanimously.
5. Approval of the Minutes-Motion to approve the minutes from 4/6 by Robert Raymer with a second from Ric Johnson. Motion passes unanimously.

6. Administrative issues. None at this time

7. Action Items

a) RED1-299-22(R403.11.2 language update) Proponent Steve Rosenstock. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to approve with a second from Rick Madrid. Motion to approve passes 31-0. Reason: brings consistency to section.

b) RED1-361-22(Appendix RE definitions) Proponent Steve Rosenstock. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 27-4. Reason: concerns about other fuels such as hydrogen.

c) RED1-320-22(Multifamily H/ERV alignment with IECC-C) Proponent Mike Moore. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 30-1-2. Reason: The Committee preferred maintaining the ERV/HRV requirements as currently stated in R403.6.1 rather than adopting text used in the IECC-C. In addition, adding text for Group R-2 did not make sense to be added to the IRC.

d) RED1-354-22(R408 water heaters) Proponent Alex Smith. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 32-0. Reason: approved RED1-313-22 takes care of this proposal.

e) RED1-358-22(Update water heater efficiency options) Proponent Mary Koban represented by Kyle Bergeron. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to approve as modified with a second from Rick Madrid. Motion to approve as modified passes 32-1. Reason: updates requirements for water heater types and draw patterns.

f) RED1-355-22(Service water heating efficiencies) Proponent Ted Williams. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 33-1-1. Reason: RED1-358-22 takes care of this proposal.

g) RED1-356-22(Service water heating efficiencies) Proponent Eric Tate. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 32-1-1. Reason: RED1-358-22 takes care of this proposal.

h) RED1-357-22(Update Table R408.2.3) Proponent Steven Rosenstock. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 33-0. Reason: RED1-358-22 takes care of this proposal.

i) RED1-309-22(testing of ducts inside conditioned space) Proponent Alex Smith. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to approve as modified with a second from Rick Madrid. Motion to approve as modified passes 31-0-1. Reason: Committee voted to support the proposal to enable homes with duct systems

inside conditioned space to test for duct leakage without the AHU installed, as long as the AHU is later verified to be inside conditioned space.

j) RED1-351-22(Update HVAC efficiency options) Proponent Mary Koban represented by Kyle Bergeron. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove fails 0-31. Motion to approve as modified by John Hensley with a second from Robert Raymer. Motion to approve as modified passes 35-0. Reason: multiple industry professionals participated in a work group with the proponent AHRI - Kyle Bergeron to clean up the language, remove the reference to Northern and Southern regions (referring to climate zones in the United States) and clean up the tables.

k) RED1-344-22(More efficient HVAC equip performance option) Proponent Robert Glass. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to disapprove with a second from Rick Madrid. Motion to disapprove passes 33-1-2. Reason: based upon committee action on RED1-351-22.

l) RED1-353-22(Efficient HVAC performance options) Proponent Robert O'Brien. Introduction by John Hensley chair of HVACR and water heating subcommittee. Motion to approve with a second from Rick Madrid. Motion to approve fails 12-21-2. Motion to disapprove by Gayathri Vijayakumar with a second from Mark Lyles. Motion to disapprove passes 24-6-3. Reason: Proposal disapproved due to concerns raised with the potential for low energy savings associated with this technology (relative to other heating HVAC options in this section of code), the inability to provide credits based on carbon reduction benefits, and because members felt that it was unnecessary to credit this heating technology within this section of code.

m) RED1-76-22(Off-site renewables) Proponent Alex Smith represented by Vladimir Kochkin. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve with a second from Thomas Marston. Motion to approve 24-10. Reason: The proposal provides an option to recognize the many benefits of community solar and other offsite renewable energy generation choices.

n) RED1-256-22(Roof reflectance) Proponent Glenn Clapper. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve with a second from Thomas Marston. Motion to approve passes 32-0. Reason: Clarified the application of the provision.

o) RED1-255-22(Roof reflectance) Proponent Glenn Clapper. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Thomas Marston. Motion to approve as modified passes 31-1-1. Reason: improves the accuracy of this credit.

p) RED1-263-22(Additional efficiency credits for existing buildings) Proponent Sean Denniston. Introduction by Gil Rossmiller, chair of Existing Buildings subcommittee. Motion to approve with a second from. Motion to approve fails 22-14-1. Motion by Thomas Marston to table until 4/20 meeting for small working group to bring back a proposed modification. Second by Mark Lyles. Motion to table passes 28-5.

q) RED1-252-22(Solar absorptance) Proponent Aaron Phillips. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve with a second

from Thomas Marston. Motion to approve passes 31-0. Reason: Aligns terms with those used in the body of the residential code; also consistent with action taken for the commercial code

r) RECD1-6-22(Source energy proposal) Proponent Economics, Modeling, Metrics subcommittee. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Thomas Marston. Motion to approve as modified passes 27-3-1. Reason: The change to fixed site-to-source multipliers (rather than referencing tables from ASHRAE Std 105) was supported by the Committee because it reduces unnecessary complexity while still allowing flexibility and acknowledges the changes in grid efficiency since the last code cycle. It also expands the site energy savings exception to all homes, not just all-electric homes with on-site renewables.

s) RED1-249-22(R405 clarifications and sampling R-2) Proponent Gayathri Vijayakumar. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Thomas Marston. Motion to approve as modified passes 34-0-1. Reason: The original proposal was modified to remove the text introducing sampling of modeling files and the new footnote. The Committee voted to support the remaining editorial changes and edits that clarify how the path is used for multifamily buildings.

t) RECD1-8-22(Software validation) Proponent Economics, Modeling, Metrics subcommittee. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve with a second from Thomas Marston. Motion to approve passes 33-0. Reason: Provides consistent testing requirements for software compliance tools based on ASHRAE Standard 140.

u) RED1-65-22(Update R406) Proponent Gayathri Vijayakumar. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Thomas Marston. Motion to approve as modified passes 33-0. Reason: The Committee voted to support the clarifying edits and the modification to require common spaces comply with R402 through R404. Consistent with action on RECD1-8, the sub-committee also supported the new requirement for software to document that the ASHRAE Standard 140 tests had been performed.

v) RECD1-7-22(ERI w OPP) Proponent Economics, Modeling, Metrics subcommittee. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to approve as modified with a second from Thomas Marston. Update to change value in Climate Zone 8 to 46. Motion to approve as modified passes 29-1-2. Reason: The Committee voted to support the revised ERI maximum values based on analysis provided by PNNL which estimated the ERI with 2 kW of OPP.

w) RED1-85-22(Remove table R408.2.2) Proponent Fredric Zwerg. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Thomas Marston. Motion to disapprove passes 33-0. Reason: The R408 point structure was strongly supported by the Consensus Committee in the first round of public comment. While the "TBD" values are currently being shown, they will be replaced with point values once PNNL completes the analysis.

x) RED1-63-22(Strike product class) Proponent Ted Williams. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second

from Thomas Marston. Motion to disapprove passes 30-0. Reason: Errata corrected the table that was the subject of the proposed revision, which made the revision no longer necessary.

y) RED1-64-22(Strike product class) Proponent Tom Ortiz. Introduction by Brian Shanks, vice chair of Economics, Modeling, Metrics subcommittee. Motion to disapprove with a second from Thomas Marston. Motion to disapprove passes 32-0. Reason: Errata corrected the table that was the subject of the proposed revision, which made the revision no longer necessary.

z) RED1-91-22(Appendix RP On-site renewable energy) Proponent Michael Tillou. Introduction by Mike Stone, chair of electrical power, lighting, renewables, and storage subcommittee. Motion to approve as modified with a second from Robert Raymer. Motion to approve as modified passes 30-1. Reason: The sub-committee worked with the proponent to come to consensus on the placement of renewable energy prescriptive requirements in an appendix while allowing options for improved efficiency to offset, some or all, of the renewable energy requirement. This proposal is consistent with requests from the Consensus Committee last spring.

aa) RECD1-4-22(R404.6.2 Solar-ready zone) Proponent Electrical power, lighting, renewables, and storage subcommittee. Introduction by Mike Stone, chair of electrical power, lighting, renewables, and storage subcommittee. Motion to approve as modified with a second from Robert Raymer. Motion to approve as modified passes 29-0. Reason: This member proposal resolves the objections raised in RED1-140 and RED1-169, by bringing the solar-ready requirements for Group R-2 into R404.6, rather than referencing Appendix CB. The committee felt that this proposal successfully combined the elements of past committee work and the modifications brought clarity to the section.

ab) RED1-140-22(R404.6.2 Group R Occupancies) Proponent Greg Johnson. Introduction by Mike Stone, chair of electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Robert Raymer. Motion to disapprove passes 33-1. Reason: Given previous committee action on RECD1-4-22, this proposal is no longer necessary.

ac) RED1-169-22(R404.6.2 and section of Appendix RB) Proponent Greg Johnson. Introduction by Mike Stone, chair of electrical power, lighting, renewables, and storage subcommittee. Motion to disapprove with a second from Robert Raymer. Motion to disapprove passes 32-0. Reason: Given previous committee action on RECD1-4-22, this proposal is no longer necessary.

ad) RED1-277-22(Exterior wall envelope) Proponent Jay Crandell. Introduction by Gil Rossmiller, chair of existing buildings subcommittee. Motion to approve with a second from Edwin Hensley. Motion to approve passes 31-0. Reason: Deletes an unneeded definition. If full committee passes RED1-263-22 any coordination issues can be cleaned up in the development round.

ae) RED1-264-22(Existing buildings modifications) Proponent Patricia Chawla. 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 29-0-1. Reason: Proposal coordinates and improves code by combining two sections with the same name and similar requirements. Adding a new definition for existing building.

af) RECD1-10-22(Addition heating and cooling exception) Proponent Existing buildings subcommittee. Introduction by Gil Rossmiller, chair of existing buildings subcommittee. Motion to approve with a second from Edwin Hensley. Motion to approve passes 32-0. Reason: Deletes “To an addition” in both sections. Having “addition” in the alteration section adds confusion. Removing provides clarity to the code.

ag) RECD1-5-22(Addition heating and cooling exception) Proponent Existing buildings subcommittee. Introduction by Gil Rossmiller, chair of existing buildings subcommittee. Motion to disapprove with a second from Edwin Hensley. Motion to disapprove passes 19-16. Reason: The term fossil fuel is misleading, and the net result will not improve energy efficiency.

ah)remaining items tabled. Motioned by Robert Raymer with a second from Ric Johnson

8. Subcommittee reports

None at this time

9. Other Business-none at this time

10. Upcoming meetings. The next meeting will be Thursday, April 20, 2023 at 1 pm Eastern time

11. Adjourn. at 5:10 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