International Energy Conservation Code Consensus Committee- Residential

Draft Meeting Agenda (3/17 posting)

Webex Meeting Link

March 24, 2022
2:00 PM EST to 5 PM EST (3 hours)

_____ Committees: Section 5.1.10 Representation of Interests

c. ICC Code of Ethics: ICC advocates commitment to a standard of professional behavior that exemplifies the highest ideals and principles of ethical conduct which include integrity, honesty, and fairness. As part of this commitment it is expected that participants shall act with courtesy, competence and respect for others.

3. Roll Call.

4. Approve Agenda

5. Approval of Minutes

6. Administrative issues-staff

7. Action Items

a. Code Change Proposals

REPI-108-21 (Lighting interior controls)	(Elec. Pwr/Light as modified 9-1)
REPI-109-21 Part I (Lighting exterior control)	(Elec. Pwr/Light disapprove 8-1-3)
REPI-109-21 Part II(Lighting exterior control)	(Elec. Pwr/Light disapprove 8-1-3)
REPI-110-21 (Lighting exterior controls)	(Elec. Pwr/Light disapprove 11-0-1)
REPI-54-21 (Air Sealing Windows, Skylights)	(Envelope disapprove 13-6)
REPI-37-21 (Crawl Space Walls)	(Envelope as modified 15-0-1)
REPI-43-21 (Air Leakage testing reference)	(Envelope as modified 15-0-1)
REPI-58-21 (Air Leakage exception)	(Envelope as modified 12-4)
REPI-59-21 (Air Leakage testing)	(Envelope disapprove 10-4-1)
REPI-61-21 (Air Leakage testing multifamily)	(Envelope approve 8-7)

CEPI-24-21 Part II (Performance Path)	(Admin as modified 5-0-1)
REPI-153-21 (Zero Energy Appendix Scope)	(Admin approve 4-0-1)
REPI-156-21 (Zero Energy Appendix Reorg)	(Admin approve 3-0-3)
REPI-159-21 (Above Code Program)	(Admin as modified 5-0-1)
REPI-166-21 (Decarbonization Site Waste)	(Admin approve 5-0-1)
REPI-65-21 (Gas Fireplace Efficiency)	(HVACR neutral 6-6-0)
REPI-87-21 (Pipe Insulation Protection)	(HVACR as modified 11-0-0)
REPI-92-21 (ERV multifamily)	(HVACR disapprove 11-0-0)
REPI-94-21 (Sensible Recovery Efficiency)	(HVACR as modified 9-0-1)
REPI-116-21 (Perf. Path Renewables)	(Econ/Modeling as modified 12-5)
REPI-131-21 (ERI Air Exchange Rate)	(Econ Modeling as modified 18-0-3)
REPI-132-21 (ERI Airflow Rate)	(Econ Modeling disapprove)

8. Subcommittee Reports
    Subcommittee guidance
    a. Economics, Modeling, and Whole-Building Metrics
        1. Cost Effectiveness

9. Other business.

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International Energy Conservation Code
Code Change Proposal Tracking Sheet

Consensus Committee	
Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	REP-109-21 Part I Lighting Exterior controls
CDP ID #	484
Code	IECC RE
Code Section(s)	R404.3 New Section n
Location	base
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	Allows for solutions using astronomical clocks that know when daylight hours are everyday to control lighting. It seems like there is no change in requirements, during daylight hours and when daylight is present seems the

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	REP1109-21 Part II Lighting Exterior controls
CDP ID #	580
Code	IRC
Code Section(s)	N1104.3 New Section n
Location	base
Proponent	MichaelJouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light

Allows for solutions using astronomical clocks that know what daylight h

Subcommittee Notes

International Energy Conservation Code

Code Change Proposal Tracking Sheet

Proposal #	REPI110-21 Lighting Exterior controls
CDP ID #	396
Code	IECC RE
Code Section(s)	R404.3 New Section n
Location	base
Proponent	Steven Rosenstock srosenstock@eei.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	Adding the exception for solar powered lighting fixtures. doesn't think its should be required here. agree with Shane, exterior solar lighting not permanent. What about battery powered fixtures? Why not promote solar powered lighting fixtures? It may not be normal now but could be in the future. I would promote this, but not the purpose of this committee or the book to promote certain technologies. Not connected to any electrical service and low voltage, not permitted and could be used everywhere. No permit required. This is not needed. Opposed to the proposal, we don't want an AHJ controlling this but what if the solar powered lighting is connected to the service? Solution to a problem that doesn't exist. would make more sense if it was an exception for low power lighting fixtures. At what point would a solar powered light fixture need an automatic light switch or control? in CA, we are aware of emerging tech, nice lighting fixtures that have no connection to the grid. Communities in the SW that have dark sky amendments where at a certain time of the evening lights need to turn off. Maybe an amendment to "solar powered lighting." an

Next Step	To Subcommittee_____ To Advisory Group_____ To Consensus Committee_____
Consensus Committee	
Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

Component	Air Barrier Criteria	Insulation Installation Criteria

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP-037-21 Crawl space walls
CDP ID #	117
Code	IECC RE
Code Section(s)	R402.2.10; R402.2.10.1 New Section
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Suggestions for editorial changes, eliminated horizontal application of th insulation; interest in maintaining four feet inspection; gaps for termite inspection. End of meeting: Charlie Allen checks information and notes the data he cited earlier in the meeting was incorrect with potential to affect outcome.
Recommendation	1st Motion: Disapprove as submitted because it reduces length of insulation and conflicts with Table 402.1.2 and should be coordinated. Charlie Allen, Amy Schmidt seconded. ---------- NEW Motion to table and reconsider at next meeting. Chris Mathis; second Charlie Allen voice vote --- Charlie Allen motions to approve as amended, Chris Mathis seconds Reason: need new motion based on revised misinformation.
Vote	15-0
Recommendation Date	3/2/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee X
Consensus Committee	

Committee Response	

Affirmative

Vote

Reason Statement

Modifications in blue to the original proposal originated from discussion in the envelope subcommittee.

- Floors was removed in R402.2.10 to follow more conventional code language
- Section R402.2.10.1 charging language has been made more concise.
- Point 1 and 2 have been made more precise that they are options
- Termite inspection was brought up as a concern but was deemed to be an issue primarily associated with the IRC and one that is not currently addressed in this section of the code and not needed at this time because it is being addressed locally.

Purpose: This proposal offers direction for installation of foundation insulation that performs, and which makes enforcement easier and more straight forward. The standing language does not address insulating from the inside and ambiguously speaks to insulating the rim joist or "the depth of the floor".

Language that has been stricken is not enforced and is confusing creating situations where the crawl foundation wall may not be fully insulated especially at the top next to the sill plate connection and at the bottom connection with footings or soils. Performance and efficiency will be increased through consistent application which will benefit jurisdictions and the homeowner by ensuring continuous thermal envelopes and avoid thermal bridging.

There may be a perception that the removal of the requirement to insulate horizontally for 2' over the dirt floor is a reduction in the stringency of the [illegible]

Bibliography and Access to Materials (as needed when substantiating material is associated with the amendment proposal):

https://www.huduser.gov/publications/pdf/fpsfguide.pdf

Cost:
This proposal will not increase cost and should decrease cost as it is eliminating the requirement to install insulation 2' horizontally on the interior of the foundation wall over the vapor retarder on the dirt floor.

International Energy Conservation Code

Code Change Proposal Tracking Sheet

REPI

Proposal # RE2043-21

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP-059-21 Air leakage testing
CDP ID #	416
Code	IECC RE
Code Section(s)	R402.4.1.2 New Section
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Air Leakage testing modification to eliminate redundancy in testing proto
Recommendation	Chris Mathis motion to approve, Alison Lindberg seconds. Motion fails. Changes still need to be made so motion to disapprove. Reason: this proposal needs further work.

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP-061-21 Air leakage testing multifamily units
CDP ID #	516
Code	IECC RE
Code Section(s)	R402.4.1.2, R402.4.1.3, R402.4.1.4 (New) New Section
Location	base
Proponent	Aaron Gary aaron.gary@texenergy.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Air leakage test sampling proposal had mixed response. Was debate on both sides of this. Not consistent with what's in the commercial code. Edits have improved proposal. Significant weakening of testing provision by allowing sampling
Recommendation	Reason: sampling increase efficiencies Drumheller motions to approve as modified, Hickman seconds
Vote	8-7
Recommendation Date	3/2/2022
Next Step	To Subcommittee_____ To Advisory Group_____ To Consensus Committee____X_____
Consensus Committee	
Committee Response	
Vote	Affirmative_____Negative_____ Table_____ To Subcommittee_____
Date	

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP1153-21 Zero Energy Appendix Scope
CDP ID #	503
Code	IECC RE
Code Section(s)	RC101, RC101.1 New Section
Location	appendix
Proponent	Patricia Chawla patricia.chawla@austinenergy.com
Proposal Status	SC rev
Subcommittee	RE Admin
Subcommittee Notes	
Recommendation	Approval
Vote	4-0
Recommendation Date	

Next Step To Subcommittee

To AAAAAAa6(A)l7 (o)-2.1 (A)0.8 (A)0.8 14.82 re f EMC BBBBBBBBBBBBBBE

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REPI166-21 Decarbonization Construction Waste
CDP ID #	473
Code	IECC RE
Code Section(s)	X New Section
Location	appendix
Proponent	Hope Medina hmedina@coloradocode.net
Proposal Status	SC rev
Subcommittee	RE Admin
Subcommittee Notes	
Recommendation	Approval
Vote	5-0
Recommendation Date	

International Energy Conservation Code
Code Change Proposal Tracking Sheet

sal #	REP-087-21 Pipe insulation protection
D #	36
	IECC RE
Section(s)	R403.4.1 New Section
on	base
ment	Howard Ahern howard.ahern@airexmfg.com
sal Status	SC rev
mmittee	RE HVACR & WH

Subcommittee Notes

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal # REP-092-21

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REP-1131-21 ERI Air Exchange Rate
CDP ID #	293
Code	IECC RE
Code Section(s)	R406.4 New Section
Location	base
Proponent	Vladimir Kochkin vkochkin@nahb.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	Removes prescribed ventilation rates in ERI path, to better align with ICC/RESNET standard 301
Recommendation	Approve as Modified Motion by Vladimir Kochkin 2nd by Gayathri Vijayakumar
Vote	Approve as Modified 18 –

REPI-131-21 – MOD1

IECC®: R406.4

Proponents:
Vladimir Kochkin, NAHB, representing NAHB (vkochkin@nahb.org)

2021 International Energy Conservation Code

Revise as follows:
R406.4 (N1106.4) Energy Rating Index.
The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301 ~~except the air exchange rate in RESNET/ICC 301 shall be in accordance with items (1) and (2) as follows:~~

1. ~~Air exchange rate for the Energy Rating Reference Home in RESNET/ICC 301 Table 4.2.2(1) shall be replaced by the air exchange rate for the Standard Reference Design as defined in Table R405.4.2(1) of this code.~~
2. ~~Air exchange rate for the Rated House in RESNET/ICC 301 Table 4.2.2(1) and Table 4.3.1(1) shall be replaced by the air exchange rate for the Proposed Design as defined in Table R405.4.2(1) of this code.~~

~~Buildings designed in accordance with this code shall not be required to meet the RESNET/ICC 301 air exchange rates or mechanical ventilation rates used for the purpose of determining the ERI.~~

The mechanical ventilation rates used for the purpose of determining the ERI shall not be construed to establish minimum ventilation requirements for compliance with this code.

~~for buildings covered by the International Residential Code , the ERI reference design ventilation rate shall be in accordance with Equation 4-2.~~
~~Ventilation rate, CFM = (0.01 × total square foot area of house) + [7.5 × (number of bedrooms + 1)] (Equation 4-2)~~

Reason Statement:
The purpose of this proposal is to fix an inadvertent error that was introduced in the 2018 IECC during an effort to coordinate the ERI calculation procedure with the residential ventilation rates. The change in 2018 IECC resulted iID 24 >>B Ii 0 Tc 0a2 >>BDC (10t98) -030 10.98 8 72 4 17.6 Tm327 total t r 7 2 (u t) 6 .

International Energy Conservation Code
Code Change Proposal Tracking Sheet

Proposal #	REPI132-21 ERI airflow rate
CDP ID #	296
Code	IECC RE
Code Section(s)	R406.4 New Section
Location	base
Proponent	Mike Moore mmoore@statorllc.com
Proposal Status	SC rev
Subcommittee	