



International Energy Conservation Code Consensus Committee-Residential

Draft Meeting Agenda (2/17 posting)

[Webex Meeting Link](#)

February 24, 2022
2:00 PM EST to 5 PM EST (2.5 hours)

Committee Chair: JC Hudgison, CBO, Assoc. AIA

Committee Vice Chair: Bridget Herring & Robin Yochum, LEED Green Associate

1. Call to order.
2. Meeting Conduct.
 - a. Identification of Representation/Conflict of Interest
 - b. ICC [Council Policy 7](#) 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

CEPI-15-21 Part II (Emittance definition)	(Admin approve 5-0)
CEPI-15-21 Part III (Emittance definition)	(Admin approve 5-0)
REPI-11-21 (Reflective Insulation)	(Admin as modified 5-2)
REPI-45-21 (Air Barrier Criteria)	(Envelope deny 11-5)
REPI-47-21 (Air Sealing Ceiling Attic)	(Envelope approve 18-0)
REPI-51-21 (Air Sealing Separation Wall)	(Envelope deny 15-1)
REPI-52-21 (Air Sealing Shower Tub Fireplace)	(Envelope approve 18-0)
REPI-53-21 (Air Sealing Utility Boxes)	(Envelope as modified 15-4)
REPI-57-21 (Air Barrier Testing)	(Envelope deny 16-0)
REPI-66-21 (Air Barrier Boxes)	(Envelope approve 14-6)
REPI-74-21 (Fireplace Pilot Lights)	(HVACR approve unanimously)

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REPI-121-21 (Performance Compliance)	(Econ/Modeling approve)
REPI-122-21 (Performance Path)	(Econ/Modeling as modified 13-3)
REPI-129-21 (ERI on-site renew backstop)	(Econ/Modeling approve)
REPI-128-21 (ERI envelope backstop)	(Econ/Modeling deny)
IRCEPI-5-21 (Source Energy Multiplier)	(Econ/Modeling deny 16-0)
CEPI-17-21 Part II (Roof Replacement)	(Existing Bldg deny unanimously)
REPI-147-21 (Roof Replacement Exception)	(Existing Bldg deny 5-1-1)
REPI-148-21 (Bldg Envelope Air Barrier)	(Existing Bldg deny 5-1-1)
REPI-149-21 (Roof Membrane Peel Replace)	(Existing Bldg deny 5-1-1)
CEPI-12-21 Part II (Biomass definition)	(Elec. Pwr/Light as modified 10-2)
REPI-112 21 Part I (Light Cntrl Large Home)	(Elec. Pwr/Light as modified)
REPI-112 21 Part II (Light Cntrl Large Home)	(Elec. Pwr/Light as modified)
REPI-102-21 Part I (Lighting Efficacy)	(Elec. Pwr/Light approve 11-0-1)
REPI-102-21 Part II (Lighting Efficacy)	(Elec. Pwr/Light approve 11-0-1)
REPI-100-21 (High Efficacy lighting)	(Elec. Pwr/Light deny 11-0-1)
REPI-103-21 (High Efficacy Light sources)	(Elec. Pwr/Light deny 11-0-1)

8. Subcommittee Reports

Subcommittee guidance

a. Economics, Modeling, and Whole-Building Metrics

1. Cost Effectiveness

9. Other business.

10. Upcoming meetings. March 3 at 2 PM EST

11. Adjourn.

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



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CEPI-015-21 Part I Emittance definition
CDP ID #	102
Code	IECC RE
Code Section(s)	R202 New Section n
Location	base
Proponent	Amanda Hickman amanda@thehickmangroup.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	This definition will be helpful to have to account for new technology coming into the field. This definition is consistent with ASHRAE and ASTM.
Recommendation	Motion to approve.
Vote	5-0
Recommendation Date	1/18/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <input checked="" type="checkbox"/> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CEPI-015-21 Part II Emittance definition
CDP ID #	102
Code	IECC IRC
Code Section(s)	R202 New Section n
Location	base
Proponent	Amanda Hickman amanda@thehickmangroup.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	This definition will be helpful to have to account for new technology coming into the field. This definition is consistent with ASHRAE and ASTM.
Recommendation	Motion to approve.
Vote	5-0
Recommendation Date	1/18/22
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 #	REPI-011-21 Reflective Insulation
CDP ID #	101
Code	IECC RE
Code Section(s)	R303.1.1 New Section y
Location	base
Proponent	Amanda Hickman amanda@thehickmangroup.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Approve this proposal changing the definition of reflective insulation to say; "A material with a surface emittance of 0.1 or less in an assembly consisting of one or more enclosed reflective air spaces."
Vote	5-2
Recommendation Date	1/18/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <input checked="" type="checkbox"/> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-047-21 Air Sealing Ceiling Attic
CDP ID #	405
Code	IECC RE
Code Section(s)	R402.4.1.1 table New Section n
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Proposal clarifies that dropped ceilings are inside the thermal envelope. The subcommittee agreed it was a need update and voted unanimously to approve.
Vote	18 yes / 0 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <u>X</u> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-051-21 Air Sealing Separation Wall
CDP ID #	409
Code	IECC RE
Code Section(s)	R402.4.1.1 table New Section n
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Subcommittee agreed in principle.
Recommendation	This proposal specifies that area separation walls need to be insulated. It was well received by SC with a small minority having issues with the use of "area separation wall" instead of "common wall" and with contradictions withing the insulation provisions. Ultimately SC overwhelmingly voted to Disapprove.
Vote	15 yes / 1 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <u>X</u> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-052-21 Air Sealing Shower Tub Fireplace
CDP ID #	377
Code	IECC RE
Code Section(s)	R402.4.1.1 table New Section n
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Proposal clarifies that fireplaces need to be insulated like exterior walls. The proponent modified based on SC feedback and the modification was well received by SC who voted unanimously to approve as modified by M-1.
Vote	18 yes / 0 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

**Table R402.4.1.1
AIR BARRIER AND INSULATION INSTALATION .**

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
<p><i>Modified Version 1</i> Shower, tub, and fireplaces adjacent to the building thermal envelope. on exterior walls.</p>	<p>The An air barrier installed at exterior walls adjacent to showers and tubs shall separate <u>insulation in the building thermal envelope</u> exterior insulated framed wall from the showers, or tubs, and fireplaces assemblies.</p>	<p>Exterior <u>framed</u> walls adjacent to showers, and tubs, <u>and fireplace</u> shall be insulated and when insulated with air permeable insulation shall be enclosed by an air barrier assembly.</p>

Cost Statement:

- Although the proposed language is designed primarily to clarify the requirements of the code in this section, specifically regarding the area created by framed fireplace boxes, it will increase the cost of construction. The proposal also addresses the need to air seal tub and shower drain trap penetrations which have been demonstrated to largely contribute to air infiltration and building durability through condensation control.



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-053-21 Air Sealing Utility Boxes
CDP ID #	378
Code	IECC RE
Code Section(s)	R402.4.1.1 table New Section n
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Revised by proponent to meet suggestions from SC. Latest version was well received, meeting initial intention. With confusion alleviated the subcommittee voted to Approve as Modified
Vote	15 yes / 4 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee_X _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

REPI53 Electrical, communication, and other equipment boxes, housings, and enclosures

**TABLE R402.4.1.1—continued
AIR BARRIER, AIR SEALING AND INSULATION INSTALLATION^a**

COMPONENT	AIR BARRIER, AIR SEALING CRITERIA	INSULATION INSTALLATION CRITERIA
<p>Electrical /phone box on exterior walls, <u>communication,</u> <u>and other</u> <u>equipment boxes,</u> <u>housings, and</u> <u>enclosures</u></p>	<p>The air barrier shall be installed behind electrical and communication boxes. Alternatively, air-sealed boxes shall be installed.</p> <p><u>Boxes, housings, and enclosures that penetrate the <i>air barrier</i> shall be caulked, taped, gasketed, or otherwise sealed to the <i>air barrier</i> element being penetrated.</u></p> <p><u>All concealed openings into the box, housing, or enclosure shall be sealed.</u></p> <p><u>The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the <i>air barrier</i></u></p> <p><u>Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6</u></p>	<p><u>Boxes, housing, and enclosure shall be buried in or surrounded by insulation</u></p>



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-057-21 Air Barrier Testing
CDP ID #	542
Code	IECC RE
Code Section(s)	R402.4.1.2 New Section n
Location	base
Proponent	Lisa Rosenow lrosenow@evergreen-tech.net
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Subcommittee found language confusing.
Recommendation	The proposal was intended to align residential with commercial air leakage testing standards. However, SC found proposal confusing and votes to disapprove unanimously.
Vote	16 yes / 0 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee __X_____ <input checked="" type="checkbox"/> To Advisory Group _____ <input type="checkbox"/> To Consensus Committee _____ <input type="checkbox"/>
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-066-21 air barrier boxes
CDP ID #	141
Code	IECC RE
Code Section(s)	R402.4.6 New Section n
Location	base
Proponent	Megan Hayes Megan.Hayes@nema.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	The proponent presented a modified version coordinated with REPI 53 that expands the terminology for electrical boxes and simplifies the language pertaining to the use of the referenced standard. There was some debate over the language used. Proposal recommended to be Approved as Modified.
Vote	14 yes / 6 no
Recommendation Date	2/2/2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee_X _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

Revised REPI-66-21

IECC-R: R402.4.6

Proponent: National Electrical Manufacturers Association (NEMA)

Revise text as follows:

R402.4.6 (N1102.4.6) Air-Sealed Electrical and Communication ~~Outlet~~ Boxes ~~(air-sealed boxes). Air-sealed electrical and communication ~~outlet~~ boxes installed in that penetrate the air barrier of the *building thermal envelope* shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. Air-sealed boxes shall be buried in or surrounded by tightly fitted insulation. ~~to limit air leakage between conditioned and unconditioned spaces.~~ Air-sealed ~~electrical and communication outlet~~ boxes shall be tested and marked in accordance with NEMA OS 4. ~~Requirements for Air-Sealed Boxes for Electrical and Communication Applications and shall have an air leakage rate of not greater than 2.0 cfm (0.944 L/s) at a pressure differential of 1.57 psf (75 Pa). Electrical and communication outlet boxes shall be marked "NEMA OS 4" or "OS 4" in accordance with NEMA OS 4. Electrical and communication outlet~~ Air-sealed boxes shall be installed ~~per the~~ in accordance with the manufacturer's instructions. ~~and with any supplied components required to achieve compliance with NEMA OS 4.~~~~

Clean version:

R402.4.6 (N1102.4.6) Air-Sealed Electrical and Communication Boxes. Air-sealed electrical and communication boxes that penetrate the *air barrier* of the *building thermal envelope* shall be caulked, taped, gasketed, or otherwise sealed to the *air barrier* element being penetrated. Air-sealed boxes shall be buried in or surrounded by tightly fitted insulation. Air-sealed boxes shall be tested and marked in accordance with NEMA OS 4. Air-sealed boxes shall be installed in accordance with the manufacturer's instructions.

Reason: This editorial revision better aligns the language being used in Table R402.4.1.1 (N1102.4.6) by clarifying the requirements only apply where air-sealed boxes are selected as permitted by Table R402.4.1.1 (N1102.4.1.1).

Cost Impact: There is no increase or decrease cost in construction as this proposal simply adds clarity to the original intent of R402.4.6.



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-074-21 Fireplace Pilot lights
CDP ID #	81
Code	IECC RE
Code Section(s)	R403.1.3 New Section y
Location	base
Proponent	Nicholas O'Neil noneil@energy350.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	
Vote	unanimously
Recommendation Date	2/7/22
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 #	REPI-121-21 Performance Path
CDP ID #	
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Stephen Rosenstock srosenstock@eei.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	Proposal initially offered 2 reference points for source energy factors: IGCC and ASHRAE, after discussion motion was as modified with IGCC reference stricken
Recommendation	Motion to approve as modified (with removal of reference to IGCC)
Vote	17 -1 in favor, 1 abstention
Recommendation Date	Jan 26 th , 2022
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <input checked="" type="checkbox"/> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-122-21 Performance Path
CDP ID #	178
Code	IECC RE
Code Section(s)	R405.2, R405.4, R405.4.1, R405.4.2, TABLE R405.4.2(1) New Section n
Location	base
Proponent	Vladimir Kochkin vkochkin@nahb.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	
Recommendation	See modified language below
Vote	As modified 13-3
Recommendation Date	2/9/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____ X _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

REPI-122 Modification – **new modified language is in yellow**

Building Component	Standard Reference Design	Proposed Design
Heating systems	For other than electric heating without a heat pump: as proposed. Where the proposed design utilizes electric heating without a heat pump, the standard reference design shall be an air source heat pump meeting the requirements of Section C403 of the IECC— Commercial Provisions. Capacity: sized in accordance with Section R403.7.	As proposed
	<u>Fuel Type/Capacity: Same as proposed design</u>	As proposed
	<u>Product class: Same as proposed design</u>	As proposed
	<u>Efficiencies:</u>	As proposed
	<u>Heat pump: Complying with 10 CFR §430.32 (2021)</u>	As proposed
	<u>Furnaces: Complying with 10 CFR §430.32 (2021) and</u> <u>For non-condensing</u> <u>For condensing</u>	<u>Non-condensing as proposed</u> <u>Condensing as proposed</u>
	<u>Boilers: Complying with 10 CFR §430.32 (2021) and</u> <u>For non-condensing</u> <u>For condensing</u>	<u>Non-condensing as proposed</u> <u>Condensing as proposed</u>



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-129-21 ERI On-site renewable backstop
CDP ID #	313
Code	IECC RE
Code Section(s)	R406.3, R406.3.1, R406.3.2 New Section n
Location	base
Proponent	William Fay bill@energyefficientcodes.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	
Recommendation	Approve
Vote	Approve 11-7
Recommendation Date	2/9/22
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 #	REPI-128-21 ERI envelope backstop
CDP ID #	490
Code	IECC RE
Code Section(s)	R406.3, R406.3.1, R406.3.2 New Section n
Location	base
Proponent	Joe Cain JoeCainPE@gmail.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	
Recommendation	Deny in favor of REPI-129-21
Vote	Disapproval
Recommendation Date	2/9/22
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 #	IRCPI-005-21 Performance source energy multiplier
CDP ID #	524
Code	IRC
Code Section(s)	R405.2, N1105.2 New Section n
Location	base
Proponent	James Ranfone jranfone@aga.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	
Recommendation	
Vote	Disapproval 16-0
Recommendation Date	2/9/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <input checked="" type="checkbox"/> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CEPI-017-21 Part II Roof Replacement
CDP ID #	412
Code	IECC RE
Code Section(s)	C202 New Section n
Location	base
Proponent	Marcin Pazera mpazera@pima.org
Proposal Status	SC rev
Subcommittee	RE Existing Buildings
Subcommittee Notes	Technical issues with terminology
Recommendation	Paul Demers – motion to disapprove Stephen Dent – second
Vote	Unanimous pass for disapproval
Recommendation Date	
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 #	REPI-147-21 Roof Replacement exception
CDP ID #	370
Code	IECC RE
Code Section(s)	R503.1, R503.1.1 New Section n
Location	base
Proponent	Bill McHugh bill@mc-hugh.us
Proposal Status	SC rev
Subcommittee	RE Existing Bldg
Subcommittee Notes	Improve language to decrease responsibility proposal places on local building official.
Recommendation	Seth Wiley – motion to disapprove Paul Demers – second
Vote	Unanimous, motion to disapproved carries
Recommendation Date	2/8/2022
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 #	REPI-148-21 Building Envelope air barrier
CDP ID #	348
Code	IECC RE
Code Section(s)	R503.1.1 New Section n
Location	base
Proponent	Darren Meyers dmeyers@ieccode.com
Proposal Status	SC rev
Subcommittee	RE Existing Building
Subcommittee Notes	Need for broader code coordination
Recommendation	Seth Wiley - motion to disapprove Paul Demers – second
Vote	5 in favor, 1 oppose, motion to disapprove passes
Recommendation Date	2/8/2022
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 #	REPI-149-21 Roof Membrane Peel Replacement
CDP ID #	369
Code	IECC RE
Code Section(s)	R503.1.1 New Section n
Location	base
Proponent	Bill McHugh bill@mc-hugh.us
Proposal Status	SC rev
Subcommittee	RE Existing Bldg
Subcommittee Notes	Technical items need clarification
Recommendation	Jim Z – motion to approve as written – no second Seth Wiley – motion to disapprove Paul Demers – second
Vote	5 for, 2 against, 1 abstain, motion to disapprove passes
Recommendation Date	2/8/2022
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 #	CEPI-012-21 Part II Biomass definition
CDP ID #	249
Code	IECC RE
Code Section(s)	R202 New Section n
Location	base
Proponent	Diana Burk diana@newbuildings.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	Follow approval from commercial committee. Modification to remove comma between biofuel and feedstock
Vote	As modified 10-2
Recommendation Date	2.14.22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <input checked="" type="checkbox"/> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-112-21 Part I Lighting control system large home
CDP ID #	487
Code	IECC RE
Code Section(s)	R404.4 New Section y
Location	base
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	
Vote	As modified
Recommendation Date	2/14/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <u> X </u> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-112-21 Part II Lighting control system large home
CDP ID #	581
Code	IRC
Code Section(s)	N1104.4 New Section y
Location	base
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	
Vote	As modified
Recommendation Date	2/14/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee <u> X </u> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

Topic: (for internal use)

Lighting control system for large homes

Summary Purpose/Reason/Background (for internal use)

Require large homes to install lighting control system.

ICC Code or Standard: (list the code the change applies to, ex. IECC, IRC, IEBC)

IECC

Affected Code Section: (list code sections to be revised or added)

R404.4

Proposed Change: (paste in code text, underline new text, ~~strikethrough deleted text~~. Use one of the following at the beginning of each proposed section of code text as appropriate)

1. Add new definition as follows:
2. Revise as follows:
3. Add new text as follows:

Add new text as follows:

Dwelling units with greater than 5000 ft² (460 m²) of conditioned floor area shall have a lighting control system that has the capability to turn off all permanently installed interior luminaires from a control located at an exit door or have a lighting control system that has the capability to turn off all permanently installed interior lighting from remote locations.

Exceptions:

1. Up to 5% of the total lighting power may remain uncontrolled.
2. Spaces where lighting is controlled by a count-down timer or occupant sensor control.

Reason: (provide substantiation reason statements for the proposal)

This proposal is similar to what in ASHRAE 90.2. The intent to require lighting in large homes to have a control system or smart light fixtures such that the lighting can be shutoff from the exit or remote locations (e.g., using a phone app). This control strategy will save energy by allowing occupants to shutoff the lighting as they leave (or while they are away) so that unneeded lighting is not left on when no one is home. Note that the intent is for lighting to have the capability to be shutoff, not mandate lighting be shutoff.

Bibliography: (cite sources, studies, reports and supporting information)

ASHRAE 90.2 section 7.5.3.

<https://www.bpa.gov/EE/Technology/EE-emerging-technologies/Projects-Reports-Archives/Documents/FutureResLightingPaper%20FINAL%20DRAFT%20docx%20-%202018-08-15.pdf> [11% lighting savings from energy management system, cost is \$150 at high end. See page 37]

The median size of a completed single-family house was 2,261 square feet.
<https://www.census.gov/construction/chars/highlights.html>

[CEE_LightingMarketCharacterization.pdf \(cee1.org\)](#)

Cost Impact: (select one of the following statements. Where desired, add supporting information)

1. The code change proposal will not increase or decrease the cost of construction
2. The code change proposal will decrease the cost of construction
3. The code change proposal will increase the cost of construction

The code change proposal will increase the cost of construction (but many of these homes will install a lighting control system or smart light fixtures anyway so may not be an increase in real world application). Cost effective based on ASRHAE 90.1 scalar ratio method. See separate cost effectiveness analysis file.



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	REPI-102-21 Part I Lighting efficacy
CDP ID #	460
Code	IECC RE
Code Section(s)	R404.1 New Section n
Location	base
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	
Vote	Approve 11-0-1
Recommendation Date	2/14/22
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 #	REPI-102-21 Part II Lighting efficacy
CDP ID #	579
Code	IRC
Code Section(s)	N1104.1 New Section n
Location	base
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	
Vote	Approve 11-0-1
Recommendation Date	2/14/22
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 #	REPI-100-21 High Efficacy light definition and equipment
CDP ID #	314
Code	IECC RE
Code Section(s)	R404.1 New Section n
Location	base
Proponent	Steven Rosenstock srosenstock@eei.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	Disapprove In favor of language in REPI-102 Part I
Vote	Disapproval 11-0-1
Recommendation Date	2/14/22
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 #	REPI-103-21 Lighting high efficacy light sources
CDP ID #	140
Code	IECC RE
Code Section(s)	R404.1 New Section n
Location	base
Proponent	Megan Hayes Megan.Hayes@nema.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	Disapprove In favor of language in REPI-102 Part I
Vote	Disapprove 11-0-1
Recommendation Date	2/14/22
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____ X _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

