



## International Energy Conservation Code Consensus Committee-Residential

### Draft Meeting Agenda (3/15/23 posting)

[Webex Meeting Link](#)

March 16, 2023  
2:00 PM EST to 5 PM EST (3 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.
  - d. ICC [Antitrust Compliance Guideline](#)
3. Roll Call.
4. Approve Agenda
5. Approve Minutes-March 9, 2023
6. Administrative issues-staff
7. Action Items  
Tabled items from 3/9

RED1-114-22(RECs in a minimum code)

RED1-363-22(Solar zone update)

REPCD1-21-22(Solar ready public comment)

RED1-92-22(Construction docs solar-ready system)

RED1-93-22(Solar ready systems)

RED1-94-22(Solar system ready)

RED1-215-22(Framing factor steel)

Electric approve 7-3

Electric disapprove 9-1-0

Electric disapprove 9-0

Electric disapprove 10-0

Electric as modified 10-0

Envelope disapprove 10-2-5

RED1-229-22(Common walls)	Envelope as modified 17-0-1
IRCED1-6-22(Common wall sealing)	Envelope disapprove 16-0-0
RED1-246-22(Roof solar reflectance)	Envelope disapprove 15-0-3
RED1-216-22(Basement walls)	Envelope disapprove 10-8-1
RED1-217-22(Basement walls)	Envelope approve 10-8-1
RED1-219-22(Component general requirements)	Envelope approve 10-6-2
New items for review	
RED1-89-22(Renewables contract length)	Modeling as modified 13-1-2
REPCD1-1-22	
RED1-38-22(Annual energy cost performance exception)	Modeling disapproved 11-1-1
RED1-52-22(Simulated performance compliance)	Modeling disapproved 11-1-1
RED1-44-22(R405.2.3 exception)	Modeling disapproved 13-1-2
RED1-39-22(Exception for R405.2)	Modeling disapproved 13-0-0
RED1-48-22(Simulated performance compliance)	Modeling disapproved 12-1-0
RED1-50-22(Simulated performance compliance)	Modeling disapproved 12-1-0
RED1-53-22(Simulated performance compliance)	Modeling disapproved 12-1-0
RED1-45-22(R405.2.3 modification)	Modeling disapproved 12-1-0
RED1-37-22(Annual energy cost performance)	Modeling disapproved 12-1-0
RED1-51-22(Simulated performance compliance)	Modeling disapproved 12-1-0
REPCD1-2-22	
RED1-69-22(ERI path stringency)	Modeling disapproved 10-6-2
RED1-339-22(Ducts in conditioned space)	HVACR as modified 10-0/
Modeling as modified 9-6	
RED1-301-22(Ducts in conditioned space)	HVACR disapproved 5-3-1
RED1-60-22(Duct location inside conditioned space)	HVACR disapproved 8-0-1/
Modeling disapproved 7-6-2	
RED1-338-22(Duct location edit)	HVACR disapproved 8-0-2/Modeling approved 8-6-1
RED1-32-22(HVAC register boots)	HVACR approve 9-0-0
RED1-279-22 PI & II(Pilot light definitions)	HVACR disapproved 10-0
RED1-283-22(Pilot light definitions)	HVACR approve 7-1-1
RED1-298-22(Pilot reference)	HVACR approved 10-0
RED1-296-22(Continuously burning pilot light)	HVACR as modified 9-0-0
RED1-297-22(Pilot light exception)	HVACR approve 5-0-4
RED1-332-22(Eliminate gas lighting)	HVACR disapprove 8-0-2
IRCED1-11-22(Gas lighting equipment)	HVACR disapproved 9-0-0
RED1-331-22(Gas lighting exception)	HVACR disapproved 8-1-1
RED1-333-22(Gas lighting exception)	HVACR as modified 5-3-1
RED1-288-22 PI & II(Gas fireplace)	HVACR disapproved 10-0-0
RED1-286-22(Consolidate gas fireplace requirements)	HVACR as modified 8-0-1
IRCED1-10-22(Boiler reset)	HVACR approve 8-0-1

8. Other business.

9. Upcoming meetings. March 23 at 2 PM EST

10. Adjourn.

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

**Join by phone**

1-844-740-1264 USA Toll Free

+1-415-655-0003 US Toll

FOR ADDITIONAL INFORMATION, PLEASE  
CONTACT:

Kristopher Stenger, AIA, CBO  
Director of Energy Programs  
International Code Council  
[kstenger@iccsafe.org](mailto:kstenger@iccsafe.org)



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-114-22 Renewable Energy Certificate
CDP ID #	
Code	IECC RE
Code Section(s)	Definition
Location	
Proponent	Residential Electrical, Power, Lighting and Renewables Subcommittee
Proposal Status	
Subcommittee	RE EPLR
Subcommittee Notes	
Recommendation	Approve as submitted
Vote	7-3-0
Recommendation Date	2/17/2023
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 #	RED1-363-22 On-site renewable energy
CDP ID #	
Code	IECC RE
Code Section(s)	R404.4; Definitions
Location	
Proponent	Residential Electrical, Power, Lighting and Renewables Subcommittee
Proposal Status	
Subcommittee	RE EPLR
Subcommittee Notes	Requiring solar PV-ready is better as a first step that requiring that a solar PV system be installed. This proposal would likely have little chance of passing the full Consensus Committee.
Recommendation	Disapprove
Vote	9-1-0
Recommendation Date	2/17/2023
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 #	RED1-92-22 Solar Ready System
CDP ID #	
Code	IECC RE
Code Section(s)	R103.2.2
Location	
Proponent	Residential Electrical, Power, Lighting and Renewables Subcommittee
Proposal Status	
Subcommittee	RE EPLR
Subcommittee Notes	This proposal would eliminate the requirement for a solar-ready zone in new construction.
Recommendation	Disapprove
Vote	9-0-0
Recommendation Date	2/17/2023
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 #	RED1-093-22 Solar-ready systems
CDP ID #	1237
Code	IECC RE
Code Section(s)	R103.2.2
Location	base
Proponent	Tom Ortiz tortiz@npga.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	Based on previous action on RED1-11-22
Vote	Disapprove 12-0
Recommendation Date	2/17/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-094-22 Solar-system ready
CDP ID #	972
Code	IECC RE
Code Section(s)	R103.2.2
Location	base
Proponent	Alex Smith asmith@nahb.org
Proposal Status	SC rev
Subcommittee	RE Elec, Light
Subcommittee Notes	
Recommendation	<p>Primarily editorial. Coordinates structural language with IRC.</p> <p>Modification  <b>R103.2.2 Solar-ready system.</b> The construction documents shall <del>provide details for</del> <u>indicate</u> dedicated roof area <u>for a solar-ready zone, structural design for roof dead load, and roof live load, wind loads ground snow load,</u> and routing of conduit or pre-wiring from solar-ready zone to electrical service panel or plumbing from solar-ready zone to service water heating system.</p>
Vote	Approve as modified 12-0
Recommendation Date	2/17/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-215-22 Framing factor with steel frame u-factor
CDP ID #	1238
Code	IECC RE
Code Section(s)	R402.2.7
Location	base
Proponent	Jay Crandell jcrandell@aresconsulting.biz
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Proponent states intent is to clarify but provided not substantiation and does not clarify as intended. It also does not provide a cost or energy efficiency substantiation.
Vote	10-2-5 disapproval
Recommendation Date	2/22/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-229-22 Common walls
CDP ID #	1041
Code	IECC RE
Code Section(s)	R402.5.1.1 table
Location	base
Proponent	Jeremy Wright    jeremy@jwrighthomedesign.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Resolves potential conflict in draft 1 language for fire-resistance rated wall assemblies and provides more clarity.
Vote	17-0-1 approve as modified
Recommendation Date	2/22/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee_X_____
Consensus Committee	
Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

RED1-229 - Modification

**TABLE R402.5.1.1 AIR BARRIER, AIR SEALING AND INSULATION  
INSTALLATION<sup>a</sup>**

Portions of table not shown remain unchanged.

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
Common walls or double walls separating attached single-family dwellings or townhouses	<p><del>Air sealing materials recognized in a listed fire-resistance rated common wall or double wall design and installed in accordance with the listing, or air sealing materials recognized in an approved design, shall be used.</del></p> <p><del>Common walls or double walls shall be considered an exterior wall for the purposes of air barrier and air sealing application of this Table.</del></p> <p>An interior air barrier shall be provided. Air sealing at the intersections with building thermal envelope shall be provided.</p> <p>Where installed in a fire-resistance rated wall assembly, air sealing materials shall comply with one of the following:</p> <ol style="list-style-type: none"> <li>1. be in accordance with an <i>approved</i> design for the fire-resistance rated assembly.</li> <li>2. be supported by <i>approved</i> data that shows the assembly as installed complies with the required fire-resistance rating.</li> </ol>	<p><del>Insulation materials recognized in the <u>approved</u> listed common wall or double-wall design and installed in accordance with the listing, or insulation materials recognized in the <u>approved</u> <u>approved</u> design, shall be <u>permitted to be</u> used.</del></p>



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	IRCED1-6-22 common wall sealing
CDP ID #	1473
Code	IRC
Code Section(s)	N1102.5.1.1 table
Location	base
Proponent	Rob Brooks rob@rtbrooks.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Request to disapprove by proponent based on approval (AM) of RED1-239.
Vote	16-0
Recommendation Date	2/22/23
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 #	RED1-246-22 Roof solar reflectance
CDP ID #	1207
Code	IECC RE
Code Section(s)	R402.7
Location	base
Proponent	Jacob Miller jmillier@smartsurfacescoalition.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Technical justification provided does not address energy savings. Not cost justified as proposed.
Vote	15-0-3 disapprove
Recommendation Date	2/22/23
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 #	RED1-216-22 Basement walls
CDP ID #	1006
Code	IECC RE
Code Section(s)	R402.2.9
Location	base
Proponent	Robby Schwarz    robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	
Recommendation	Fails to add clarity and could potentially cause confusion. Fails to add value.
Vote	10-8-1 disapproval
Recommendation Date	2/22/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee_X_____
Consensus Committee	
Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	

# RED1-216-22 – Modification not heard by subcommittee

**Proponents:** Robert Schwarz, representing BUILDTank, Inc. (robby@btankinc.com)

## 2024 International Energy Conservation Code [RE Project]

Revise as follows and as modified in **Blue**:

**R402.2.9 Basement walls.** Basement walls shall be insulated in accordance with Table R402.1.3

**Exception:** Basement walls associated with unconditioned basements where all of the following requirements are met:

1. The floor overhead, including the underside stairway stringer leading to the basement, is insulated in accordance with ~~Section Table~~ Table R402.1.3 and ~~applicable provisions of Sections R402.2 and R402.2.8.~~
2. There are no uninsulated duct, domestic hot water, or hydronic heating surfaces exposed to the basement.
3. There are no HVAC supply or return diffusers serving the basement.
4. The walls surrounding the stairway and adjacent to conditioned space are insulated in accordance with Section R402.1.3 and applicable provisions of Section R402.2.
5. The door(s) leading to the basement from conditioned spaces are insulated in accordance with Sections R402.1.3 and applicable provisions of Section R402.2, and weather-stripped in accordance with Section R402.5.
6. The building thermal envelope separating the basement from adjacent conditioned spaces complies with Section R402.5.

### R402.2.9.1 Basement wall insulation installation

Where *basement walls enclosing conditioned basements* are insulated, the insulation shall ~~be installed from the top of the basement wall down to 10 feet (3048 mm) below grade or to the basement floor, whichever is less.~~ comply with the following, or shall be installed in accordance with the proposed design, as applicable.

1. Where exterior basement wall insulation is installed, it shall be permanently attached to the wall and extend downward from the sill plate to not less than the base of the foundation wall footing or 10 feet, whichever is less.
2. Where interior basement wall insulation is installed, it shall be permanently attached to the foundation wall and extend downward from the sill plate at the top of the foundation wall to the finished floor below.

Reason Statement:

This proposal was disapproved by a very close vote of 10/8 after significant discussion that provided guidance for the modifications made above in blue. The modification is made addresses three points that were made.

1. Some of the language was modified to mirror language in R402.2.11.1 Crawl space wall insulation installation which also breaks out the installation of insulation on the interior and exterior of the foundation wall.
2. It was pointed out that using the word footing was unclear since one might not know where on the footing to stop the installation of the exterior insulation. To create better alignment with the new crawl space foundation wall insulation section footing has been removed and replaced with "base of the foundation wall" since foundation walls may or may not be poured on a footing.
3. The charging language if R402.2.9.1 was modified in recognition that performance approaches for code compliance may allow only partial coverage of the foundation wall with insulation,

Section R402.2.9.1 Basement wall insulation installation is specific to *basement walls enclosing conditioned basements* because the proceeding section exception is specific to Basement walls associated with unconditioned basements. The language needs to be clear that R402.2.9.1 is defining the building thermal envelope to include the basement as part of the conditioned space.

Modifications have been made to section R402.2.9.1 per guidance from the envelope subcommittee to align the basement insulation installation requirements with the crawl space wall insulation installation that was approved by the subcommittee unanimously.

In section R402.2.9 Basement Walls the exception defines an unconditioned basement and refers to a section of code that is actually a table and then should point directly to floor insulation installation to separate the unconditioned basement from the conditioned living space above. The proposal fixes this confusion.



Foundation walls that define a conditioned basement can and often are insulated from the exterior. The language has been changed in this proposal to provide requirements for installation for not only interior application but also exterior insulation installation. Both installs require full coverage from the sill plate downward as was done with the stricken language to ensure full coverage.

#### Cost

This proposal does not impact the cost of construction. Instead, it provides greater flexibility in how basement assemblies can be insulated. It also better defines unconditioned basements and how to insulate from the interior or exterior.



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-217-22 Basement walls
CDP ID #	1016
Code	IECC RE
Code Section(s)	R402.2.9.1
Location	base
Proponent	Alex Smith asmith@nahb.org
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Motion to disapprove failed
Recommendation	Clarifies the relationship between the prescriptive path and both performance paths regarding basement walls.
Vote	10-8-1 approval
Recommendation Date	2/22/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee <u> X </u> _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

## RED1-217-22 – Modification not heard by subcommittee

Proponents: Alex Smith, representing NAHB (asmith@nahb.org)

### 2024 International Energy Conservation Code [RE Project]

#### Revise as follows:

**R402.2.9.1 Basement wall insulation installation.** Where basement walls are insulated, the insulation shall be installed from the top of the basement wall down to 10 feet (3048 mm) below grade or to the basement floor, whichever is less, or in accordance with the *proposed design*, as applicable.

*The remainder of the proposal is removed because it's errata per ICC staff.*

#### Reason for the modification:

- Reconciles with errata for Tables R405.2 and R406.2.
- It is proposed to italicize the term “proposed design” at the request of the subcommittee because it’s a defined term. However, the term “proposed design” is not always italicized throughout the code and a coordination effort may be needed in the future.
- The term “proposed design” is used in a similar manner in Section R402.2.10.1 Slab-on-grade.



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-219-22 Component general requirements
CDP ID #	1011
Code	IECC RE
Code Section(s)	R402.4.1.1 table
Location	base
Proponent	Robby Schwarz    robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE Envelope
Subcommittee Notes	Motion to disapprove failed
Recommendation	Provides needed clarity to commonly misunderstood building envelope insulation and air barrier installation requirements.
Vote	10-6-2 for approval
Recommendation Date	2/22/23
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 #	RED1-089-22 Renewables contract length
CDP ID #	1072
Code	IECC RE
Code Section(s)	RC103.3
Location	appendix
Proponent	Diana Burk     diana@newbuildings.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-089-22 was submitted by Diana Burk modifying Power Purchase Agreement to Renewable energy contract with a duration of not less than 15 years.
Recommendation	<b>Approve As Modified</b> Motion: Jay Crandell Second: Shilpa Surana Reason Statement: Consistent with duration of purchased power in other parts of code and simplify requirement to avoid equation of original proposal.
Vote	Approve 13-1 [2 Abstain, 5 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-038-22 Annual Energy Cost performance Exception
CDP ID #	1170
Code	IECC RE
Code Section(s)	R405.2
Location	appendix
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-038-22 was submitted by Eric Tate removing all K tables and providing a simple reference to ASHRAE Standard 105. RED1-038,044, 052 combined for voting.
Recommendation	<b>Disapprove As Modified</b> Motion: Brain Shanks Second: Aaron Gary Reason Statement: The proposal lacks information to provide guidance to the modelers.
Vote	Disapprove 11-1 [1 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-052-22 Simulated performance compliance
CDP ID #	1410
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Ted Williams ngdllc@outlook.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-052-22 was submitted by Subcommittee member Ted Williams removing all K tables and providing a simple reference to ASHRAE Standard 105. RED1-038,044, 052 combined for voting.
Recommendation	<b>Disapprove As Modified</b> Motion: Brain Shanks Second: Aaron Gary Reason Statement: The proposal lacks information to provide guidance to the modelers.
Vote	Disapprove 11-1 [1 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-044-22 R405.2.3 exception correction
CDP ID #	1111
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Gary Heikkinen gary.heikkinen@nwnatural.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-044-22 was submitted by Gary Heikkinen including Table K6 with other tables in ASHRAE Std 105-2021 . RED1-038,044, 052 combined for voting.
Recommendation	<b>Disapprove As Modified</b> Motion: Ted Williams Second: Vladimir Kochkin Reason Statement: The proposal lacks information to provide guidance to the modelers.
Vote	Approve 1-13 [1 Abstain,6 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-039-22 Exception for R405.2
CDP ID #	1065
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Steven Rosenstock srosenstock@eei.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-039-22 was submitted by Steve Rosenstock proposing to use site energy as the basis of comparison.
Recommendation	<b>Disapprove As Modified</b> Motion: Gayathri Vijayakumar Second: Ted Williams Reason Statement: 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.
Vote	Disapprove 13-0 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____

Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-048-22 Simulated Building performance
CDP ID #	1382
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Kevin Duell kevin.duell@nwnatural.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-048-22 was submitted by Kevin Duell revising Part 3 and Exception 1
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Viajayakumar Second: Aaron Gary</p> <p>Reason Statement: SC voted to 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, the SC was 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 the SC agreed to vote on that change in the context of RED1-53.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-050-22 Simulated performance compliance
CDP ID #	1383
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Ian Casey     ian.casey@nwnatural.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-050-22 was submitted by Ian Casey suggesting to use Table K2 and K6 to avoid unnecessary cost burden.
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Vijayakumar  Second: Aaron Gary  Reason Statement: SC voted to 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, the SC was 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 the SC agreed to vote on that change in the context of RED1-53.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-053-22 Simulated performance compliance
CDP ID #	1491
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Renee Lani rlani@apga.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-053-22 was submitted by Renee Lani proposing homes with fuel-burning fuel burning appliances should be the same
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Vijayakumar          Second: Vladimir Kochkin          Reason Statement: SC voted to 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, the SC was not convinced to decrease the required savings from 80% to 85% for homes with fuel burning appliances without modeled data to support the change.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-045-22 R405.2.3 modification
CDP ID #	1105
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Gary Heikkinen gary.heikkinen@nwnatural.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-045-22 was submitted by Gary Heikkinen proposing the proposed design is less than or equal to the better performance standard of 80% of the annual energy cost of the standard design for all buildings.
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Vijayakumar          Second: Alamelu Brooks</p> <p>Reason Statement: SC voted to 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, the SC was not convinced to increase the required savings from 85% to 80% for homes without fuel burning appliances without modeled data to support the change.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	

Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-037-22 Annual Energy Cost Performance
CDP ID #	1454
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-037-22 was submitted by Eric Tate proposing to eliminate larger increment of cost energy reduction for fuel burning space and water heating appliances.
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Vijayakumar          Second: Alamelu Brooks</p> <p>Reason Statement: SC voted to 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, the SC was not convinced to increase the required savings from 85% to 80% for homes without fuel burning appliances without modeled data to support the change.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____
Consensus Committee	

Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-051-22 Simulated Performance Compliance
CDP ID #	1406
Code	IECC RE
Code Section(s)	R405.2
Location	base
Proponent	Ted Williams      eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECPI-051-22 was submitted by Econ Subcommittee member Ted Williams proposing to eliminate the bias in favor of electric space heating and water heating is likely to increase carbon emissions
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Gayathri Vijakumar          Second: Alamelu Brooks          Reason Statement: SC voted to 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, the SC was not convinced to increase the required savings from 85% to 80% for homes without fuel burning appliances without modeled data to support the change.</p>
Vote	Disapprove 12-1 [0 Abstain,8 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-069-22 ERI path stringency
CDP ID #	1349
Code	IECC RE
Code Section(s)	R406.5 table
Location	base
Proponent	Amy Boyce amy.boyce@imt.org
Proposal Status	SC rev
Subcommittee	RE Econ, Model, Metric
Subcommittee Notes	RECP1-069-22 was submitted by Amy Boyce making more stringent Energy Rating Index with OPP column values based on climate zones
Recommendation	<p><b>Disapprove As Modified</b></p> <p>Motion: Amy Boyce Second: Rob Salcido</p> <p>Reason Statement: 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.</p>
Vote	Approve 6-10 [1 Abstain,4 Not Present]
Recommendation Date	02/28/2023
Next Step	To Subcommittee _____ To Advisory Group _____ To Consensus Committee _____
Consensus Committee	

Committee Response	
Vote	Affirmative_____ Negative_____ Table_____ To Subcommittee_____
Date	





## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-339-22 Ducts in conditioned space
CDP ID #	1477
Code	IECC RE
Code Section(s)	R405.4.2(1) Table
Location	base
Proponent	Jeremy Williams     jeremy.williams@ee.doe.gov
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	
	Approve as modified 10-0-0
Vote	HVACR Approve as modified 10-0-0/Modeling as modified 9-6
Recommendation Date	3/13/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

# RED1-339-22 MODIFICATION

Replace RED1-339-22 with the following, which contains just the red edits to the Duct Location row of the Thermal Distribution Systems section and is shown in legislative format vs IECC 2024 PCD1-UPDATED w ERRATA:

**TABLE R405.4.2(1) SPECIFICATIONS FOR THE STANDARD REFERENCE AND PROPOSED DESIGNS**

BUILDING COMPONENT	STANDARD REFERENCE DESIGN				PROPOSED DESIGN
Thermal distribution systems	Duct location: <del>same as proposed design.</del>				Duct location: as proposed.
	Foundation Type	Slab on grade	Unconditioned crawlspace	Basement or conditioned crawlspace	
	Duct location (supply and return)	One-story building: 100% in unconditioned attic  All other: 75% in unconditioned attic and 25% inside conditioned space	One-story building: 100% in unconditioned crawlspace  All other: 75% in unconditioned crawlspace and 25% inside conditioned space	<del>75%</del> 75% inside conditioned space  <del>25%</del> 25% unconditioned attic	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-301-22 Ducts in conditioned space
CDP ID #	1476
Code	IECC RE
Code Section(s)	R403.3
Location	base
Proponent	Jeremy Williams jeremy.williams@ee.doe.gov
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	<p>Discussion started with a motion and a second to approve. Subcommittee members and interested parties spoke in favor of the proposal but 50 percent of the members and interested parties spoke against the proposal.</p> <p>Highlighted comments that stand out:</p> <p>Against: studies by field validated by field study must be conducted before this proposal is ready.</p> <p>For: DOE explained that PNNL confident of energy savings with modeling</p> <p>For: Multiple studies to positive impact of approving proposal. Some states adopt ducts required in conditioned space.</p> <p>Against: 301 missing some steps and it is better to conduct more work and move this proposal to the 2027 IECC.</p> <p>Against: The proposal covers all climate zones- recommend only for climate zones 4 and up.</p> <p>After 45 minutes of discussion a member of the subcommittee request CALL THE QUESTION. Motion to approve vote 3,5,1 Motioned failed Motion and a second to DISAPPROVE- A bit more discussion but in the end the motion carried with a vote of 5,3,1</p>
Recommendation	Subcommittee recommendation is Disapproval
Vote	5/3/1
Recommendation Date	2/27/2023

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 #	RED1-60-22 Duct location inside conditioned space
CDP ID #	1315
Code	IECC RE
Code Section(s)	R405.4.2(1) Table
Location	base
Proponent	Amy Boyce amy.boyce@imt.org
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	Disapproved based on committee recommendation on RED1-339-22
Vote	HVACR Disapproved 8-0-1/ Modeling Disapproved 7-6-2
Recommendation Date	3/13/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-338-22 Duct location edit
CDP ID #	1343
Code	IECC RE
Code Section(s)	R405.4.2(1) Table
Location	base
Proponent	Amy Boyce amy.boyce@imt.org
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	Disapproved based on committee recommendation on RED1-339-22  Modeling reason: restores baseline to "as proposed" as a no-harm solution to avoid encouraging moving ducts inside condition space and then trade-off the condition space it was moved inside of. Also, avoids somewhat arbitrary assumptions on baseline conditions for ductwork location and practices.
Vote	HVACR Disapproved 8-0-2/ Modeling Approved 8-6-1
Recommendation Date	3/13/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____  To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-32-22 HVAC register boots errata
CDP ID #	1012
Code	IECC RE
Code Section(s)	R402.4.1.1 table
Location	base
Proponent	Robby Schwarz robby@btankinc.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion and a second opened the proposal to discussion. Interested party stated during the first round a similar proposal passed REPI-050). Comments were positive and there was not much discussion.
Recommendation	Subcommittee proposal is to approve
Vote	9/0/0
Recommendation Date	2/27/2023
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 #	RED1-279-22 PI & II Pilot light definitions
CDP ID #	1155
Code	IRC
Code Section(s)	N1101.6
Location	base
Proponent	Fredric Zwerg fredric.zwerg@swgas.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion and a second to disapprove and defer to Proposal 283 and 298.
Recommendation	Motion to disapprove
Vote	10/0/0
Recommendation Date	2/13/2023
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 #	RED1-283-22 Pilot light definitions
CDP ID #	1270
Code	IECC RE
Code Section(s)	R202
Location	base
Proponent	Shannon Corcoran SCorcoran@aga.org
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion to approve with a second. Discussion positive with Proponent Shannon Corcoran providing code sections before the Proposal is heard by consensus
Recommendation	Motion to approve
Vote	7/1/1
Recommendation Date	2/13/2023
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	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-298-22 Pilot reference
CDP ID #	1294
Code	IECC RE
Code Section(s)	R403.1.3
Location	base
Proponent	Shannon Corcoran SCorcoran@aga.org
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion to approve with a second. Much discussion. Proponent Shannon Corcoran agree to add sections of the code before the proposal is heard by Main
Recommendation	Motion to approve
Vote	10/0/0
Recommendation Date	2/13/2023
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 #	RED1-296-22 Continuously burning pilot light
CDP ID #	1441
Code	IECC RE
Code Section(s)	R403.1.3
Location	base
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Discussion started with a motion to approve and a second. Little discussion. There was a comment about the proponent considering withdrawal as 297 is close to identical
Recommendation	Subcommittee recommendation to approve "as modified"
Vote	9/0/0
Recommendation Date	2/27/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee_x _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

# RED1-296-22

IECC: R403.1.3

**Proponents:**

Eric Tate, representing Atmos Energy (eric.tate@atmosenergy.com)

2024 International Energy Conservation Code [RE Project]

**Revise as follows:**

R403.1.3 Continuously burning pilot light.

Gas fireplace systems ~~are~~ shall not ~~permitted~~ to be equipped with a continuously burning pilot light.

**Exceptions:**

**1.** Any fireplace equipped with an on-demand, intermittent or interrupted ignition pilot light (as defined in ANSI Z21.20) is not considered to have a continuously burning pilot light.

**2.** Gas-fired appliances using pilots within a listed combustion safety device.

**Reason:**

Appliances such as space heaters use continuously burning pilots in oxygen depletion sensors (ODS) as a means of shutting off the appliance in the event that room oxygen is reduced to 18% by volume and as a correlated indoor air quality accumulation of carbon monoxide (CO). Disruption of the stability of the continuously burning pilot within the ODS, caused by oxygen depletion, closes the gas valve shutting of the appliance. Banning continuously burning pilots, *per se*, would disqualify use of ODS systems despite its listing and incorporation in the gas appliance. Changes to alternate means of achieving gas shut off are not currently recognized in standards for safety for gas appliances.

**Cost Impact:**

The code change proposal will neither increase nor decrease the cost of construction.

The proposed language will not affect cost of construction.

---



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-297-22 Pilot light exception
CDP ID #	1392
Code	IECC RE
Code Section(s)	R403.1.3
Location	base
Proponent	Ted Williams ngdllc@outlook.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	approve
Vote	5-0-4
Recommendation Date	2/27/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-332-22 Eliminate gas lighting
CDP ID #	1322
Code	IECC RE
Code Section(s)	R404.1.5
Location	base
Proponent	Adam Berry adam.berry@state.co.us
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Proponent presented on 1/30/2023. Motion to approve failed with a lot of discussion generally negative. After a long discussion David Bixby made a motion to call the question. An additional proposal to table the proposal was accepted with a vote of 6/2/1 Table and bring back up combining this proposal with 331 and 333. Meeting 2/13/2023 Motion and a second ti disapprove
Recommendation	Recommendation is to disapprove
Vote	8/0/2
Recommendation Date	2/13/2023
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 #	IRCED1-11-22 gas lighting equipment
CDP ID #	1162
Code	IRC
Code Section(s)	N1104.1.5
Location	base
Proponent	Fredric Zwerg fredric.zwerg@swgas.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Discussion started with a motion to disapprove. The reason for the motion is because the overall feeling is propped change is not needed
Recommendation	The subcommittee having considered the proposal and the vote is to disapprove
Vote	9/0/0
Recommendation Date	2/27/2023
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 #	RED1-331-22 Gas lighting exception
CDP ID #	1444
Code	IECC RE
Code Section(s)	R404.1.4
Location	base
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion and a second to disapprove
Recommendation	Recommendation from the subcommittee is to disapprove
Vote	8/1/1
Recommendation Date	2/13/2023
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 #	RED1-333-22 Gas lighting exception
CDP ID #	1484
Code	IECC RE
Code Section(s)	R404.1.5
Location	base
Proponent	Ted Williams ngdllc@outlook.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	
Recommendation	approved as modified
Vote	5-3-1
Recommendation Date	
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

# RED1-333-22

IECC: R404.1.5

**Proponents:**

Ted Williams, representing ONE Gas (ngdlc@outlook.com)

2024 International Energy Conservation Code [RE Project]

**Revise as follows:**

R404.1.5 Gas lighting.

Gas-fired lighting appliances shall not be equipped with a continuous pilot ~~continuously-burning pilot ignition systems. Any gas light and shall be equipped with an *on-demand pilot, intermittent ignition or interrupted ignition* (as defined in ANSI Z21.20).~~

**Exceptions:**

- ~~1. Any gas light equipped with an on-demand, intermittent or interrupted ignition (as defined in ANSI Z21.20).~~
2. Gas lights serving historical buildings.

**Reason:**

Exception 1 resolves issues of continuously-burning pilots and associated energy use by requiring ignition only when lighting service is required. Exception 2 addresses historical buildings where gas lighting is important to the ambience of the structure.

**Cost Impact:**

The code change proposal will neither increase nor decrease the cost of construction.  
The proposed exceptions would not affect cost of construction.

---



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	RED1-288-22 PI & II Gas fireplace
CDP ID #	1116
Code	IECC RE
Code Section(s)	R402.5.2.1
Location	base
Proponent	Fredric Zwerg fredric.zwerg@swgas.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion to disapprove with a second. Not needed
Recommendation	Motion and a second to disapprove
Vote	10/0/0
Recommendation Date	2/13/2023
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 #	RED1-286-22 Consolidate gas fireplace requirements
CDP ID #	1104
Code	IECC RE
Code Section(s)	R402.5.2
Location	base
Proponent	Gayathri Vijayakumar      gayathri@swinter.com
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Motion to table until the next meeting of the subcommittee on 2/27/2023 - Discussion opened on 2/27/2023 with a motion and second to approve. Not a lot of discussion. Very well explained by the proponent and the subcommittee agreed.
Recommendation	Subcommittees recommendation is to approve "as modified"
Vote	8/0/1
Recommendation Date	2/27/2023
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee ___x_____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

# RED1-286-22 AS MODIFIED (after RECONSIDER vote)

**Proponents:** Gayathri Vijayakumar, representing Steven Winter Associates, Inc.  
(gvijayakumar@swinter.com)

## 2024 International Energy Conservation Code [RE Project]

### SECTION R402

#### BUILDING THERMAL ENVELOPE

**R402.5.1 Building thermal envelope.** The *building thermal envelope* shall comply with Sections R402.5.1.1 through R402.5.1.3. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

**R402.5.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces *listed* and *labeled* in accordance with UL 127, the doors shall be tested and *listed* for the fireplace.

**Delete without substitution:**

~~**R402.5.2.1 Gas fireplace efficiency.** All gas fireplace heaters rated to ANSI Z21.88 shall be listed and labeled with a fireplace efficiency (FE) rating of 50 percent or greater in accordance with CSA P.4.1. Vented gas fireplaces (decorative appliances) certified to ANSI Z21.50 shall be listed and labeled, including their FE ratings, in accordance with CSA P.4.1.~~

### SECTION R403

#### SYSTEMS

##### R403.1 Controls

**R403.1.1 Programmable thermostat**

**R403.1.2 Heat pump supplementary heat**

**Delete without substitution:**

~~**R403.1.3 Continuously burning pilot light.** Gas fireplace systems are not permitted to be equipped with a continuously burning pilot light.~~

~~**Exception:** Any fireplace equipped with an on-demand, intermittent or interrupted ignition pilot light (as defined in ANSI Z21.20) is not considered to have a continuously burning pilot light.~~

Add new section:

**R403.14 Gas fireplaces.** Gas fireplace systems ~~shall~~ ~~are not permitted to~~ be equipped with a ~~continuously burning pilot light~~ and shall be equipped with an *on-demand pilot, intermittent ignition, or interrupted ignition* (as defined by ANSI Z21.20).

**Exceptions:**

1. ~~Any fireplace equipped with an on-demand pilot, intermittent ignition or interrupted ignition pilot light (as defined in ANSI Z21.20) is not considered to have a continuously burning pilot light.~~

2. Gas-fired appliances using pilots within a listed combustion safety device.

**R403.14.1 Gas fireplace efficiency.** ~~All Vented gas fireplace heaters shall have a fireplace efficiency (FE) rating not less than 50 percent as determined in accordance with CSA P.4.1, and shall be listed and labeled in accordance with rated to CSA/ANSI Z21.88 ° CSA 2.33 shall be listed and labeled with a fireplace efficiency (FE) rating of 50 percent or greater in accordance with CSA P.4.1. Vented gas fireplaces (decorative appliances) shall be listed and labeled in accordance with certified to CSA/ANSI Z21.50 ° CSA 2.22 shall be listed and labeled, including their FE ratings, in accordance with CSA P.4.1.~~

How this new Section R403.14 would appear in the next PC draft, if 286 is approved:

**R403.14 Gas fireplaces.** Gas fireplace systems shall not be equipped with a *continuous pilot* and shall be equipped with an *on-demand pilot, intermittent ignition, or interrupted ignition* (as defined by ANSI Z21.20).

**Exception:**

1. Gas-fired appliances using pilots within a listed combustion safety device.

**R403.14.1 Gas fireplace efficiency.** Vented gas fireplace heaters shall have a fireplace efficiency (FE) rating not less than 50 percent as determined in accordance with CSA P.4.1, and shall be *listed and labeled* in accordance with CSA/ANSI Z21.88 ° CSA 2.33. Vented gas fireplaces (decorative appliances) shall be *listed and labeled* in accordance with CSA/ANSI Z21.50 ° CSA 2.22.

**R404.1.5 Gas Lighting.** Gas-fired lighting appliances shall not be equipped with a *continuous pilot* ~~continuously burning pilot ignition systems and shall be equipped with an on-demand pilot, intermittent ignition, or interrupted ignition (as defined by ANSI Z21.20).~~

**Exception:**

1. Gas lights serving *historic buildings* ~~historical buildings.~~

SECTION R405

SIMULATED BUILDING PERFORMANCE

Revise as follows:

**TABLE R405.2 REQUIREMENTS FOR SIMULATED BUILDING PERFORMANCE**

Portions of table not shown remain unchanged.

SECTION <sup>a</sup>	TITLE
<b>Mechanical</b>	
R403.1	Controls
R403.2	Hot water boiler temperature reset
R403.3	Duct systems
R403.4	Mechanical system piping insulation
R403.5 except Section R403.5.2	Service hot water system
R403.5.2	Hot water pipe insulation
R403.6	Mechanical ventilation
R403.7, except Section R403.7.1	Equipment sizing and efficiency rating
R403.8	Systems serving multiple dwelling units
R403.9	Snow melt and ice system controls
R403.11	Energy consumption of pools and spas
R403.12	Portable spas
R403.13	Residential pools and permanent residential spas
<u>R403.14</u>	<u>Gas fireplaces</u>

a. Reference to a code section includes all the relative subsections except as indicated in the table.

## SECTION R406

### ENERGY RATING INDEX COMPLIANCE ALTERNATIVE

Revise as follows:



**TABLE R406.2 REQUIREMENTS FOR ENERGY RATING INDEX**

Portions of table not shown remain unchanged.

SECTION <sup>a</sup>	TITLE
<b>Mechanical</b>	
R403.1	Controls
R403.2	Hot water boiler temperature reset
R403.3	Duct systems
R403.4	Mechanical system piping insulation
R403.5 except Section R403.5.2	Service hot water systems
R403.5.2	Hot water pipe insulation
R403.6	Mechanical ventilation
R403.7, except Section R403.7.1	Equipment sizing and efficiency rating
R403.8	Systems serving multiple dwelling units
R403.9	Snow melt and ice system controls
R403.11	Energy consumption of pools and spas
R403.12	Portable spas
R403.13	Residential pools and permanent residential spas
<u>R403.14</u>	<u>Gas fireplaces</u>

a. Reference to a code section includes all of the relative subsections except as indicated in the table.

## CHAPTER 6 [RE] REFERENCED STANDARDS

Revise as follows:

### CSA

CSA Group  
8501 East Pleasant Valley Road  
Cleveland, OH 44131-5516

P.4.1-2021 Testing method for measuring fireplace efficiency

R403.14.1

### ANSI

American National Standards Institute  
25 West 43rd Street, 4th Floor  
New York, NY 10036

ANSI Z21.20-2005 (R2016) Automatic Gas Ignition Systems And Components

                    R403.14

Z21-50-2019/CSA 2.22-19 Vented Decorative Gas Appliances

                    R403.14.1

Z21.88-2019/CSA 2.23-19 Vented Gas Fireplace Heaters

                    R403.14.1



## International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	IRCED1-10-22 Boiler reset
CDP ID #	960
Code	IRC
Code Section(s)	N1103.2
Location	base
Proponent	Robert Obrien robrien@noraweb.org
Proposal Status	SC rev
Subcommittee	RE HVACR & WH
Subcommittee Notes	Vote to approve on 1/13/2023 - but subcommittee members and interested parties asked to hear this proposal when 127 and 361 are heard
Recommendation	
Vote	
Recommendation Date	
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee _____
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

