



International Energy Conservation Code Consensus Committee-Commercial

Meeting Agenda (8/16/23 posting)

August 23, 2023

2 PM Eastern to 4 PM Eastern (2 hours)

[Webex Link](#)

Committee Chair: Duane Jonlin

Committee Vice Chair: Emily Hoffman

1. Call to order.
2. Meeting Conduct. Staff
 - 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 – Hoffman
4. Approval of Agenda
5. Approval of Minutes from August 16, 2023
6. Administrative issues.-
7. Action Items.

CE2D-3-23(Above-grade wall definition)	Admin approve 9-1-1
CE2D-46-23(Demand responsive lighting control)	Electrical disapprove 11-0-2
CE2D-47-23(Total Connected interior lighting power edit)	Electrical approve 13-0-0
CE2D-48-23(Lighting power for sleeping unit)	Electrical approve 12-2-1
CE2D-4-23(Emittance definition)	Envelope approve 9-0-5/Admin approve 10-0
CE2D-7-23(Footnote I removed)	Envelope as modified 14-0-1
CE2D-8-23(Tapered roof insulation edit)	Envelope approve 15-0-1
CE2D-9-23(Air leakage numbering)	Envelope approve 13-0-1
CE2D-76-23(ASTM reference)	Envelope approve 13-0-2
CE2D-78-23 PI(NEMA OS 4)	Envelope approve 13-1-1
CE2D-95-23 PI(Building thermal envelope)	Envelope approve 13-0-1
CE2D-24-23(Occupied standby controls)	HVACR as modified 11-0-1
CE2D-5-23(High capacity gas-fired water heater definition)	HVACR as modified 11-0-1
CE2D-27-23(High input service water-heating system)	HVACR disapprove 8-1-2

8. Subcommittee Reports

9. Other business.

10. Next meeting August 30, 2 pm Eastern

11. Adjourn.

FOR FURTHER INFORMATION BE SURE TO VISIT THE ICC WEBSITE:

IECC Commercial Consensus Committee Webpage

<https://www.iccsafe.org/products-and-services/i-codes/code-development/cs/iecc-commercial-consensus-committee/>

ICC Energy webpage

<https://www.iccsafe.org/products-and-services/codes-standards/energy/>

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Kristopher Stenger, AIA, Director of Energy Programs

International Code Council

kstenger@iccsafe.org

Join by meeting number

Meeting number (access code): 2599 815 0421

Meeting password: 3eKk3uWWdi3

Tap to join from a mobile device (attendees only)

1-844-740-1264,,25998150421## USA Toll Free

+1-415-655-0003,,25998150421## US Toll



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CE2D-03-23 Above-grade wall definition
CDP ID #	1747
Code	IECC CE
Code Section(s)	C202
Location	SC rev
Proponent	Greg Johnson gjohnsonconsulting@gmail.com
Proposal Status	SC rev
Subcommittee	CE Admin
Subcommittee Notes	Refer to Envelope SC for their review-Envelope chair stated no action needed from Envelope SC
Recommendation	Reason Statement: The revised definition makes it easier to enforce requirements associate with above-grade walls as the struck-through language is not needed or helpful in understand the term's definition.
Vote	Approve: 9-1-1
Recommendation Date	8/1/23
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 #	CE2D-46-23 Demand responsive lighting control
CDP ID #	1619
Code	IECC CE
Code Section(s)	C405.2.8
Location	SC rev
Proponent	Glenn Heinmiller glenn@lampartners.com
Proposal Status	SC rev
Subcommittee	CE Elec, Light
Subcommittee Notes	
Recommendation	Reason: Current language is clear enough without the modifications
Vote	Disapprove 11-0-2
Recommendation Date	8/14/23
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 #	CE2D-47-23 Total connected int lighting power edit
CDP ID #	1804
Code	IECC CE
Code Section(s)	C405.3.1
Location	SC rev
Proponent	Greg Johnson gjohnsonconsulting@gmail.com
Proposal Status	SC rev
Subcommittee	CE Elec, Light
Subcommittee Notes	
Recommendation	<ul style="list-style-type: none"> ○ Reason: Provides clarity of efficacy for changeable light sources
Vote	Approve 13-0-1
Recommendation Date	8/14/23
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 #	CE2D-48-23 Lighting power for sleeping unit
CDP ID #	1882
Code	IECC CE
Code Section(s)	C405.3.3
Location	SC rev
Proponent	Michael Jouaneh mjouaneh@lutron.com
Proposal Status	SC rev
Subcommittee	CE Elec, Light
Subcommittee Notes	
Recommendation	<ul style="list-style-type: none"> • Adds “capability of operating” before the efficacy requirements. Addresses color tuning / changing light sources.
Vote	Approve 12-2-1
Recommendation Date	8/14/23
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 #	CE2D-04-23 Emittance comment
CDP ID #	1708
Code	IECC CE
Code Section(s)	C202
Location	SC rev
Proponent	Daniel Carroll daniel.carroll@dos.ny.gov
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Clarifies definition and correlates with proposal passed at IECC-R.
Recommendation	<p>Approve as modified</p> <p>Modification (shown highlighted):</p> <p>EMITTANCE. The ratio of the radiant heat flux emitted by a specimen to that emitted by a blackbody at the same temperature and under the same conditions measured on a scale from 0 to 1, where a value of 1 indicates perfect emission release of thermal radiation.</p>
Vote	Approve as modified 9-0-5 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-04-23 Definition of Emittance
CDP ID #	
Code	IECC CE
Code Section(s)	C202
Location	SC rev
Proponent	Daneil Carroll (daniel.carroll@dos.ny.gov) and Hendrik Shank (hendrikus.shank@dos.ny.gov)
Proposal Status	SC rev
Subcommittee	CE Admin
Subcommittee Notes	Please share with Envelope SC
Recommendation	<p>SC Recommended Definition: EMITTANCE. The ratio of the radiant heat flux emitted by a specimen measured on a scale from 0 to 1, where a value of 1 indicates perfect release of thermal radiation.</p> <p>Reason Statement: This revised definition will align with the IECC-C with the IECC-R defintion.</p>
Vote	Approved as Modified: 10-0-1
Recommendation Date	8/1/23
Next Step	To Subcommittee <input checked="" type="checkbox"/> 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 #	CE2D-07-23 Footnote I removed
CDP ID #	1758
Code	IECC CE
Code Section(s)	C402.1.3 table
Location	SC rev
Proponent	Greg Johnson gjohnsonconsulting@gmail.com
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Clarifies application of insulation to any wall framing configuration.
Recommendation	<p>Approve as modified</p> <p>Modification Do not delete footnote I but replace proposal with modification of text to footnote I (shown highlighted):</p> <p>Where the required R-value in Table C402.1.3 is met by using continuous insulation such that cavity insulation is not required, the wall assembly framing is permitted to be spaced at any spacing the R-value is applicable to any wall framing spacing.</p>
Vote	Approve as modified 14-0-1 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-08-23 Tapered roof insulation edit
CDP ID #	1761
Code	IECC CE
Code Section(s)	C402.2.1.3
Location	SC rev
Proponent	Greg Johnson gjohnsonconsulting@gmail.com
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Removes redundancy; “minimum” is redundant with “not less than.”
Recommendation	Approve as submitted
Vote	Approve as submitted 15-0-1 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-09-23 Air leakage numbering
CDP ID #	1616
Code	IECC CE
Code Section(s)	C402.6.2
Location	SC rev
Proponent	Theresa Weston holtweston88@gmail.com
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Corrects section numbering.
Recommendation	Approve as submitted
Vote	Approve as submitted 13-0-1 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-76-23 ASTM reference
CDP ID #	1618
Code	IECC CE
Code Section(s)	Chapter 6
Location	SC rev
Proponent	Theresa Weston holtweston88@gmail.com
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Corrects reference year on standards.
Recommendation	Approve as submitted
Vote	Approve as submitted 13-0-2 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-78-23 PI NEMA OS 4
CDP ID #	1901
Code	IECC CE
Code Section(s)	Chapter 6
Location	SC rev
Proponent	IECC CE Envelope 0
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Gives the location of NEMA.
Recommendation	Approve as submitted
Vote	Approve as submitted 13-1-1 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-95-23 PI Building thermal envelope
CDP ID #	
Code	IECC CE
Code Section(s)	
Location	SC rev
Proponent	Aaron Phillips aPhillips@asphaltroofing.org
Proposal Status	SC rev
Subcommittee	CE Envelope
Subcommittee Notes	Reason statement: Changes building envelope to building thermal envelope to be consistent within the document.
Recommendation	Approve as submitted
Vote	Approve as submitted 13-0-1 (CNV)
Recommendation Date	8/10/23
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 #	CE2D-24-23 Occupied Standby Controls
CDP ID #	1862
Code	IECC CE
Code Section(s)	C403.7.8
Location	SC Rev
Proponent	Michael Jouaneh
Proposal Status	SC Rev
Subcommittee	CE HVACR & WH
Subcommittee Notes	<ul style="list-style-type: none"> • Proponent explained the reason for the comments (see comment reason statement) • Subcommittee discussion to make sure the mechanical chapter requirements and language were aligned with the lighting chapter
Recommendation	<p>Approve As Modified</p> <p>Reason: To provide clarity and align with the lighting control requirements.</p>
Vote	Motion passed 11-0-1
Recommendation Date	8/10/23
Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee <u> X </u>
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

CE2D-24-23 As Modified

IECC CE: C403.7.8, C403.7.8.1

Proponents:

Michael Jouaneh, representing Lutron Electronics Co., Inc. (mjouaneh@lutron.com)

2024 International Energy Code[CE Project] R3

Revise as follows:

C403.7.8 Occupied standby controls.

~~The following spaces shall be equipped with~~ Θ occupied-standby controls, in accordance with C403.7.8.1, ~~shall be required~~ for each ventilation zone ~~of a system that complies with~~ in the following space:

1.	All spaces served by the zone are required to have occupant sensor lighting controls in accordance with C405.2.1.												
2.	ASHRAE Standard 62.1 Ventilation Rate Procedure allows the ventilation air to be reduced to zero in all spaces served by the zone during occupied standby mode. Spaces meeting these criteria include: <table border="1"><tr><td>2.1 <u>1.</u></td><td>Post-secondary classrooms/lecture/training rooms</td></tr><tr><td>2.2 <u>2.</u></td><td>Conference/meeting/multipurpose rooms</td></tr><tr><td>2.3 <u>3.</u></td><td>Lounges/breakrooms</td></tr><tr><td>2.4 <u>4.</u></td><td>Enclosed offices</td></tr><tr><td>2.5 <u>5.</u></td><td>Open plan office areas</td></tr><tr><td>2.6 <u>6.</u></td><td>Corridors</td></tr></table>	2.1 <u>1.</u>	Post-secondary classrooms/lecture/training rooms	2.2 <u>2.</u>	Conference/meeting/multipurpose rooms	2.3 <u>3.</u>	Lounges/breakrooms	2.4 <u>4.</u>	Enclosed offices	2.5 <u>5.</u>	Open plan office areas	2.6 <u>6.</u>	Corridors
2.1 <u>1.</u>	Post-secondary classrooms/lecture/training rooms												
2.2 <u>2.</u>	Conference/meeting/multipurpose rooms												
2.3 <u>3.</u>	Lounges/breakrooms												
2.4 <u>4.</u>	Enclosed offices												
2.5 <u>5.</u>	Open plan office areas												
2.6 <u>6.</u>	Corridors												

Exception: Zones that are part of a Multiple zone system without *automatic* zone flow control dampers.

C403.7.8.1 Occupied Standby Zone Controls.

Within five (~~520~~) minutes of all spaces in that *zone* entering *occupied-standby mode*, the *zone* control shall operate as follows:

1.	Active heating set point shall be setback by not less than 1°F (0.55°C).
2.	Active cooling set point shall be setup by not less than 1°F(0.55°C).
3.	All airflow supplied to the <i>zone</i> shall be shut off whenever the space temperature is between the active heating and cooling points.
4.	Multiple <i>zone</i> systems shall comply with C403.7.8.1.1



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CE2D-05-23 High-capacity gas-fired water heater definition
CDP ID #	1768
Code	IECC CE
Code Section(s)	C202
Location	SC rev
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	CE HVACR & WH
Subcommittee Notes	<ul style="list-style-type: none"> • Proponent explained his concern that the definition limits products on the market. This comment would remove some of the criteria for instantaneous water heaters and it would also remove gas-fired storage water heaters from the definition. • Subcommittee discussion that the definition isn't taking anything off the market, it is just providing the defined scope of "high capacity water heaters" that need to meet the sections and requirements in the body of the code for this equipment. Changing the definition would remove some equipment from the scope of those sections. The definition doesn't take anything off the market. Suggest that proponent's concern is misplaced. • Subcommittee discussion of thresholds for storage vs. instantaneous and support for current language as-is. There are other sections for high capacity gas water heaters with specific requirements that would be affected if the definition changes. Suggests not changing it, there's a reason it is written as-is. • Definitions are based on US DOE definitions, discussion that we need to stay aligned. • Proponent commented that the definition is still confusing, but some of his concerns are removed after hearing the discussion and explanation in the subcommittee • The subcommittee did not agree with the proponent's deletion of sections of the definition, but offered opportunities for clarification of the definition. • Subcommittee recommended to separate the definition into two sentences for clarity.
Recommendation	<p>Approve As Modified</p> <p>Reason: Provide clarification for definition</p>
Vote	Motion passes 11-0-1 CNV
Recommendation Date	8/10/23

Next Step	To Subcommittee To Advisory Group _____ To Consensus Committee <u> X </u>
Consensus Committee	
Committee Response	
Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	

CE2D-5-23 As Modified

IECC CE: SECTION 202

2024 International Energy Code[CE Project] R3

Revise as follows:

IECC2024D3RECE_CE_Ch02_SecC202_DefHIGH_CAPACITY_GAS_FIRED_WATER_HEATER HIGH-CAPACITY GAS-FIRED

WATER HEATERS. Gas-fired instantaneous water heaters listed to CSA/ANSI Z21.10.3 and having input ratings with a rated input greater than 200,000 Btu/h (58.6 kW) and not less than 4,000 Btu/h per gallon (310 W per litre) of stored water, ~~and Also,~~ gas-fired storage water heaters with a rated input both greater than 105,000 Btu/h (30.8 kW) and less than 4,000 Btu/h per gallon (310 W per litre) of stored water.



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CE2D-27-23 High input service water-heating systems
CDP ID #	1772
Code	IECC CE
Code Section(s)	C404.2.1
Location	SC rev
Proponent	Eric Tate eric.tate@atmosenergy.com
Proposal Status	SC rev
Subcommittee	CE HVACR & WH
Subcommittee Notes	<ul style="list-style-type: none"> • Proponent: stands by the reason statement • Subcommittee discussion of previous work on this topic. Now that there are mandatory renewables as part of the code, there is a potential to “double-count” renewables that apply to exceptions in a few places in the code including this section. Subcommittee previously reviewed two option paths to address this by either removing the renewable energy exception or adding language to prevent double-counting. Previous subcommittee decision was to add language to prevent double-counting. • There are a few other sections of the IECC with similar exception language.
Recommendation	<p>Disapprove</p> <p>Reason: consistency with previous SC action and other sections of the code</p>
Vote	8-1-3
Recommendation Date	8/10/23
Next Step	<p>To Subcommittee _____</p> <p>To Advisory Group _____</p> <p>To Consensus Committee <u> X </u> _____</p>
Consensus Committee	
Committee Response	

Vote	Affirmative _____ Negative _____ Table _____ To Subcommittee _____
Date	



International Energy Conservation Code Code Change Proposal Tracking Sheet

Proposal #	CE2D-28-23 Boilers footnote I edit
CDP ID #	1841
Code	IECC CE
Code Section(s)	C404.4.2(6)
Location	SC rev
Proponent	Richard Lord richard.lord@carrier.com
Proposal Status	SC rev
Subcommittee	CE HVACR & WH
Subcommittee Notes	<ul style="list-style-type: none"> This proposal is proposing to go back to a comment and what was previously in the IECC. But this statement is unnecessary and not true
Recommendation	<p>Disapprove</p> <p>Reason: Proposed footnote is not needed.</p>
Vote	Motion passed 10-0-2
Recommendation Date	8/10/23
Next Step	<p>To Subcommittee</p> <p>To Advisory Group _____</p> <p>To Consensus Committee <input checked="" type="checkbox"/> _____</p>
Consensus Committee	
Committee Response	
Vote	<p>Affirmative _____ Negative _____ Table _____</p> <p>To Subcommittee _____</p>
Date	

