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**International Energy Conservation Code**

**Electric Power, Lighting, and Renewables (PLR) Subcommittee**

**Meeting Agenda**

May 9, 2022

11:00 AM EST to 2:00 PM EST (3 hours)

[Webex Link](https://iccsafe.webex.com/iccsafe/j.php?MTID=mc4d98b5e163b261f37e902808c7bb02e)

**Committee Chair:** Michael Jouaneh (mjouaneh@lutron.com); **Committee Vice Chair:** Jack Bailey (jbailey@oneluxstudio.com); **Note Taker:** Michael Myer (Michael.myer@pnnl.gov)

1. Call to order – Jouaneh **[start 11:02 am]**

2. Roll Call – Bailey (11 SC voting members needed for quorum)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **First Name** | **Last Name** | **Category** | **Company** |
| X | Ali | Alaswadi\* | Gov. Regulator | DC |
| **X** | **Jack** | **Bailey\*** | **User** | **One Lux Studio/Int'l Assoc. of Lighting Designers** |
| X | Bernard | Bauer | User | Integrated Lighting Concepts |
| X | Payam | Bozorgchami | Gov. Regulator | CA Energy Comm |
| X | Joe  | Cain | Manufacturer | Solar Industries Assoc |
| X | Nick | Ferzacca | User | IMEG Corp. |
| X | Anthony  | Floyd\* | Gov. Regulator | City of Scottsdale |
| X | Glenn | Heinmiller | User | Lam Partners/Int'l Assoc. of Lighting Designers |
| X | Bryan | Holland\* | Standards Promulgator  | NEMA |
| X | Harold | Jepsen | Manufacturer | Legrand |
| **X** | **Michael** | **Jouaneh\*** | **Manufacturer** | **Lutron** |
| X | Joyce | Kelly | User | GLHN Arch |
| X | Andrew | Klein\* | Consumer | BOMA |
| X | Mark  | Lien | Standards Promulgator  | IES |
| X | Jon | McHugh | Gov. Regulator | McHugh Energy |
| X | Hope | Medina\* | Gov. Regulator | Cherry Hills Village |
| X | Melissa | Moseley\* | User | HDR/American Society of Interior Designers |
| X | Susan | Musngi\* | Consumer | Camden |
| **X** | **Michael** | **Myer** | **Consultant** | **PNNL** |
| X | Steven | Rosenstock\* | Utility | Edison Electric Institute |
| X | Wayne  | Stoppelmoor | Manufacturer | Schneider Electric |
| X | Mitchell | Tolbert | Gov. Regulator | City of Austin |
| X | Michael | Turns | Utility | MA Program Administrator |

\*denotes member of EC4 consensus committee

3. Introduction of any guests -- Bailey (name/representation type into chat)

4. Review/approve agenda – Jouaneh

* 1st – Steven Rosenstock
* 2nd – Bernie Baurer

5. Meeting conduct -- Jouaneh

* [Antitrust](https://www.iccsafe.org/wp-content/uploads/PPG-12-AntiTrust-Compliance-Guidelines.pdf) Reminder
* Identification of Representation / Conflict of Interest ([CP#7](https://www.iccsafe.org/wp-content/uploads/CP07-04.pdf) Section 5.1.10)
* [Code of Ethics](https://www.iccsafe.org/wp-content/uploads/CodeOfEthics.pdf)

6. Review key actions from last meeting and approve minutes – Jouaneh

7. New business.

* Proposal grouping update – Bailey **[end by 11:10 am]**

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| --- | --- |
| **Number** | **Interior LPDs** |
| CEPI-178, 179, 180, 182, 183, 184(CECPI-7) | Combined Summary Proposal (based on the PLR actions) |
|  | **[end by 11:20 am]** |

CECPI – 7:

* Consensus proposal that merges all of the proposals approved / disproved
* Clarification language suggested
* Proposal: Strike proposal #3
	+ 1st – Jon McHugh
	+ 2nd – Bernie Baurer
	+ Vote: 13 – yes | 2 – no | 3 – abstain
* Parking Area daylight discussion
* Harold – why strike it?
* Glenn – space type does not current exist
* Jon – proposes to remove it here and address in public comment
* Motion: Strike parking daylight zone
	+ 1st -
	+ 2nd – Mitchell
	+ Vote: 5 – yes | 9 – no | 6 – abstain
* Motion: Approve as modified:
	+ 1st – Harold Jepsen
	+ 2nd – Bryan Holland
	+ Vote: 15 – yes | 1 – no | 1 – abstain
	+ Reason Statement: This proposal consolidates actions by the SC of the following CEPI-178, 179, 180, 182, 183, and 184 into one consensus proposal by improving indoor lighting efficiency for buildings.

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| --- | --- |
| **Number** | **Exterior Lighting Power (5)** |
| CEPI-173-21 | Parking Lot Controls |
| CEPI-174-21 | Parking Lot Controls |
| CEPI-172-21 | Building or Business Closing |
| CEPI-171-21 | Building or Business Closing |
| CEPI-189-21 | LPD Table Revisions |
|  | **[end by 12:10 pm]** |

CEPI-173-21:

* Discussed in last meeting
* Proponent Mike Kennedy: Changes the wattage value from 78 W à 40 W. Cost effectiveness established via the Title 24 process
* Steve Rosenstock: Share a [link](https://www.ledsmagazine.com/connected-ssl-controls/article/14176534/ngls-addresses-the-challenges-of-connected-lighting-systems-magazine) and a [DOE study](https://www.energy.gov/eere/ssl/ngls-outdoor-performance-findings). “The passive infrared (PIR) sensors used in the outdoor installations consistently failed to raise dimmed light levels in the presence of moving vehicles and pedestrians."
* Marty Salzberg mentioned that ASHRAE 90.1 left the value at 78 W pending another white paper.
* Jon McHugh: 40 W threshold is used in California. Advocates to adopt this proposal.
* Steve Rosenstock (EEI): The issue is with the PIR technology, not the mounting height. Steve has no concerns with lowering the wattage, but rather the technology.
* Michael Myer (PNNL): Raised concerns about the original testing height of the technology as well as the process of the acceptance testing
* Michael Scalzo (acceptance test technician for California): Been on 100s of projects and test 1000s of poles. Says sees more poles under 24’. See more PIR. Functionally tested by entering area of the PIR sensor. Never tested poles over 24’. Says very successful technology in California.
* Acceptance testing discussion
* Jon McHugh: Stated that California say 9 GW of savings from this proposed change. Alex Baker of the IES raised concerns in a letter to California. Jon reviewed Alex’s concerns.
* Mary Salzberg (IALD) raised questions related to how the California cost effectiveness methodology was used.
* Motion as submitted:
	+ Bryan Holland – 1st
	+ Payem Bozorgchami – 2nd
	+ Vote: 14 – yes | 2 – no | 3 – abstain
	+ Reason Statement: Proposal aligns the code with efficacy improvements with LED lighting and is cost effective with simple payback under 5 years

CEPI-174-21

* Steve Rosenstock (EEI): Adds a failsafe control related to occupancy sensors. References Virginia Tech Institute studies with a mounting height of 30’. To prevent bad results, there should be a requirement to allow for manual increase during inclement weather.
* Jack Bailey: What is the definition / mechanism for inclement weather?
* Steve Rosenstock (EEI): There are controls out there
* Glenn Heinmiller (IALD): Do we have data that shows PIR sensors don’t work in rain snow? Light output is reduced
* IBC does not require parking lot lighting
* Nick: Some transit authorities require egress lighting all the way to parking lots
* Motion to disapprove:
	+ Payem – 1st
	+ Harold Jepsen – 2nd
	+ Vote: 16 – yes | 3 – no | 1 – abstain
	+ Reason statement: Creates unnecessary cost and complexity.

CEPI-172-21:

* Glenn Heinmiller (IALD): Modifies setback text of “building or business”
* Steve Rosenstock (EEI): Mixed-use buildings need the broad term
* Michael Rosenberg (PNNL): Business closing / opening is better than building open / closing
* Joe Cain: Wants to keep the term “or business”
* Motion: Strike “or business”
	+ Vote: 2 – yes | 13 – no | 1 – abstain
* Joe Cain – can the building being open be clarified?
* Hope Medina: You are trying to solve a problem that doesn’t exist.
* Steve Rosenstock Concurs with Hope
* Hope: As an end user, sometimes people get too wrapped up on the terms. Don’t clutter it up with more complex terms. Suggests leaving as shown on the screen
* Motion: Approve as submitted:
	+ 1st – Steven Rosenstock
	+ 2nd – Hope Medina
	+ Vote: 15 yes | 2 no | 2 abstain
	+ Reason Statement: Adds clarification to the requirement that it applies to all occupancies (businesses and non-business [e.g., school or church, etc.])

CEPI-171

* Glenn Heinmiller: Similar, but different to 172. Applies to façade and landscape lighting and specifies when that lighting should be turned off
* Steve Rosenstock: Move to add Group A occupancies
* Modified proposal
	+ Vote: 10 yes | 4 no | 4 abstain
* Motion: Disapproval
	+ 1st – Harold Jepsen
	+ 2nd – Bryan Holland
	+ Vote: 9 yes | 8 no | 1 yes
	+ Reason: Does not account for lighting operations for businesses/ organizations that may operate after 12:00 am.

Steve: Questions about modifications related to exit signs and values

Jon: Does this proposal align with the recent version of RP-8

Motion: Approve the most recent modification as shown on screen

* 1st – Steve Rosenstock
* 2nd – Mark Lien
* Vote: 17 yes | 0 no | 1 abstain
* Reason: Improves exterior lighting efficiency based on LED efficiency improvements and aligns with ASHRAE/IES Standard 90.1.

CEPI-186

* Proponent (DOE): Proposal is an alternative compliance path as stringent as the space-by-space approach. Provides more flexibility. Same inputs as Com-Check. IECC has envelope and mechanical TSPR.
* Jon – raised concerns with the lighting control trade off
* Glenn – IALD raised concerns about cost
* Harold – raised concern about the software as well as language about predictive energy savings
* Motion to disapprove
	+ 1st – Jon McHugh
	+ 2nd – Jack Bailey
	+ Vote: 16 yes | 1 no | 2 abstain
	+ Reason statement: Proposal would reduce enforceability of the IECC and increases complexity with no additional energy savings
* For the record: No discussion after the motion filed. But pre-discussion occurred before the motion was filed. Chair went directly to a vote.
* Jack: PLR SC tries to have pre-discussion open to all.

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| **Number** | **Alternate Compliance Path (1)** |
| CEPI-186-21 | DOE Alternate Compliance Path |
|  | **[end by 1:00 pm]** |
| **BREAK (Optional)** | **[end by 1:05 pm]** |
| **Number** | **Standalone Proposals (2)** |
| CEPI-192-21 | Transformer efficiencies. |
| CEPI-007/233-21 | Consensus Energy Storage |
|  | **[end by 1:35 pm]** |
| **Number** | **Alterations (2)** |
| CEPI-230-21 | Alterations language and exceptions |
| CEPI-231-21 | Alterations language and exceptions |
|  | **[end by 1:50 pm]** |
| **Number** | **EV Charging** |
| CEPI-146 | EV Charing (proponents requested disapproval) |
|  | **[end by 1:55 pm]** |

8. Other business – Jouaneh **[end by 1:59 pm]**

* [Teams site](https://teams.microsoft.com/l/team/19%3AKMleRbAtrEAu1N0HzdWt_R8FCMc_WjlV58mrFRjV8fA1%40thread.tacv2/conversations?groupId=edefc94e-e6ed-4695-a40b-c7af90c71fd8&tenantId=173eec12-7e3d-46d0-b83f-5a74246b3037)
* Withdrawals: CEPI 005, 026, 143, 144, 151, 155, 157, 158, 159, 160, 165, 170, 190, 191, 201, 258
* Proposals for PNNL cost effective analysis: CEPI 162/164, 176
* Extra meeting dates (May 20 and 27)
* Potential summer items

9. Future meeting: **11:00 am – 2:00 pm ET on Friday May 20, 2022 [extra meeting]**

10. Adjourn **[2:00 pm]**

FOR FURTHER INFORMATION BE SURE TO VISIT THE ICC WEBSITE:

[ICC Energy webpage](https://www.iccsafe.org/products-and-services/codes-standards/energy/)

[Code Change Monograph](https://www.iccsafe.org/wp-content/uploads/2021-Public-Input-Complete-Monograph.pdf)

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Subcommittee Chair

