



STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

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### Commercial Energy Code Technical Advisory Group Meeting Review Notes

**LOCATION:** The meeting was held via Zoom and teleconference

**MEETING DATE:** October 25, 2024

**Members in Attendance:** Kjell Anderson, TAG Chair; Larry Andrews; Erik Bedell; \*Todd Blevins; Rick Blumenthal; \*Andi Burnham; \*Ian Casey; \*Kevin Charap; \*Brett Conway; Alessandra de la Torre; \*Shailesh Desai; Kevin Duell; Duane Jonlin; Greg Johnson; Nick Massie; Nathan Miller; Margaret Montgomery; \*Liz Reichart; Sloan Ritchie; Lisa Rosenow; \*Deepa Sivarajan; \*Premkumar Siddharth; Poppy Storm; Irina Susorova; Shaun Vig

**Members Absent:** \*Craig Holt, Kim Barker, \*Marty Brennan, Luke Howard, \*Erik Olnon, Irina Rasputnis, \*Kevin Roberts, Marcus Virta

**Staff In Attendance:** Dustin Curb, Krista Braaksma, Annette Haworth, Rozanna Ghanie

**Visitors Present:** Ben Omura, Jason Armstrong, Laura Bloyd, John Feiler, Patrick Hanks, Stacy Hartung, Eric Lacey, Kevin Rose, Michael Rosenberg, Brad Rowe, Elizabeth Torske, Eric Urban

\* Indicates an alternate member

Agenda Items	TAG Actions
1. <b>Welcome and Introductions</b>	The meeting was called to order at 9:00 a.m. Roll was called, and a quorum was present.
2. <b>Review and Approve Agenda</b>	Motion made to approve agenda by Todd Blevins and seconded by Lisa Rosenow. Motion passed by voice vote.
3. <b>Continued Review of Integrated Draft</b>  Workgroup Reports ▪ C401.3 Formulas	<p style="text-align: center;"><b>C401.3 Formulas</b></p> <p>Greg Johnson reported that the workgroup on the C401.3 formulas has not yet met. He anticipates a meeting the next week. The group will most likely be submitting their results as a code change proposal.</p>

This material in alternative formats including braille, large print, and audio recording is available on request by emailing the SBCC at [sbcc@des.wa.gov](mailto:sbcc@des.wa.gov).

- WSEC/ASHRAE Appendix A Workgroup

### **Appendix A**

Nathan Miller reported they will also be submitting their report as a code change. They compared the Washington State Energy Code Appendix A with ASHRAE 90.1 Appendix A. After debating redundancy versus alignment with national standards, A short comparison is posted in the meeting documents. Larry Andrews proposed including both tables, but no one seconded this motion, so it died. Nathan then motioned to maintain the current table while allowing for future code proposals.

- Motion #1 Made By: Larry Andrews (to include both tables).
- Seconded By: None.
- Outcome: Died for lack of a second.
- Motion #2 Made By: Nathan Miller (to maintain Appendix A).
- Seconded By: Erik Bedell.
- Outcome: Passed by voice vote with one dissent from Larry Andrews.

- Humidification Workgroup

### **Humidification Language**

Erik Bedell reported workgroup proposed retaining the existing language while working on a future code modification to allow steam humidification to address safety concerns.

- Motion Made By: Erik Bedell.
- Seconded By: Gregory Johnson.
- Outcome: Passed by voice vote unanimously.

Integrated Draft Review

### **Insulation Exception in Section C404.6**

The group debated the necessity of Exception 3, which exempts insulation for hot water piping not heated by energy sources. Concerns were raised about heat retention, burn protection, and energy efficiency. Duane Jonlin motioned to strike Exception 3 entirely.

- Motion Made By: Duane Jonlin.
- Seconded By: Nathan Miller.
- Outcome: Passed by voice vote unanimously.

### **Clarification on Piping Insulation in Section C404.6.1**

The provision required insulating only the "first 8 feet" of outlet and branch piping, which was seen as inconsistent. Margaret Montgomery suggested removing the "first 8 feet" limitation. Duane Jonlin moved to retain the IECC language but amended his motion to include Margaret's suggestion.

- Motion Made By: Duane Jonlin.
- Seconded By: Kevin Duell.

- Outcome: Passed by voice vote unanimously.

### **C405.2 Lighting controls**

Gregory Johnson motioned to accept IECC Exception #1 while rejecting other exceptions, proposing future code changes to address issues discussed. The group debated the motion before voting.

- Motion Made By: Gregory Johnson.
- Seconded By: Margaret Montgomery.
- Outcome: Passed by voice vote.

### **C405.2.2 Time switch controls**

The TAG discussed exceptions 3 and 4 and if they should be retained or if they are redundant and not necessary. Greg Johnson moved to retain exception 3 and 4 code and any issues could be resolved later through a code change.

- Motion Made By: Greg Jonson.
- Seconded By: Larry Andrews.
- Outcome: Roll vote, 8 yes and 7 no, with one abstention.

Kjell Anderson exercised his prerogative as chair to vote since it would change the outcome of the vote. With a tied vote, the motion does not pass.

Duane Jonlin and Lisa Rosenow moved to strike exceptions 3, 4 and 5 as shown initially in the integrated draft. A motion was then made to amend Duane's motion to retain exception 3.

- Main Motion Made By: Duane Jonlin.
- Seconded By: Lisa Rosenow.
- Amendment to Motion Made By: Greg Johnson.
- Second on Motion to Amendment: Larry Andrews.
- Outcome on Motion to Amend: Motion failed 5 to 11:
- Outcome of Main Motion: Motion carried 11 to 5.

### **C405.2.5 Figures**

Lisa Rosenow moved to replace the WSEC fenestration diagrams with the ones from the 2024 IECC, where there are IECC diagrams. Erik Bedell seconded the motion. Lisa felt the IECC versions were more accurate and descriptive. The motion carried unanimously by voice vote.

### **C405.2.4.1 Dimming**

Duane Jonlin felt the WSEC language for dimming was more thorough and should be retained rather than adopting the new IECC dimming language. After further discussion and a failed

motion, the TAG voted to use the new IECC language but incorporate the WSEC language requiring uniform illumination.

- Motion Made By: Duane Jonlin.
- Seconded by: Lisa Rosenow.
- Outcome: Passed unanimously by voice vote.

#### **C405.4.2 Tables**

The TAG discussed the LPA values and how they wanted to move forward. Duane Jonlin suggested just keeping the ASHRAE 90.1 values for now and looking for code changes on changing the stringency.

- Motion Made By: Greg Johnson.
- Seconded By: Duane Jonlin
- Outcome: Passed by voice vote.

#### **C405.9.2 Computer Rooms**

The TAG discussed the exception and whether the regulation of the installation of UPS in computer rooms fell under the jurisdiction of the building code. Greg Johnson moved to modify the exception to include all UPS. Ultimately, the language remained as written in the 2024 IECC

- Motion Made By: Greg Johnson.
- Seconded By: Larry Andrews.
- Outcome: The motion failed, 4 to 8 with 4 abstentions.

#### **C409.4.4, C409.4.5 and C409.4.6 Non-Electrical Metering**

The TAG discussed the new IECC metering requirements for other than electrical service and how technically feasible it was and how it would fit with the existing requirements. Duane Jonlin moved to strike all the new language.

- Motion Made By: Duane Jonlin.
- Seconded By: Larry Andrews.
- Outcome: Passed by voice vote.

#### **C411**

Greg Johnson advocated including a requirement for battery storage with the requirements for on-site solar. A group was formed to work on a code change proposal with Greg, Nathan Miller, and Markus Virta. Kjell recommended they also look at the demand response requirements.

On reviewing Section C411.1, Kevin Charap felt the main section in the IECC requirements was more stringent, but the WSEC language worked better for multifloored buildings. He moved to

accept the IECC language, not including the exceptions. Duane Jonlin made an amending motion to strike the “not to exceed the combined gross conditioned floor area of the three largest floors” portion of the main section. Poppy Storm seconded the motion to amend.

- Main Motion Made By: Kevin Charap.
- Seconded By: Kevin Duell.
- Amendatory Motion Made By: Duane Jonlin
- Amendatory Motion Seconded by Poppy Storm
- Amendatory Motion Outcome: Passed by voice vote with one opposing.
- Main Motion Outcome: Passed by voice vote.

For the exceptions to C411.1, the TAG felt the WSEC language in exception 1 was preferable to the IECC version. Kevin Charap moved to retain the WSEC exception 1 language but adopt the IECC language for exceptions 2-4.

- Motion Made By: Kevin Charap.
- Seconded By: Greg Johnson.
- Outcome: Passed by voice vote.

Brett Conway felt that the word “addition” from the WSEC language should be retained and included in the exceptions as well. It was felt the wording should be “each new building or addition.”

- Motion Made By: Duane Jonlin.
- Seconded By: Greg Johnson.
- Outcome: Passed by voice vote.

There was some discussion by the TAG on having a path to use off-site energy, but it was determined that would need to be done through a code change. A motion was made but ultimately withdrawn lacking explicit language. Kevin Charap, Duane Jonlin, Mike Kennedy, and Andi Burnham volunteered to work on the code change.

#### **Extend meeting to 2:30 pm**

Kjell Anderson asked for a motion to extend the meeting to try to get through the rest of the document.

- Motion Made By: Kevin Duell.
- Seconded By: Lisa Rosenow.
- Outcome: Passed by voice vote.

### **C503.3.1 Alterations**

The TAG discussed whether the IECC changes to the exceptions to C503.1 were less stringent and should be modified. Lisa Rosenow pointed out there were some similar issues with the new language in C503.3.1. Exception 2 doesn't provide any performance or design criteria for deviation from the required insulation level as was previously found in C503.1. She recommended striking "that minimizes deviation from the insulation requirement" in Exception 2 to C503.3.1.

- Motion Made By: Lisa Rosenow.
- Seconded By: Duane Jonlin.
- Outcome: Passed by voice vote.

### **C503.4/IECC C503.3 Mechanical Systems**

The TAG briefly looked at the new IECC requirements for economizers and general heating and cooling requirements. It was felt the existing WSEC language was better Duane Jonlin moved to not accept the IECC changes to this section.

- Motion Made By: Duane Jonlin.
- Seconded By: Kevin Duell.
- Outcome: Passed by voice vote.

### **C503.5 Service Water Heating**

The TAG looked at the two new exemptions from IECC for service water heating. The consensus was that the new exception 2, exempting them from commissioning, was less stringent than the WSEC. Duane Jonlin moved to not adopt the commissioning exception.

- Motion Made By: Duane Jonlin
- Seconded By: Kevin Duell.
- Outcome: Passed by voice vote.

### **C503.7 Lighting and Controls**

The TAG discussed the new IECC requirements for lighting and controls in 503.7.1 and C503.7.2 and debated the WSEC threshold of 20% of fixtures versus the IECC's 400-watt threshold. Duane Jonlin moved to retain the WSEC language but add ", or increase by more than 400 watts, whichever is less."

- Motion Made By: Duane Jonlin.
- Seconded By: Greg Johnson.
- Outcome: Passed by voice vote.

<p>Accept All Decisions Made Through Section C503.8</p> <p>C505 Code Language.</p>	<p style="text-align: center;"><b>Motion To Extend Meeting</b></p> <p>Duane Jonlin motioned to extend the meeting to 3 PM to address additional agenda items. Several members noted they would leave early, raising quorum concerns.</p> <ul style="list-style-type: none"> <li>▪ Motion Made By: Duane Jonlin.</li> <li>▪ Seconded By: Margaret Montgomery.</li> <li>▪ Outcome: Passed by voice vote, with some abstentions.</li> </ul> <p>Duane Jonlin moved to accept all decisions made up to Section C503.9 to ensure progress despite potential quorum loss later. This included all motions and changes previously discussed.</p> <ul style="list-style-type: none"> <li>▪ Motion Made By: Duane Jonlin.</li> <li>▪ Seconded By: Sloan Richie.</li> <li>▪ Outcome: Passed by voice vote.</li> </ul> <p style="text-align: center;"><b>C505 Changes of Space Conditioning, Occupancy or Use</b></p> <p>Lisa Rosenow made a motion to blend the language from WSEC 505.3 with the new IECC language as follows. Adopt the energy use intensities section from the IECC and move it to C505.4.3; Adopt the building mechanical systems section with the associated table and move it to C505.4.3.1.2; Adopt the service water heating section with the associated table and move it to C505.4.3.2.1; and finally adopt the lighting section and associated table and move it to C505.4.3.3.1</p> <ul style="list-style-type: none"> <li>▪ Motion Made By: Lisa Rosenow</li> <li>▪ Seconded By: Duane Jonlin</li> <li>▪ Outcome: Passed by voice vote.</li> </ul>
<p><b>4. Adjourn</b></p>	<p>Meeting adjourned at 2:38.</p>