



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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STATE BUILDING CODE COUNCIL MEETING MINUTES

LOCATION: DES Building – First Floor Presentation Room
1500 Jefferson St. SE
Olympia, Washington

MEETING DATE: Friday, November 8, 2019

Members in Attendance: Doug Orth, Chair; Diane Glenn; Traci Harvey; Kjell Anderson; Andrew Klein; Steve Simpson; Eric Vander Mey; Al French, Todd Beyreuther, Micah Chappell, Larry Hoff, Phil Lemley, Robert Graper

Members Absent: Barry Long, Leanne Guier, Kevin Shutty

Staff In Attendance: Richard Brown, Managing Director; Brian Fowler, Assistant Attorney General; Krista Braaksma; Ray Shipman; Carrie Toebbe

Visitors Present: Suzanne Mayr, Corey Wilker, Todd Short, Hank Teran, Larry Andrews, Michael Lubliner, Connor Reiten, Scott Ongley, John Waterstaat, Tim Reed, Troy Olsen, Art Getchman, Steven Tate, Patrick Bradnock, Edward Hosack, Bill Nirk, Carolyn Logue, Rick Lucas, Bill Kraus, Ryann Blake, Daniel Hammer, Jim Kambeitz, Gary Heikkinen, David M., Jim Tidwell, Grant Lilly, Kim Barker, Matt Mamiya, Jeff Shapiro, Kelly Thomas, David Baylon, Shilpa Surana, Jenifer Gilliland, Al Audette, Dave Kokot, John Crouch, Corina Forson

Agenda Items	Council Actions/Discussion
1. Welcome and Introductions	Meeting called to order at 10:00 a.m. by Chair, Doug Orth. Everyone was welcomed and introductions were made. Richard Brown, Managing Director for the State Building Code was recognized by staff for twenty years of state service.
2. Review & Approve Agenda	The agenda was approved as written.
3. Public Comment on Items not on the Agenda	Corina Forson with the Department of Natural Resources asked the Council to add an opportunity to discuss the tsunami chapter of the building code to the January 10, 2020 Council agenda.
4. Review & Approve Minutes	The meeting minutes from October 11, 2019 were approved as written.

<p>5. MVE Committee Report</p>	<p>Eric Vander Mey, Chair of the MVE Committee, reported the Committee looked at developing final building code language for the energy code.</p> <p>Language was reviewed and developed using public comment on gas fireplace efficiency and pilot lights. The discussion of the fireplace efficiency percentage was deferred to the Council. Water heater insulation pad language was also discussed.</p> <p>Richard (staff) gave an update on the IRC mechanical section noting that there is an omission within the CR-102 currently before the Council and this omission will require an additional CR102 process.</p> <p>WSEC goals were discussed per House Bill 1257. More discussion will be happening in regards to this over the upcoming months. An in depth study is needed to complete the report for the legislature. The code is being adopted a year late this cycle but will be on a three year cycle next time.</p> <p>Micah noted the referenced labeling and testing requirements in CSA P.4.1 do not apply to decorative fireplaces. He asked if there is a point to including this reference for decorative fireplaces. Carolyn Logue from the audience was asked to respond. She stated efficiency is not required on the label per CSA P.4.1 but is required by the Canadian standard. This would make the requirement equivalent to the Canadian standard.</p> <p>The Committee also reviewed the revised WSEC Goals document which addresses language from legislation passed earlier this year. It was also noted the Council will be discussing the Energy Code report to the Legislature over the coming months.</p>
<p>6.A. IBC [WSR 19-16-158 August 7, 2019]</p>	<p>Eric Vander Mey emailed an editorial change in response to public testimony. This removes references to Section 909.10.3 from Section 909.6.3 of both the IBC and IFC amendments.</p> <p>Doug asked for a synopsis of inclusion vs. non-inclusion of amendment.</p> <p>A motion was made to move forward with the two editorial corrections to Section 909.6.3 and strike through the two references to Section 909.10.3 (see EVM editorial changes).</p> <p>A revised motion was made to move the pressurization parts of the 2018 IBC to a CR103 with the change noted above. Motion carried.</p> <p>A motion was made to move the entire IBC CR102 with the changes just noted forward into the CR103. Motion carried.</p>
<p>6.B. IFC [WSR 19-16-157 August 7, 2019]</p>	<p>Two comments on food trucks were received but did not address changes noted in the CR102 filing, so should not have been presented.</p> <p>Eric's editorial changes for the pressurization noted for the IBC apply to this section also.</p> <p>A motion was made to move forward the pressurization changes to amend Section 909.6.3 to strike references to Section 909.10.3 to be</p>

	<p>consistent with the IBC and move that forward into a CR103. Motion carried.</p> <p>A motion was made to move the remainder of the IFC from CR102 to CR103. Motion carried.</p>
<p>6.C. WSEC-R [SR 19-16-157 August 7, 2019]</p>	<p>The Council made seven changes to the proposed residential energy code filed as the CR102:</p> <ol style="list-style-type: none"> 1. The changes to R406 detailed in <u>Chuck Murray's</u> testimony. 2. Modified the number of credits needed for small dwelling units (per Section R406.3) to 3.0. 3. Removed the new electric readiness Section R404.2. 4. Modified the carbon emissions factor for electricity in Table R405.3 to 0.80 5. Set the gas fireplace efficiency (FE) to 50% and exempted decorative gas appliances in R402.4.2.1. 6. Added an exception to the continuous burning pilot light prohibition in Section R403.1.3 for fireplaces with on-demand, intermittent or interrupted ignition; added definitions for on-demand, intermittent and interrupted pilots. 7. Modified the required insulation for water heaters in Section R403.5.5 to require a compressive strength of 40 psi, with an allowance for engineering. <p>The proposed code with those changes will become the 2018 WSEC-Residential.</p> <p>The following motions were made during discussion:</p> <p>A motion was made to adopt the modifications to the additional credit options 3.2, 5.4, 5.5 and 5.6 in Table R406.3 to add an additional half credit; and also add a half credit to System Type 4 in Table R406.2. Motion carried.</p> <p>A motion was made to maintain the language in the different options of R406.3, but to reduce the number of credits needed for small homes to 2.5. Medium homes will remain at 6 credits and large at 7 credits. A second was made.</p> <p>Discussion ensued in the goal of the energy credits for small homes and long term.</p> <p>A motion was made to amend the previous motion with 4.5 credits for small dwellings. A second was made.</p> <p>Further discussion ensued in the difference of opinion of why the council should stay with and/or move to far away from the 4.5 threshold.</p> <p>A roll call vote was taken with 8 no and 3 yes. Motion failed.</p> <p>A motion was made to change the smaller home threshold to 3.5 and seconded. A roll call vote revealed 5 no and 6 yes but the motion failed to lack of majority.</p> <p>A motion was made to phase the implementation starting at 3 and going</p>

to 4 within a year. It was seconded. A roll call vote revealed 8 no and 3 yes. Motion failed.

A motion was made and seconded to change the smaller home cap from 1500 to 1350 square feet to match the analysis, and require 3 credits for small dwellings. Motion carried, 8 to 3.

A motion was made to accept and move forward the CR102 language for Section R406 as modified. Motion carried, 8 to 3.

Doug expressed concerns changing the smaller home square footage to 1350.

Diane moved to reconsider the small dwelling size. A second was made. Motion carried.

A motion was made to keep the square footage at 1500 square feet but modify the credits for small dwelling units to 3.5. A roll call vote was taken 6 no and 4 yes motion failed.

A motion was made to keep the square footage at 1500 for smaller homes and require 3.0 credits. Motion carried.

Section R404.2, Electric Readiness, was then discussed. Micah spoke in regards to the building officials voting against the requirement and technical requirements.

A motion was made to strike Section R404.2. Motion carried.

A short break was taken.

R405, R406.2 Carbon Emissions were then discussed.

A motion was made to approve Table R406.2 and move it into the CR103. Roll call vote was taken 4 no and 9 yes with the motion carrying with the chair voting yes.

A motion was made to move Section R405.3 forward to the CR103. A roll call vote revealed 5 no and 6 yes votes. Motion failed.

A motion was made to change carbon emissions factor for electricity to 0.75 and change the percentages to reflect that metric. A roll call revealed 4 no and 7 yes. The chair's vote was no. Motion failed.

A motion was made to modify the carbon emissions factor for electricity in Table R405.3 to 0.8. Roll call vote was 8 yes and 3 no. Motion carried.

A motion was made to move R405.3 to the CR103 with council corrections. One opposing vote was made. Motion carried.

Fireplace Efficiency was then discussed.

A motion was made to approve R402.4.2.1 as written but adding a comma behind ratings, and also to set the gas fireplace efficiency to 50%. One opposed. Motion carried.

Section R403.1.3, Continuously Burning Pilot lights, was then discussed.

A motion was made to add an exception to the continuous burning pilot

	<p>light prohibition in Section R403.1.3 for fireplaces with on-demand, intermittent or interrupted ignition; added definitions for on-demand, intermittent and interrupted pilots. Motion Carried.</p> <p>A motion was made to extend the meeting until 3:00 p.m. Motion carried.</p> <p>A Motion was made to move R403.5.5, electric water heater insulation, as modified by the MVE committee to the CR103. Motion carried. One opposed.</p> <p>A motion was made and seconded to move the Residential Energy Code CR102 language as modified to a CR103. Motion carried with one opposing vote.</p>
6.D. IRC	<p>How to address Tiny Houses with axels and wheels was discussed. A motion was made to stay with the language currently in the CR-102 rather than include pointers within the body of the code on how to deal with axels and wheels. Motion carried.</p> <p>How to address Tiny Houses energy efficiency was discussed. A motion was made to use option 3 which struck AQ104.2 from the CR-102. Motion carried.</p> <p>Habitable attics were then discussed. A motion was made to use option #4 which struck the language in the CR-102 calling for the habitable attic to be considered a floor and went with it not being considered a floor if it is properly sprinklered and no greater than ½ the floor area of the floor below. Motion carried.</p> <p>Fire blocking was then discussed. This addressed the intent for fire blocking. A motion was made to support the change as written. Motion carried.</p> <p>No action was taken on townhouses. The changes were editorial, no motion is required.</p> <p>Structural Independence was then discussed. A motion was made to accept option #2 which struck amendment language to R302.2.6. One opposed. Motion carried.</p> <p>Duplex Construction was then discussed. This addressed clarifying floor/ceiling versus floor. A motion was made to approve the change as written. Motion carried.</p> <p>Townhouse fire sprinklers was discussed. A motion was made to approve option 1, retain the language in the CR-102 with modifications to singular unit. Motion carried.</p> <p>No action was taken on ADU smoke alarms. The proposed changes were editorial.</p> <p>Deck Tables were discussed. A motion was made to only include the load tables and species used in Washington State. Motion carried.</p> <p>Used lumber was discussed. A motion was made to accept the amended language changing “approved” to “Grade mark”. Motion carried.</p>

	<p>Whole house ventilation was discussed. A motion was made to incorporate the editorial changes into the IRC residential ventilation section in the CR103. Motion carried.</p> <p>Chapter 35, reference standards. A motion was made to accept what is in the CR102 (update the reference standards). A roll call vote was made. 8 yes and one no, one abstention. Motion carried.</p> <p>An amendment was made to remove the UL standard from the CR102 and move forward with the other standards. A roll call vote was taken. 7 no, 2 yes, one abstention. Amended motion failed.</p> <p>A motion was made for the rest of the IRC CR-102 to move into the CR103 as amended. One abstention. Motion carried.</p>
6.E. IMC	A motion was made to approve the IMC to the CR103. One abstention. Motion carried.
6.F. UPC	<p>Section 807.3, Air Gap, was discussed.</p> <p>A motion was made to accept option #2, to not adopt the language in the CR-102 to Section 807.3. Motion carried.</p> <p>A motion was made to move the UPC to the CR103 as amended. Motion carried.</p>
7. Staff Report	The staff report will be emailed to the Council and also posted online.
11. Other Business	A brief overview of how the CR103 will be edited and filed was given by staff.
12. Adjourn	The meeting was adjourned at 3:00 p.m.