



STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

Department of Enterprise Services

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### Energy Code Technical Advisory Group Meeting Review Notes for March 4, 2021

Agenda Items	TAG Actions
1. Welcome and Introductions	Meeting called to order at 8:31 a.m. Kjell Anderson welcomed everyone and thanked them for volunteering to work on the Technical Advisory Group. Roll was called and each member gave a short bio.
<p><b>TAG Members Present:</b> Kjell Anderson, Chair; Michael Baranick*; Erik Bedell; CJ Brockway; Martin Connor; Mike Fowler; Patrick Hayes; Gary Heikkinen; Scott Henderson; Chris Holliday; Luke Howard; Duane Jonlin; Elizabeth Joyce*; Jon Lange*; Mike McGivern; Allan Montpellier; Henry Odum*, David Reddy; Erik Olon; Lisa Rosenow; Poppy Storm*; Gavin Tenold; Shaun Vig; Amy Wheelless;</p> <p><b>Visitors Present:</b> Corey Wilker, Caroline Traube, Mike Kennedy, Dave Nehren, Louis Starr, Damen Jeg, Shilpa Surana, Lee Creiglow, Tena Risley, Kevin Duell, Jeff Mang, Nick O'Neil</p> <p><b>TAG Members Absent:</b> Wade Craig*, Bill Kraus*, Andrew Pultorak*</p> <p><b>Staff:</b> Stoyan Bumbalov, Krista Braaksma</p> <p style="text-align: right;">* indicates an alternate member</p>	
2. Review and Approve <a href="#">Agenda</a>	Agenda approved as written.
3. Timeline and Outline of the Adoption Process and Expectations	<p>Kjell Anderson provided a brief overview of the code adoption and review process. He noted the TAG would need to work towards the statutory goal for the 2031 energy efficiency goal. The draft document being reviewed today integrates all of the 2021 IECC changes into the 2018 WSEC.</p> <p>Krista Braaksma noted that the process was about two months behind. The TAG is scheduled to complete the review of the integrated draft and report out to the MVE Committee on March 18.</p>
5. Review Integrated Draft – 2021 Washington State Energy Code, Commercial	
2021 WSEC ID Draft	Krista Braaksma walked the TAG through the integrated draft document and associated comments. She noted that there was a request that an effective date be included in the adoption of the 2021 code and asked the TAG for feedback as to whether it should be included in the Scope and General Requirements section or in a preface section similar to the other model code adoptions. There was general consensus that the effective date should be included in Section C101.
Chapter 1	Under Section C103.2, it was felt the addition of energy compliance path should be more specific and the TAG recommended adding a reference to C401. The TAG also concurred that the existing WSEC language in item 13 should be retained and the 2021 IECC change to this item not be adopted.
Chapter 2	<p>Mike Kennedy asked to delay action on the Data Center Systems definition to the next meeting so he research the development of the IECC language.</p> <p>The TAG felt the existing definition for Demand Recirculation Water System was preferable to the 2021 IECC language.</p>

	<p>Mike Kennedy pointed out a typo in the definition of Vertical Fenestration. It should read "...50 percent or more glazed area..." and not "...no more than 50 percent glazed area..."</p> <p>The TAG opted to delete the definition for Vegetative Roof, since the associated code requirements are not adopted.</p>
<i>Chapter 3</i>	<p>The TAG opted to not change the climate zone for Clallam, Island, Kitsap and San Juan counties from 4C to 5C. Mike Fowler pointed out the governing statute clearly states that there shall only be two climate zones in Washington. There was some debate, since the requirements for zone 5C has some more stringent requirements than those for zone 4C.</p>
<i>Chapter 4 C401</i>	<p>In Section C401.2, the new sentence allowing dwelling and sleeping units to comply with the residential provisions is referencing the ERI path, which is not adopted. It was felt this sentence should be struck.</p> <p>The previous Section C401.2.1 was changed to an exception in the 2021 IECC. It was felt this would be clearer if the section number and title were retained while keeping the other language changes.</p>
<i>C402</i>	<p>There was considerable discussion regarding Section C402.1.1.3 and the associated table as to whether the correct term is fenestration, as used for the IECC or non-opaque elements, as used in the WSEC, and if orientation should be used in the determination of thermal requirements. The TAG tentatively determined that the orientation U-factors be retained in the table while accepting the IECC language. Before the next meeting, Lisa Rosenow will research the issue.</p> <p>In Section C402.1.2, the TAG struck the IECC language on scoping, since it was less stringent than the current WSEC requirement.</p> <p>For Sections C402.1.4 and C402.2.1, the TAG consensus was to strike the new subsection for tapered insulation and retain the current WSEC language in C402.2.1.</p> <p>In Table C402.4, TAG consensus was to modify the fixed window U-factor to 0.36 as in the IECC, and to update the SHGC values to those in the 2021 IECC, without orientation. This also removed footnote e.</p> <p>Mike Kennedy asked to table a decision on Section C402.4.4 for further research on the changes for swinging and nonswinging doors.</p> <p>Section C402.5.1.2 was modified for clarity and consistency with the residential provisions of the code. As written, it was deemed to be less stringent than the current WSEC requirements. Mike Kennedy volunteered to research the testing requirements and integrate some of the current language.</p> <p>New IECC Section C402.5.11 has some conflict with the current provisions in C403.4.1.6. TAG consensus was that the specifics be stricken from the section and replaced with a reference to either C403.13 or C403.4.1.6. There is still a conflict over the applicable temperature setpoints and size limitations. Currently, Section C403.4.1.6 is more stringent.</p>
<i>C403</i>	<p>Section C403.1.3: There was discussion on how to move forward on this requirement. The TAG consensus was to leave the existing WA language, as it was the intent to bring forward a proposal to move to ASHRAE 90.4-2019, which does not include design values.</p> <p>There was a brief discussion on Section C403.2.3 and whether it was better suited to be included in the controls section. The consensus was that a proposal should be submitted for a move.</p> <p>Krista noted that some of the values in the minimum efficiency tables were</p>

	<p>corrected/updated in an ASHRAE errata and those changes were made between publication of the integrated draft and this meeting. It was asked if it would be possible to include any changes from 90.1-2021 in the tables, now that ICC has extracted the tables directly from 90.1.</p> <p>The TAG concluded that Section C403.4.1.1 needed further research to integrate the two versions.</p> <p>For Section C403.4.2.4, the TAG consensus was to move to the IECC language.</p> <p>Section C403.7.1: The TAG moved forward with the IECC language for the first paragraph but wanted to research how this would impact DOAS systems before reaching a final determination.</p>
	<p><b>The first section up for review at the next meeting will be C403.7.5, Enclosed loading dock and parking garage exhaust ventilation system controls.</b></p>
4. Meeting Schedule	There was consensus Friday was the best day to meet. The next TAG meeting was set for March 12, from 8 am to 11 am.
Other Business	Krista said the Council received testimony at their recent meeting on the availability of foam insulation meeting the energy code and the HFC limitations from the Department of Ecology and Commerce. Kjell asked that the TAG members provide comments on this issue to him or Council staff.
6. Adjourn	The meeting was adjourned at 12:30 p.m.

Attachments: [Revised Integrated Draft](#)