



STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

Department of Enterprise Services

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### Residential Energy Code Technical Advisory Group Meeting Review Notes for December 17, 2021

Agenda Items	TAG Actions
1. Welcome and Introductions	<p>Kjell Anderson, TAG Chair, called the meeting to order at 8:30 a.m. Roll was taken, and introductions made. Kjell laid out the meeting ground rules and meeting procedures. It is anticipated that the proposal window will begin around the end of February or the beginning of March.</p>
	<p><b>TAG Members Present:</b> Kjell Anderson, Chair; Dave Baylon; Mike Fowler; Mark Sniffen; *Wade Craig; Duane Jonlin; Jonathan Jones; David Reddy; Gary Heikkinen; *Kevin Duell; Andrea Smith; Irina Rasputnis; *Chris Boroughs; Amy Wheelless; Greg Davenport; *Albert Rooks; Henry Odem; Gavin Tenold; *John Lange; Luke Howard</p> <p><b>Visitors Present:</b> Rep. Alex Ramel, Jim Millbauer, Rich Anderson, Kyle Bergeron, Joseph Briscar, Ian Casey, Pamela Colley, Nicholas Harbeck, Adam Hutchinson, Duane Lewellen, Carolyn Logue, Kelly Marciniw, Jeanette McKague, Liz Reichart, Tena Risley, Miguel Rodriguez, Steve Strawn, Ted A. Williams</p> <p><b>TAG Members Absent:</b> Chris Holliday, Patrick Hayes</p> <p><b>Staff:</b> Stoyan Bumbalov, Krista Braaksma, John McEntyre, Serena Grimes</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>
4. Set Meeting Schedule	Krista Braaksma noted that there will most likely need to be a second meeting to get through the integrated draft, most likely scheduled after the holidays. January 7, 2022, was set as a tentative meeting date. Once the proposals received, the review will begin and will need to be completed in early July.
5. Review Integrated Draft – 2021 Washington State Energy Code, Residential	
<a href="#">2021 WSEC-R ID Draft</a>	<p>The draft document being reviewed today integrates all of the 2021 IECC changes into the 2018 WSEC, retaining the WSEC language where it is more stringent than the IECC language. The WSEC Residential provisions covers single family and multifamily three stories and under.</p> <p>Dave Baylon noted there were instances where the integrated draft is not consistent with the requirements in R406. What that intended to be</p>

addressed at this meeting? Kjell replied that the issue would need to be resolved through code change proposals at a later date.

Krista walked the TAG through the changes in the integrated draft.

The TAG discussed the removal of the air impermeable insulation definition and subsequent integration into R303, and whether it would be more helpful to leave the definition. In the end, it was decided to go with the model code changes as shown in the integrated draft. Someone may introduce a code change proposal later.

For High Efficacy Light Sources, the TAG chose to go with the new IECC definition.

Under Section R401.3, Certificate, the TAG felt the new IECC language lacked clarity in item 2 and determined that it should just reference the area weighted average value and not include the value for the largest area. After some discussion on solar requirements and item 6, the TAG determined that the certificate should also include estimated annual electrical generation.

Dave Baylon noted that Tables R402.1.3 and R402.1.4 are inconsistent and will need to be correlated. Kjell noted that would need to be done through code change proposal.

The TAG determined that Section R402.4.1.3, Leakage rate, should be struck as it is redundant with other code requirements and creates confusion.

Footnote b in Table R402.4.1.1 was modified to remove "and at rim joists" based on discussion. There was some conflict with requirements within the table and this just created confusion.

Section R403.2, Hot water boiler temperature reset, was modified to replace "equip" with "configure" for consistency.

The TAG agreed with the placement of the existing state amendment within the new IECC language for Section R403.3.1.

Luke Howard noted that the requirements in Section R403.6.1 are somewhat in conflict with the requirements in the Mechanical and Residential codes. In the end, footnote a was modified to include exhaust airflow rates and the Air handler row of the table was removed, leaving it up to the mechanical code to regulate.

In the Lighting section, the exceptions for detached one- and two-family dwellings and townhouses was removed from R404.1.1, as were the exceptions for luminaires controlled by a motion sensor or that comply with R404.1. The exception for exterior lighting fixtures was deleted from R404.2, Interior lighting controls, as nonsensical. Irina Rasputnis volunteered to look at the cost benefit of lighting controls and perhaps submit a code change proposal.

Krista noted the electricity metric in Table R405.3 was modified for consistency with the commercial code value. The TAG debated the change and voted to keep the 0.44 value, with one opposing vote.

At this point there was a motion to extend the meeting to 1:30 p.m.

In Section R405.3.2.1, Item 2 was modified to include the organization and contact information of the individual performing the analysis. Item 5 was modified to include the estimated annual energy production of any on-site renewable system. These same changes were also made to R405.3.2.2.

	<p>In Table R405.4.2(1), the service water heating language was modified using a combination of the new IECC language and existing state amendment.</p> <p>The TAG did not review the R406 requirements. It was determined that these changes should be left up to code change proposals to integrate the additional efficiency requirements with the base code changes.</p> <p>Krista noted that the change in space conditioning section was moved from the alterations section to the additions section. In the commercial provisions, it was moved to the change of occupancy section. The TAG decided to leave the language as proposed and see if there is a code change proposal to move it later.</p>
6. Adjourn	The meeting was adjourned at 1:25 p.m.

Attachments: [Revised Integrated Draft](#)