



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 May 13, 2022

TAG Members Present: Kjell Anderson, Chair; Dave Baylon; *Chris Boroughs; Jason Carter; Wade Craig; Greg Davenport; *Kevin Duell; Mike Fowler; Patrick Hayes; Duane Jonlin; Jonathan Jones; *John Lange; Jeanette McKague; Henry Odem; Irina Rasputnis; David Reddy; *Liz Reichart; *Albert Rooks; *Lisa Rosenow; Andrea Smith; Mark Sniffen; *Poppy Storm; Gavin Tenold

Visitors Present: Senator Lynda Wilson, Todd Beyreuther, Peter Rieke, Larry Andrews, Kim Barker, Ken Brouillette, Elliott Brown, Ian Casey, Mallorie Davies, Brett Davis, Sean Denniston, Nathan Glass, Daniel Himebaugh, Ly Ho, Harshad Inamdar, Mike Kennedy, Jonny Kocher, Megan Kramer, Mark Lenssen, Carolyn Logue, Megan McPhaden, Scott Novak, Sam Olson, Annie O'Rourke, Tena Risley, Miguel Rodriguez, Kevin Rose, Allison Skidd, Steve Tapio, Dan Wildenhaus

TAG Members Absent: Gary Heikkinen, Luke Howard, Amy Wheelless

Staff: Krista Braaksma, Annette Haworth

* indicates an alternate member

Agenda Items	TAG Actions
1. Welcome and Introductions	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.
2. Review and Approve Agenda	The agenda was approved as modified. Proposal 084 was tabled until the June 3 meeting, and Sean Denniston's proposals 66 and 67 were moved to the top of item 4. Kevin Duell raised a point of order in regard to proposal 080 approved as modified at the May 6 meeting. He believes it may violate the statute. The proposal was added to the end of the agenda.
3. Review and Approve Minutes	The minutes of the May 6, 2022, meeting were not addressed at this meeting. They will be deferred to the May 27 meeting.
4. Review of Code Change Proposals	
065	The first proposals considered is from Sean Denniston regarding heat pump space heating. Sean noted that this is one of three separate but complimentary code change proposals on electrification. In addition to the electrification issues, this proposal also has some efficiency gains. His goal today is to discuss and then table proposal to allow some collaboration to amend the proposal to address as many technical and practical issues as possible. He also noted that this proposal does not seek to modify the additional credits table. The proposal also addresses equity issues by providing cooling in a demographic where it has typically not been included in the past. Sean also noted he is revising the cost analysis.

	<p>Concerns expressed included the amount of electric resistance heating allowed, cost, the effect on the electrical grid, space issues, and the ambiguity of exception 7. Some suggestions included revising the exception to a W/ft² baseline, changing the focus to require heat pumps when cooling is provided, correlating with the requirements of R403.7.1, and waiting for the results of the UTC study in 2023 before making any changes.</p>
066	<p>The second proposal is Sean Denniston's heat pump water heating proposal. Again, Sean is looking for comments in the discussion today before going back to collaboratively amend the proposal.</p> <p>Similar issues were expressed with the proposal, with costs and space considerations being the biggest concerns. There was discussion on whether this should remain in the credit option table rather than being mandated.</p> <p>Sean asked those interested in collaborating on 065 and 066 to email him.</p>
079	<p>The next proposal was from Dan Wildenhaus, changing the fenestration U-factor to 0.28. He noted that this will be the requirement in the 2024 IECC, and Oregon currently has a 0.27 requirement. This also aligns with the previous Energy Star requirements. These windows are widely available.</p> <p>Concerns expressed included availability, price and the removal of an option from the additional credits table. Dan noted the wait time was similar to other window products; he has also submitted a proposal for an additional option in R406, as have others. There was also concern expressed about moving the dew point to the interior of the window and condensation problems. Dan noted there have been no problems in Oregon.</p> <p>Motion: Dave Baylon moved to recommend approval as submitted. Duane Jonlin seconded the motion. The motion carried, 11 to 5 with two abstentions.</p>
082	<p>Lisa Rosenow introduced her proposal reorganizing the air leakage section based on changing moving forward at ICC. The intent was to not make any technical changes, just clean up the section for clarity.</p> <p>It was noted that the exception under R402.4.1.3.1 should be 7 air changes per hour rather than 5; this is one of the rare cases where the state is less stringent than the IECC. There was concern voiced that this would be hard to reach for some additions to older existing homes and could possibly be addressed in Chapter 5 during later review of those proposals. There is also a sentence in the main paragraph of that section referencing 3.0 ACH that was not included in the state amendment and should be struck. The need for training was also emphasized. The TAG spent some time ensuring the language for Group R-2 was consistent with the previous intent.</p> <p>Motion: Duane Jonlin moved to recommend approval as modified. Greg Davenport seconded the motion. The motion carried with no opposing votes.</p>
089	<p>Lisa Rosenow also submitted the next proposal aligning the allowable leakage rate with the lower level in the IECC. She noted that this proposal does not change Section R406. It was suggested that the exception in Section R402.4.1.2 line up with the leakage rate in the commercial code at 0.25 cfm per square foot. Lisa agreed to the change as a friendly amendment.</p>

	Jonathan Jones suggested removing the volumetric adjustment added in the 2018 code and reverting back to actual volume. The TAG debated the change and looked at several options. Motion: Dave Baylon moved to recommend approval as modified . Greg Davenport seconded the motion. The motion carried, 10 to 5 with two abstentions.
	The remainder of the agenda will be addressed in upcoming meetings.
5. Adjourn	The meeting was adjourned at 2:02 p.m.

Attachments: [Updated Tracking Log](#)