



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 July 13, 2023

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.
<p><b>TAG Members Present:</b> Kjell Anderson, Chair; Daimon Doyle; Mike Fowler; Duane Jonlin; *Ray Allshouse; David Baylon; *Lisa Rosenow; Jonathan Jones; David Reddy; *Miguel Rodriguez; Gary Heikkinen; *Kevin Duell; Andrea Smith; Irina Rasputnis; *Chris Boroughs; Poppy Storm; *Albert Rooks; Henry Odum; *Jon Lange; Patrick Hayes; Luke Howard; *Liz Reichart; Jason Carter; Jeanette McKague; Jonah Kinchy; *Michael Brasgalla</p> <p><b>Visitors Present:</b> Council members: Todd Beyreuther, Tom Handy, Peter Rieke Bryan Ahee, Larry Andrews, Cliff Babson, Kim Barker, Katya Bautista, Elliott Brown, Ian Casey, Sue Coffman, Mallorie Davies, Thomas Deary, John Frankel, Shawn Herrington, Ty Jennings, Gregory Johnson, Jonny Kocher, Greg Lasher, Duane Lewellen, Koby Lincoln, Tim Lincoln, Carolyn Logue, Ted McCammant, Scott Peterson, Kathleen Petrie, Kevin Rose, J Sanchez, Lee Sipe, Michael Snook, Andy Stamschror, Scott Swantek, Steve Tapio, Quyen Thai, Kelly Thomas</p> <p><b>TAG Members Absent:</b> Jeromy Moore, Wade Craig, *Mike Poirier, *Megan Kramer, Greg Davenport, Gavin Tenold</p> <p><b>Staff:</b> Stoyan Bumbalov, Krista Braaksma, Kris Irelan, Rozanna Ghanie, Annette Haworth</p> <p style="text-align: right;">* indicates an alternate member</p>	
2. Review and Approve <a href="#">Agenda</a>	Kevin Duell moved to approve the agenda as presented. Luke Howard seconded the motion. The motion passed.
3. Review and Approve <a href="#">Minutes</a>	Albert Brooks moved to approve the minutes from the June 21, 2023, meeting. Jonah Kinchy seconded the motion. The motion passed.
4. Continue Review of Residential Energy Code Proposals for EPCA Considerations and Legal Requirements	Kjell Anderson provided suggestions for the group to move forward with reviewing the remaining proposals. Kevin Duell provided a spreadsheet with similar proposals for the group to review. Discussion was held on what proposals were reviewed at the last meeting and the action that was taken.
<a href="#">005</a>	Greg Johnson indicated his proposal was similar to Henry Odum's proposal 035 with the exception of striking Section R403.5.7.1 and suggested his proposal also be passed. Discussion was held on Greg's proposal as compared to Henry's proposal and questions were asked and answered.  Dave Baylon moved to reject proposal 005. Henry Odum seconded the motion. The motion passed 12 to 6.
<a href="#">002</a>	Ty Jennings noted his proposal is very parallel to proposal 035 with the difference being the fuel normalization credits. Not to raise the credits but

	<p>use Table R406.2 as proposed by Ty Jennings. He then suggested accepting proposal 002 as a parallel proposal to 035.</p> <p>Patrick Hayes moved to approve Proposal 002. Andrea Smith seconded the motion.</p> <p>Further discussion was held on the proposal, and it was noted the MVE Committee should be provided with several options to review. There was discussion Table R406.2 and the credits, when this was previously reviewed and by who (TAG, MVE, Council). Further discussion was held on how the credits were calculated and complying with EPCA.</p> <p>Henry Odum called the question to end discussion on Proposal 002, Albert Rooks seconded. The request failed 6 to 8 with 3 abstentions as the vote needed to pass with two-thirds in favor.</p> <p>Discussion continued on the calculations for the credit values in Table R406.2. A process question was asked and answered the next steps. It was again mentioned to move this proposal forward to provide the MVE Committee with options. Several comments were made in opposition to the proposal as it is believed the proposal isn't complete and could violate EPCA.</p> <p>The vote to approve Proposal 002 failed 6 to 10 with 2 abstentions.</p>
<p><a href="#">006</a> and <a href="#">017</a></p> <p><a href="#">006</a>, <a href="#">007</a>, <a href="#">008</a>, <a href="#">009</a>, <a href="#">010</a></p>	<p>Kevin Duell suggested combining Proposals 006 and 017 and pass along to the MVE Committee as another option to Proposal 035. Greg Johnson agreed with the suggestion and noted that passing these proposals would indicate the TAG agrees that these sections need to change.</p> <p>Dave Baylon moved to disapprove Proposals 006-010 as alternatives to Proposal 035. Jonah Kinchy seconded the motion.</p> <p>Dave Baylon spoke to his motion by stating these proposals are irrelevant and have already been discussed and voted on. Gary Heikkinen disagreed with Dave's reasoning and noted all of the proposals have not been discussed. Greg Johnson spoke to Dave's motion and encouraged the TAG to vote no and review each of his proposals as opposed to a blanket removal of his proposals.</p> <p>Greg Johnson, proponent, spoke to the proposals listed in the motion, by reiterating comments made by Kevin Duell for combining Proposals 006 and 017. Proposal 007 is a simple small fix to solve EPCA issue. Proposal 008 would delete System Type 2. Proposal 009 adds in an option for supplemental gas credit. Proposal 010 adds back credits for water heating to increase efficiency when using gas.</p> <p>Discussion was held on the motion after the review of the proposals by Greg Johnson.</p> <p>Dave Baylon withdrew Proposal 010 from his motion as he misunderstood the proposal and Jonah Kinchy agreed to the modification.</p> <p>Kevin Duell noted that Proposal 007 should also be removed from the motion. Jonah Kinchy agreed with removing 007 from the motion and discussing separately from the others in the motion.</p> <p>Dave Baylon modified the motion to also remove Proposal 007 as long as it is further discussed in the context of other Table 405 proposals.</p> <p>Further discussion was held on Proposal 009 as compared to Proposal 035.</p> <p>The amended motion made by Dave Baylon is to disapprove Proposals 006, 008 and 009. Jonah Kinchy approved the amendments. The motion passed 9 to 8 with 1 abstention.</p>

	<p>Henry Odum moved to include the line “Energy Star rated (U.S. North) gas or propane furnace with a minimum AFUE of 95%” from Proposal 009 and include in Proposal 035. Patrick Hayes seconded the motion. The motion passed unanimously.</p>
<a href="#">010</a>	<p>Greg Johnson noted this was previously discussed and asked for Proposal 010 to be compared to Proposal 035, side by side, to verify the tables are the same. Henry Odum confirmed they are the same and the numbers revert to the 2018 Code.</p> <p>Duane Jonlin moved to disapprove Proposal 010. Mike Fowler seconded the motion. The motion passed unanimously.</p>
<a href="#">016, 017, 018</a>	<p>Kevin Duell noted these proposals are identical to Proposal 035.</p> <p>Duane Jonlin moved to disapprove all three proposals. Chris Boroughs seconded the motion. The motion passed unanimously.</p>
<a href="#">031</a>	<p>Kevin Duell noted that part of Proposal 031 is identical to Proposal 035 and other parts of 031 are the same as 005.</p> <p>Dave Baylon moved to disapprove Proposal 031. Andrea Smith seconded the motion. The motion passed unanimously.</p>
<a href="#">032</a>	<p>Henry Odum commented this proposal is similar to Proposal 035 with the same point values and higher efficiency in Proposal 032.</p> <p>Dave Baylon moved to disapprove Proposal 032. Henry Odum seconded the motion. The motion passed unanimously.</p> <p>Dave Baylon and Henry Odum spoke to the motion.</p>
<a href="#">034</a>	<p>Gary Heikkinen explained his proposal is to strike fuel normalization credits completely and recalculate the credits based on energy efficiency rather than carbon metrics. Discussion was held on the EPCA risk.</p> <p>Daimon Doyle moved to approve Proposal 034 as a parallel option to Proposal 035 with modifications. Chris Borough seconded the motion.</p> <p>Daimon Doyle spoke to his motion. Discussion was held on EPCA risks, federal minimum requirements, and the fuel normalization table and the energy credits table.</p> <p>After discussion about the proposal, Daimon Doyle amended his motion to reevaluate the credit values in R406.3 and well as the tbd items listed in the R406.3 Table. Discussion was held on the amount of work that would need to be completed to fulfill the amended motion.</p> <p>The amended motion failed 5 to 12.</p>
<a href="#">007</a>	<p>Greg Johnson noted his proposal was partially discussed earlier today and it brings the R405.4.2(1) section into EPCA compliance.</p> <p>Questions were asked about the proposal with responses from Greg Johnson. EPCA requirements were discussed in relation to the standard reference design in this proposal. Discussion ensued on the equivalent energy goal to reduce emissions, the percentage of improvement over the federal minimum standards. EPCA violations were brought up as a reminder to the TAG. It was suggested to use a Modeling Approach and not consider the fueling type will reaching to reduction requirements.</p> <p>Gary Heikkinen moved to approve Proposal 007. Andrea Smith seconded the motion. The motion failed 7 to 10 with 1 abstention.</p> <p>Gary Heikkinen spoke to his motion.</p>

	<p>Larry Andrews noted the carbon chart needs to be fixed before moving forward. Larry Andrews also noted the electrical carbon factor needs to be readjusted. The value for natural gas is wrong and should be lowered.</p>
<a href="#">019</a>	<p>Kevin Duell noted this proposal is similar to the previous proposal with the exception of his including space and water heating and is reverting to the previously used specifications for the standard reference and proposed designs.</p> <p>Gary Heikkinen moved to approve Proposal 019. Daimon Doyle seconded the motion. The motion failed 4 to 12.</p> <p>Both Gary and Daimon spoke to the motion. Discussion was held on the EPCA requirements of this proposal. Several people spoke against the proposal due to the language being proposed and it was noted the language is conflicting with what is posted for the 2021 Code and the CR-103.</p>
<a href="#">033</a>	<p>Dave Baylon moved to disapprove Proposal 033. Duane Jonlin seconded the motion. The motion passed 13 to 4.</p>
<a href="#">039</a>	<p>Greg Johnson highlighted the justification of his proposal noting emission targets in the R405.3 were tightened from 11% to 18% but the Table R405.3 changed from .8 to .44 for electricity.</p> <p>Discussion was held on the proposal specifically in relation to the Table and other proposals already discussed. Kjell Anderson provided some history of the Table R405.3. EPCA compliance for this proposal was presented.</p> <p>Kjell Anderson suggested pausing discussion on Proposal 039 to allow time for other proposals to be reviewed and discussed.</p>
<a href="#">002</a>	<p>Kjell Anderson moved to accept the 2 strikeouts from Chapter 5 Proposal 002, as shown on the screen. Duane Jonlin seconded the motion. The motion passed with 1 abstention.</p> <p>Kjell Anderson spoke to his motion by stating since R403.13 and R403.5.7 were struck, these parts of Chapter 5 should be modified. Discussion was held on the motion.</p>
<a href="#">039</a> – cont.	<p>Discussion continued on Proposal 039 regarding Table R405.3 – Carbon Emissions in relation to Proposal 035 and Proposal 038 and it was suggested to bring Proposal 038 back to the table for discussion.</p> <p>Krista Braaksma provided input for moving forward with the request to either modify Proposal 039 or to unwithdrawn Proposal 038. Greg Johnson noted these 2 proposals are very different and doesn't agree with modifying Proposal 039. Further discussion was held on the process and how to move forward.</p> <p>Jonny Kocher unwithdrawn Proposal 038.</p> <p>Stoyan Bumbalov indicated if the proponent withdrew his proposal there is no action required for the proponent to unwithdrawn his proposal.</p> <p>Gary Heikkinen moved to table Proposal 039 until Proposal 038 is discussed. David Reddy seconded the motion. The motion passed unanimously.</p>
<a href="#">038</a>	<p>Jonny Kocher reviewed the sections of his proposal that were pertinent to the discussion held on Proposal 039 and he noted he is eliminating Table R405.2(2) and changing to a Site Energy Table, which would be more EPCA compliant.</p> <p>Discussion was held on the proposal with several suggested changes.</p>

	<p>David Reddy moved to adopt from Proposal 038: R405.2, Table R405.2(1), and striking the Carbon Emissions Factors Table R405.2(2). Poppy Storm seconded the motion.</p> <p>David Reddy spoke to the motion.</p> <p>Kevin Duell made a friendly amendment to strike carbon emissions and replace with site energy in R405.2. David Reddy agreed to the amendment. Henry Odum added to the amendment by striking “annual carbon emissions of the” in number 2 of the same section.</p> <p>Further discussion was held on the proposal.</p> <p>Gary Heikkinen moved to amend the motion by adding Table R405.4.2(1) and changing the language of the Standard Reference Design to the 2018 Code language for heating systems and revisiting the percentages that would be required due to the changes made in the Standard Reference Design. Andrea Smith seconded the motion. The amendment to the motion failed 5 to 12.</p> <p>Discussion was held on the amendment to the motion.</p> <p>The main motion passed unanimously.</p>
<p><a href="#">039</a> – cont.</p>	<p>Greg Johnson noted this proposal should be addressed as a parallel path to Proposal 038 as a source base where 038 is a site-based proposal. Moving both proposals forward would allow for legal review and feedback for both proposals.</p> <p>Larry Andrews, again, pointed out the information in the Table R405.3 is incorrect, and the information was provided to Stoyan Bumbalov months ago and confirmed by the engineer from McKinstry.</p> <p>Dave Baylon moved to disapprove Proposal 039. Duane Jonlin seconded the motion. Tho motion passed 11 to 3 with 2 abstentions.</p> <p>Dave Baylon spoke to the motion and also noted the values in the table, with the exception of the Electricity, come from the EIA standard reference for carbon in indirect use of fuels. Further discussion was held on the values in the table.</p> <p>Greg Johnson indicated the Table could be stricken, if there is some way to capture the emissions a building causes for the report provided by the Department of Commerce. Referring to footnote b. as presented in his proposal. Further discussion was held on this portion of the proposal with several suggestions provided. It was then suggested to prepare something for the MVE Committee instead of trying to wordsmith this proposal during the time left for the TAG meeting.</p>
	<p>Albert Rooks moved to extend the meeting for 15 minutes. Duane Jonlin seconded the motion. The motion passed.</p>
<p><a href="#">015</a></p>	<p>Kjell Anderson provided some background on the proposal. Kevin Duell introduced his proposal.</p> <p>Gary Heikkinen moved to approve Proposal 015. Daimon Doyle seconded the motion.</p> <p>Daimon Doyle made a friendly amendment to the motion to add “4. Atmospheric vented gas water heaters” to the list of Exceptions. Gary Heikkinen agreed to the amendment.</p> <p>David Reddy suggested a revision to the proposal by adding “Storage tanks of service” and deleting Exceptions 1, 2, and 3. Daimon Doyle stated he doesn’t agree with the revision.</p>

	Discussion was held on the proposal. The motion to approve Proposal 015 with the addition of Exception 4 passed unanimously.
5. Adjourn	The meeting was adjourned at 4:13 p.m.

Attachments: [Updated Tracking Log](#)