



STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

Department of Enterprise Services

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### Energy Code Technical Advisory Group Meeting Review Notes for June 15, 2018

Agenda Items	TAG Actions
1. Welcome and Introductions	Meeting called to order at 9:15 a.m. Duane Jonlin welcomed everyone and introductions were made
<p><b>TAG Members Present:</b> Duane Jonlin, Chair; *Al Audette; Amy Wheelless; *Bill Krause; Ryan Russo; Chuck Murray; CJ Brockway; Dave Baylon; Gary Heikkinen; Jared Sheeks; Kim Barker; Lisa Rosenow; Mike Lubliner; Mike Fowler; *Patrick Hayes; Robby Oylear; Treasa Sweek</p> <p><b>Visitors Present:</b> Eric Vander Mey, Andrew Pultorak, Mike Kennedy, Tom Young, Rick Crooks, Louis Starr, Neal Digert, Roger LeBrun, David Mann, Eric Lacey, Tonia Neal</p> <p><b>TAG Members Absent:</b> Alan Duer, Dean Moody, Jonathan Jones, Todd Blevins, Paul Highly</p> <p><b>Staff:</b> Krista Braaksma</p> <p style="text-align: right;">* indicates an alternate member</p>	
2. Review and Approve <a href="#">Agenda</a>	Agenda approved as modified. Bill Kraus requested that proposal Env018 be heard before 016 and 017. Duane also noted he would move up proposal Env043 to ensure it is heard today.
3. Review and Approve meeting notes from January 26, 2018	The <a href="#">meeting summary</a> from January 26 was approved as written.
4. Review of State Energy Code <a href="#">Development Mandates</a>	<p>Eric Vander Mey briefed the TAG on the statutory goals for the energy code. The Council has produced a document outlining the goals with their interpretation of the types of energy use addressed and the methodology used to evaluate cost effectiveness.</p> <p>Dave Baylon asked if the Council had a plan to meet the 70% reduction goal. Eric replied there was no budget to develop an action plan and was pretty much dependent on proposals.</p>
5. Review of Workload and TAG Procedures	Duane outlined a schedule for review of the commercial proposals, with meetings every other Friday, ending with August 10. He noted the TAG would need a robust quorum to properly discuss the proposals.
6. Review of Commercial Admin/Scope and Envelope Code Change Proposals	
<a href="#">EG001</a>	Eric Vander Mey noted this proposal was for clarity—to bring the WSEC in line with the IECC.

	<p><b>Motion:</b> Treasa Sweek, Dave Baylon moved to recommend approval. The motion carried with two opposing votes.</p>
<a href="#"><u>EG002</u></a>	<p>Robby Oylear withdrew his proposal and suggested instead a modification of Eric’s EG003:</p> <p><b>C103.6.1 Record documents.</b> Construction documents shall be updated <a href="#"><u>by the installing contractor and architect or engineer of record</u></a> to convey a record of the completed work. Such updates shall include <a href="#"><u>building envelope</u></a>, mechanical, <a href="#"><u>plumbing</u></a>, electrical and control drawings red-lined, or redrawn if specified, that show all changes to size, type and locations of components, equipment and assemblies. Record documents shall include the location and model number <a href="#"><u>matching the information provided in the manual per C103.6.2.1</u></a> <del>of for</del> each piece of equipment. <a href="#"><u>The installing contractor is responsible for providing redlined drawings for engineer of record review within 30 days of the certificate of occupancy. The architect and engineer of record is required to review the contractor redlined drawings and provide updated consolidated record drawings in compliance with this section to the building owner or owner’s authorized agent with the timeline specified in C103.6.</u></a></p>
<a href="#"><u>EG003</u></a>	<p>Eric Vander Mey accepted Robby’s changes as a friendly amendment to his proposal.</p> <p><b>Motion:</b> Robby Oylear, Dave Baylon moved to recommend approval as modified.</p> <p>Kim Barker felt the code should not specify who’s responsible for the documents.</p> <p><b>Motion:</b> Dave Baylon, Treasa Sweek moved to strike the second to last sentence. The motion carried with three opposing votes.</p> <p><b>Call for the question:</b> The <a href="#"><u>modified proposal</u></a> was recommended for approval with a vote of 7 to 6.</p>
<a href="#"><u>Env005</u></a>	<p>Eric introduced Nathan Miller’s proposal. There was some question as to whether the modification was necessary, since this seems to be standard practice.</p> <p>Duane suggested a modification to simplify the language.</p> <p><b>Motion:</b> Dave Baylon, Lisa Rosenow moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env006</u></a>	<p>Eric noted this definition comes out of ASHRAE 90.1. Treasa questioned the use of the word “ordinarily” but the TAG felt that it was common usage in the code.</p> <p>Duane suggested a modification to exempt emergency exits.</p> <p><b>Motion:</b> Treasa Sweek, Patrick Hayes moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env007</u></a>	<p>Eric said this was a modification and clarification of the language added last cycle.</p> <p>Duane suggested removing the words “Note that” from the last sentence.</p> <p>Mike Kennedy noted that not all areas underneath the slab edge are enclosed and suggested removing that reference in the text and on the illustration.</p> <p><b>Motion:</b> Lisa Rosenow, Mike Lubliner moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env008</u></a>	<p>Lisa Rosenow noted the definition of single-rafter room comes from ASHRAE 90.1. Patrick said single-rafter was not a subcategory of attic roof and suggested that phrase be struck.</p> <p><b>Motion:</b> Robby Oylear, Patrick Hayes moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>

<a href="#"><u>Env009</u></a>	<p>Duane introduced his proposal to align the footnote with the definition. There was some disagreement at the TAG on the different allowances for stainless steel. There were issues mentioned including enforceability and the nature of thermal conductivity.</p> <p><b>Motion:</b> Robby Oylear, Dave Baylon moved to strike the reference to stainless steel. The motion carried with no opposing votes.</p> <p><b>Motion:</b> Dave Baylon, Patrick Hayes moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env043</u></a>	<p>Neal Digert introduced his proposal. He is also the chair for the NFRC task group putting together NFRC 203. The proposal does not change the stringency of the code and uses definitions consistent with other code.</p> <p>The TAG suggested several small clarifying modifications, but also felt the proposal may be in the wrong section, or would need to include modifications to Section C303. Duane suggested Neal Digert think about bringing back a modification that includes edits in Section 303.</p> <p><b>Motion:</b> Dave Baylon, Robby Oylear moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env010</u></a>	<p>Eric Vander Mey noted this comes directly from the California code. Robby noted he proposed a version of this last code cycle, but it failed.</p> <p><b>Motion:</b> Robby Oylear, Treasa Sweek moved to recommend approval. The motion carried with no opposing votes.</p>
<a href="#"><u>Env011</u></a>	<p>Duane noted that he received an email from Eric Makela withdrawing the proposal. Krista noted her office has not received anything official from Eric.</p> <p><b>Motion:</b> Robby Oylear, Patrick Hayes moved to recommend disapproval. The motion carried with no opposing votes.</p>
<a href="#"><u>Env012/013</u></a>	<p>Lisa Rosenow noted she has received <a href="#"><u>comments</u></a> on these items she would like to share, as well as a <a href="#"><u>video</u></a> of automatic shading systems.</p> <p>The two proposals are options with one with envelope and heating system elements and one with just the envelope.</p> <p>Duane felt the TAG needed additional information from the various stakeholders and direction from the Council on how to treat greenhouses. He also would like an idea of how this would impact conventional flower/vegetable operations. Eric noted the TAG could make a recommendation and the Council could then make a policy decision</p> <p><b>Motion:</b> Treasa Sweek, Patrick Hayes moved to table both 012 and 013 for at least two meetings. The motion carried with no opposing votes.</p>
<a href="#"><u>Env025</u></a>	<p>The TAG debated the various fixes to the UA calculations in the various proposals and the need for an immediate fix to the calculations in the 2015 WSEC and whether the NREC forms needed to be changed. There was some debate of the inclusion of SHGC calculations in the 2015 code and whether they were intentionally dropped. Staff was tasked with researching the adoption, and it was noted the Council could eliminate that portion of the proposal if it was determined to be intentional.</p> <p><b>Motion:</b> Treasa Sweek, Al Audette moved to recommend off-cycle adoption of the proposal. The motion carried with two opposing votes.</p>
<a href="#"><u>Env026/027</u></a>	<p>Tabled for continued review and testing of the revised calculations by a subcommittee of interested parties. Volunteers included Robby Oylear, Louis Starr, Patrick Hayes and Dave Baylon.</p>

<a href="#"><u>EW105</u></a>	<p>Eric noted the second exception to the hot water piping requirement was missing in the 2015 WSEC and he could find no documentation on its removal. He believes it was in error.</p> <p><b>Motion:</b> Patrick Hayes, Lisa Rosenow moved to recommend approval for off-cycle rulemaking. The motion carried with one opposing votes.</p>
<a href="#"><u>Env014</u></a>	<p>Lisa noted she submitted a revised version of this proposal. As the code is written now, the use of heat pumps is not allowed because of the cooling capacity. Duane commented that the second exception isn't really an exception and should be included as the final sentence in the paragraph above. The TAG also debated the requirement for a lock out and if just disabling the system would achieve the same results.</p> <p><b>Motion:</b> Patrick Hayes, Robby Oylear moved to recommend approval <a href="#"><u>as modified</u></a>. The motion carried with no opposing votes.</p>
<a href="#"><u>Env015</u></a>	<p>Similar to 014, this addresses the use of heat pumps in equipment buildings. It clarifies that cooling is allowed in equipment buildings, but sets an efficiency limit.</p> <p><b>Motion:</b> Treasa Sweek, Robby Oylear moved to recommend approval. The motion carried with no opposing votes.</p>
<a href="#"><u>Env023</u></a>	<p>Eric Vander Mey noted this adds a section for elevator hoistways in unconditioned spaces, such as parking garages. Krista asked if she could renumber the new section to not displace the two envelope tables. The TAG concurred.</p> <p><b>Motion:</b> Treasa Sweek, Robby Oylear moved to recommend approval. The motion carried with no opposing votes.</p>
<a href="#"><u>Env018</u></a>	<p>Eric Lacey stated the proposal brings mass walls up to the requirements in the 2018 IECC, as well as add options for wood frame walls. There was some TAG discussion that the U-factors and R-values did not correlate. There was also comment that R-20 was not a commercially available batt insulation.</p> <p><b>Motion:</b> Treasa Sweek, Patrick Hayes moved to recommend disapproval. Chuck Murray suggested that a compromise be reached and he and Bill will work to develop a new R-value table based on the required U-factors. Treasa and Patrick withdrew their motion.</p> <p><b>Motion:</b> Mike Lubliner, Lisa Rosenow moved to table. The motion carried with no opposing votes.</p>
8. Other Business	<p>Duane noted the TAG had a large workload to get through over the next four meetings. The TAG elected to add an extra hour to the remaining meetings—from 9 am to 3 pm. The next meeting is scheduled for June 29 at Shoreline City Hall. Krista asked that any members with suggestions on meeting locations contact her.</p>
7. Adjourn	<p>The meeting was adjourned at 2:10 p.m.</p>