



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

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MECHANICAL, VENTILATION and ENERGY CODES COMMITTEE SUMMARY MEETING MINUTES

LOCATION: In response to the Governor's Emergency Proclamation, there was no physical location.

MEETING DATE: July 31, 2020

Members in Attendance: Kjell Anderson, Chair; Eric Vander Mey, Vice Chair; Diane Glenn

Members Absent: Doug Orth, Andrew Klein

Staff In Attendance: Richard Brown, Krista Braaksma, Ray Shipman, Shannon Pitts

Visitors Present: David Nehren, Al Audette, Adam Hutchinson, David Reddy, Henry Odem, Shilpa Surana, Poppy Storm, Jonathan Sargeant, David Stephens, Carolyn Logue, Jeanette McKague, Eric Lacey, Dave Baylon, Mark Heizer, Shawn Mullins, Carol Lewis, Mike Lubliner, Kelly

Agenda Items	Committee Actions/Discussion
1. Welcome and Introductions	Meeting called to order at 10:04 a.m. by Kjell Anderson, Committee Chair.
2. Review and Approve Agenda	The agenda was approved as written.
3. Review and Approve Minutes	The minutes of the June 5, 2020 , meeting were approved as written.
4. Discuss Updated Modeling Results for Residential and Commercial Sectors (2018 vs 2006)	Henry Odem and David Reddy reported on the findings from the sensitivity analysis and preliminary modeling changes for commercial and residential building prototypes. Henry noted there was more variety in the commercial buildings, so the bulk of the effort was focused there. They looked at how unregulated loads impacted modeling assumptions. The results of the sensitivity analysis along with other modeling research will be used to update the draft report, which will come out in a few weeks, as well as provide ideas for how further field research can be incorporated. Dave Baylon felt the report did not draw enough from real world results for the baseline building types. No Committee action was taken on the report.
5. Review Draft 2018 Energy Code Legislative Report	Richard Brown presented an updated draft for the report to the legislature on the 2018 energy code, incorporating the changes suggested at the previous MVE meeting. He noted the Council is still waiting for the final data from Ecotope before the report can be updated with some of the 2018 data.

	<p>The Committee debated the inclusion of the energy savings per measure, whether it should be deleted completely and just have an overall savings report, or to have items highlighted as high, medium and low energy savings. Mike Lubliner suggested adding a statement that the savings are only modeled and to be realized as actual savings, there needs to be sufficient training and education. Kjell offered to draft some language.</p> <p>Eric noted that some of the data on IECC energy savings needs to be updated to the 2018 DOE determination data. There are also some areas where the text needs to be updated to reflect the most recent statutory language.</p> <p>Poppy Storm felt it was important to add more explicit language on market and knowledge and supply of equipment. She also suggested that the report take EUI into consideration. She agreed to provide some language to Richard.</p> <p>Other written comments can also be forwarded to Richard.</p> <p>Eric suggested the Council's legislative ex officio members be invited to the next meeting to discuss the report before it becomes final.</p>
6. Request for Opinions (See attached)	The Committee reviewed a request for opinion, 20-July01, from Spokane Valley regarding air movement in corridors in an R-2 Occupancy. The committee approved the opinion with modifications.
6. Staff Report	Richard reported the next MVE meeting is scheduled for August 21.
7. Other Business	None.
8. Adjourn	Meeting was adjourned at 11:38 a.m.

Attachments: Opinion 20-July01 with Committee modifications

STATE BUILDING CODE OPINION 20-July01

CODE: 2015 International Mechanical Code
2015 International Building Code

SECTION: IMC 601.2, Air movement in egress elements
IBC 1020.5, Air movement in corridors

BACKGROUND: V-A construction, R-2 occupancy, 4-story wood-framed corridor loaded 170 unit apartment building, 13R sprinklers, fire alarm system. The corridors are 1-hour-rated fire partitions.

HVAC Design: 2 mechanical units are installed in the attic space at opposite ends for the corridor and air is ducted from each through shafts to their respective ends of the corridor. There is no ductwork in the corridor itself. Tempered air is supplied at one end of the corridor and pulled to the other by a combination of exhaust & return. The return air is taken back to the attic space mechanical unit and resupplied to its side of the corridor. *The southern mechanical system supplies air to floors 1 & 3 and returns air from 2 & 4. The northern mechanical system supplies air to floors 2 & 4 and returns air from 1 & 3.*

The system is designed for the corridors only, no air designed to be shared with any adjoining spaces. The residential units all have their own independent HVAC systems. The exit stairwells have their own independent HVAC systems. The systems would require return air duct detection in accordance with WSMC 606. Mechanical units would shut down upon smoke. Corridor duct penetrations are protected by smoke fire dampers.

QUESTION: Are the corridors in this situation acting as a supply, return, exhaust or ventilation air ducts for other (separate) corridors and therefore prohibited as per IMC 601.2 and IBC 1020.5?

ANSWER 2: **No. The intention is that the corridor is not used as a duct to serve tenant spaces, dwelling units, sleeping units or other such spaces connected to the rated corridor.**

SUPERSEDES: None

REQUESTED BY: City of Spokane Valley