



## IECC/DGC Energy Committee Hearing Meeting Minutes # 1

January 27, 2022

2 p.m. – 5 p.m.

City and County of Denver

### 1. Roll Call and Introductions

Name of Committee Member		In Attendance?
Aaron Esselink		X
Carol Pafford		X
Chris Parr		X
Chris Spelke		
Christy Collins		X
Chuck Bartel		X
Allen Yanong		X
Courtney Anderson		X
Elizabeth Gillmor		X
Eric Browning		X
Jamy Bacchus		X
John Burns		
Ken Urbanek		Cannot attend 1st code hearing
Adam Lyons		X
Nate Huyler		X
Curtis Underwood		
John Dutch		X
Jeff Crowe		
Linda Morrison		X
Mike Walton		X
Nathan Kahre		X
Paul Kriescher		Cannot attend 1st code hearing
Paul Schaffer	<b>One vote</b>	
Robert Pruett		X
Antonio Navarra		X
Shanti Pless		X
Chuck Kutscher		X
Mark Rodriguez		X
Bill Rectanus		X
Bryan Kazin		X
Paul Kancir	<b>One vote</b>	X

Curtis Werner		X
Stephen Sanderson	<b>NON-VOTING</b>	X
Alex Martin	<b>One vote</b>	X
Kevin Eronymous		X

## 2. Discussion and voting on **IECC/DBC-Commercial and DGC Ch.7**

### a. [#14](#): C402 - Mandatory Min Insulation

- Support
  - Taylor Roberts: Is fenestration included? Support this effort.
    - Response: No- the intent was to only include opaque surfaces.
- Opposition
  - N/A
- Committee Questions/Comments
  - Elizabeth: UA alternative supports flexibility. Potentially apply to a percentage of the building envelope. Build in flexibly into adaptive reuse. Why place requirement in C407?
    - Places limitations on performance approach
  - Eric: Amend C407 to exclude certain buildings that have data center spaces. Is there another metric than 750 kW?
  - Linda: Is there a need for a backstop from the community?
  - Chuck K: Are the insulation values older? Embodied Carbon should be
  - Chuck B: C402.4.2 should be C402.4.3 is a base code amendment and remove footnote.
  - Carol: Data center exception should be clarified for load instead of kW
  - Sean: Backstop should only apply to new construction.
  - Jamy: How is spandrel treated? T24-2019 Section 120.7.b)6. has a specific accommodation for spandrel with a U-0.280. Are you suggesting that spandrel fit into the metal framed wall? U-0.0064?
- Support (Rebuttal)
  - Kye: Limit exceptions as much as possible for ease of interpretation
- Opposition (Rebuttal)
  - N/A
- Motion: Motion to Modify
  - Edit correct reference C402.4.2 should be C402.4.3
  - Exception: adding "Buildings or portions thereof"
  - Delete footnote a

- Add clarification to exception to include “electrical”
  - **Vote: Motion to modify (23 votes yes)**
- Motion: Motion to Approve with intent to modify 5% of envelope and modify name of table C407.4.1.6 for clarity
  - **Vote: Motion to Approve with modifications: Passed (20 votes yes, 1 vote no, 3 abstained)**
- b. [#P12.1](#): C402.5.11 – Operable Openings/Evaporative Cooling
  - Support
    - Mark Jelinski: Can model with DX cooling and evap is only at the trim, it reduces cooling hours. Allow for supplemental DX cooling that would interlock with the doors.
  - Opposition
    - N/A
  - Committee Questions/Comments
    - Eric: “Systems utilizing evap cooling” should we be speaking to the tenant spaces rather than systems?
    - Paul Kancir: Purpose is not to have any mechanical cooling. Set point would need to be raised.
  - Support (Rebuttal)
    - N/A
  - Opposition (Rebuttal)
    - N/A
  - Motion: Motion to approve as submitted
  - **Vote: Passed** (23 for, against, 1abstentions)
- c. [#3](#): C403.2.3 – Fault Detection and Diagnostics (FDD)
  - Support
    - Mark Jelinski: Support C402.3.3, but does not support C403.5.5 and suggests we hold off on modifying the trigger for that section until another proposal is heard.
    - Kye Holtan-Brown: Change 20,000 sqft to 25,000 sqft to align with other Denver Ordinances. Include exception for certain size alterations.
  - Opposition
    - N/A
  - Committee Questions/Comments
    - Eric: Edit to remove the ‘s in #2 and to remove C403.5.5
    - Elizabeth: Not clear on what will be sampled
    - Chuck B: Agrees with Elizabeth, it will be hard for designers and building officials
    - Eric: Would this be difficult to enforce?
    - Chuck: Comfortable with it being base code, but if someone has a question, it is not laid out clearly
  - Support (Rebuttal)

- N/A
- Opposition (Rebuttal)
  - N/A
- Motion: Motion to strike “s” and all proposed C403.5.5 and change square footage to 25,000
  - **Vote: Passed** ( 21 for, 0 against, 0 abstentions)
- Motion: To approve as is
  - **Vote: Passed** ( 20 for, 0 against, 3 abstentions)
- d. [#P12.2](#): C403.3.3 – HVAC Equipment Air source heat pump
  - Motion: To Table so coordination can occur with SWEEP on P40
    - **Vote: Tabled** ( 22 for, 0 against, 1 abstentions)
- e. [#P12.3](#): C403.7.4.2 – Spaces other than non-transient dwelling units
  - Support
    - Mark Jelinske: What happens to the already include Denver Amendments? Lab exhaust conflicts with IMC.
  - Opposition
    - N/A
  - Committee Questions/Comments
    - Linda: Enthalpy recovery ratio of 60 percent
      - Would allow heat wheels and plate heat exchangers, put a burden on heat pipes and run around in Lab.
    - Chuck: Is 0.6 in w.g. available in common systems? Added table exhaust? Proposed exception deletes existing exception.
      - Bypass limitation is a good idea and pressure drop up to 1.2 is included. Meet both supply and exhaust for the % of outdoor air. Revised exception includes pervious exception with a lower percentage
    - Elizabeth: Extend lab applications exceptions to include healthcare
  - Support (Rebuttal)
    - Mark Jelinske: Table to be tweaked, need to specify what healthcare is exempt
  - Opposition (Rebuttal)
    - N/A
  - Motion: Motion to Table until the code hearing on the 24<sup>th</sup>
    - **Vote: Passed** ( 22 for, 0 against, 0 abstentions)