# 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

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

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 24th
  • Vote: Passed (22 for, 0 against, 0 abstentions)