IECC/DGC Energy Committee Offline Hearing #1

1. Attendees:

<table>
<thead>
<tr>
<th>Name of CCD Committee Member</th>
<th>In Attendance?</th>
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<tbody>
<tr>
<td>Carol Pafford</td>
<td>X</td>
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<td>Christy Collins</td>
<td>X</td>
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<td>Chuck Bartel</td>
<td>X</td>
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<td>Allen Yanong</td>
<td>X</td>
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<td>Courtney Anderson</td>
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<td>Eric Browning</td>
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<td>Adam Lyons</td>
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<td>Mike Walton</td>
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<td>Paul Schaffer</td>
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<td>Robert Pruett</td>
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<td>Antonio Navarra</td>
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<td>Tom Gleason</td>
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2. Meeting purpose: Not going to be able to discuss all proposals in hearing agendas – having internal city agendas/discussions – doing this with less contentious items. Vetting less-controversial proposals in these meetings to advance. Want to be transparent, so members of the public can know what we’re talking about.

   a. Eric Browning will move vetted proposals forward (proposals discussed in these internal meetings) to the IECC/DGC committee we’ll have other proposals advanced by the committee through the traditional process

3. Discussion and voting on IECC/DGC Energy

   Commercial

   a. #100 DGC NZE Path; Denver

   Action items:
   - Table this conversation and Request Jonny Rogers from CASR to attend next meeting

   Discussion:
   - Net zero energy path for Denver green code. Would allow for offsite renewable electricity path if you meet exceptions – must meet exceptions for offsite to promote more-beneficial onsite generation. Commercial only.
   - Christy – how is Xcel reacting when someone is building offsite solar – wants to
understand how this process works to spur additional renewable capacity. Also how
is Xcel calculating 80% - Xcel meeting 80% of Denver’s electricity needs – how is Xcel
calculating this and planning for future electricity demand. How is 80% energy goal
adjusted each year as electricity demand rises? @Jonny

- Pilot teams should be trying their best to meet goals/pilot outcomes
- If a developer sells a property, developer has to disclose DGC involvement related to
that property

b. #62 C402.5.1.2 Air Barrier Compliance; Noresco/Denver

Action items:
- Provide Noresco with notes to update proposal
- If a project exceeds 0.6 threshold and they’ve done corrective measures and
it didn’t work, what do they need to do? @Courtney utilize exception Allen
saw in other portion of the code. No penalty for over 0.4 but penalty for
over 0.6. Adjust for R&I occupancies
- Residential exception from 0.3 to 0.5 and then nonresidential from 0.4 or
4.6 CFM – match C402.5.3 @Courtney – what happens when they exceed
these limits?
- @Courtney Keep deletion within the code – exceptions have been removed
and testing is required

Discussion:
- Proposal was written by Noresco – air barrier testing
- Makes air sealing testing required rather than give options
- Chuck: a lot of references in code were deleted on how to construct an air barrier
that meets code/performance test. What happens if they don’t pass air barrier test?
Information on how to construct an air barrier is useful

c. #74.2 C405.13 - Congregate roof penetrations for solar; Noresco/Denver

Action items:
- Provide Noresco with notes to update proposal

Discussion:
- Proposal was written by Noresco
- Adequate roof area for future onsite solar
- Difference in exception requirements is unclear – 4+ stories above grade for
non-residential buildings, but 7+ stories above grade for high-rise
residential and hotels
- Should this match the existing Appendix?
d. **#88 DGC 401.7 Equipment Sizing HVAC Filtration; Noresco/Denver**

**Action items:**
- @Courtney to send this proposal to Noresco today and tell them to finalize proposal based on notes.

**Discussion:**
- Proposal was written by Noresco
- Manual D Calculation Requirement for MERV 13 Filter
- Section R 403.7 of the energy code already requires the use of for the sizing to be based on ACCA Manual J&S. Simply section and require MERV 13 to be required and other 3 things would be required already elsewhere in code. Chapter 16 in IRC requires manual D. Already required in IECC base code.
- Chuck: All 401.7 could be simplified by saying a minimum of MERV 13 filtration shall be installed
- Courtney: changed title to Filtration Equipment
- DGC appears to require MERV 13 already – only thing that may need to be added is the system cleaning aspect. This section on cleaning can be added to section 8 – it excludes all commercial buildings, so just residential since it’s IRC.