ICF Committee Hearing Agenda
September 10th 2019 2pm-5pm
City and County of Denver, Room 4i5

1. Roll Call and Introductions

2. Discussion and voting on Previously Tabled Proposals
   a. (P149) F129: DBC-IFC Section 907.1.5
   b. (F52): DBC-IFC Section 5307.6
   c. (F47): IFC Section 919.21 (Moved to 9-17 Agenda)

3. Discussion and voting on New Proposals (proposed to address P149)
   a. (F146)497: DBC-IFC Section 114.2
   b. (F147)498: DBC-IFC Section 503.2.7
   c. (F148)499: DBC-IFC Section 606.8
   d. (F149)500: DBC-IFC Section 907.1.6
   e. (F144)495: DBC-IFC Section 908.8
   f. (F145)496: DBC-IFC Section 915.7.4.6

4. Discussion and voting on Chapter 9
   a. (F8): DBC-IFC Section 903.2.11.1.4
      • (Requested to be heard after 705.8 was heard in IBC, will go over results when this item comes up)
   b. 40: DBC-IFC Section 915.7.4

5. Discussion and voting on Chapters 10,11 & 12 of the DBC-IFC and/or IFC
   a. (F59): DBC-IFC Section 1013.6
   b. (F55): DBC-IFC Section 1101.1
   c. (F30): IFC Section 1203

6. Discussion and voting on Chapter 27 of the DBC-IFC and/or IFC
   a. (P150): DBC-IFC Section 2703.12.1
   b. (P134): DBC-IFC Chapter 27

7. Discussion and voting on Chapter 34 & 39 of the DBC-IFC and/or IFC
   a. (F143): IFC Section 3405
   b. (F58): DBC-IFC Section 3903.8
   c. (F57): DBC-IFC Section 3903.1.1
   d. (F60): DBC-IFC Chapter 39

8. Discussion and voting on Chapter 53 of DBC-IFC and/or IFC
   a. (P92): DBC-IFC Section 5307
   b. (P93): DBC-IFC Section 5307
   c. (P23): IFC Section 5307
   d. (P3): DBC-IFC Section 5307.1

9. Discussion and voting on Chapter 60 of the DBC-IFC and/or IFC
   a. (F1): DBC-IFC Section 6004.2.2.10.2

10. Discussion and voting on Chapter 80 of the DBC-IFC and/or IFC
    a. (P7) (F91)284: DBC-IFC Chapter 80
    b. (F48)233: DBC-IFC Chapter 80 Revised Standards
11. Discussion and voting on Appendix Chapters DBC-IFC
   a. (P39)334: DBC-IFC Appendix N103.3.1
   b. (P147) (F127)465: DBC-IFC Appendix N Section 103.14
   c. (P148) (F128)466: DBC-IFC Appendix N Section 103.15
   d. (P22) (F94)315: DBC-IFC Appendix P

Please note that any items that we do not get to in this hearing will be automatically transferred to the next scheduled hearing date and will be the first items on the agenda for that hearing.

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Proposal # P149
Graphic maps annunciator monuments.
Public Testimony in Support:
Fire department supports the wording changes by the committee.
Additional staff or committee comments for the record:
Needs further review, possible duplicate.

Proposal # F52
Public Testimony in Support:
Replica of 5309 in current 2016 fire code amendments. Carried through to provide mechanism for regulating inert gas systems. Added to give us ability to provide regulations to other businesses that use these gases. These gases present the same hazard regardless of what type of business they are being used for. This specifically addresses all the other hazards with other inert gases. Gives ability to address other businesses that may be using these gases in their normal business practices in order to address the hazards they present.
Public Testimony in Opposition: None
Questions from the Committee to Proponent:
1. Is this for new and existing?
   a. Chapter 11 had retroactive ordinance for people to come in to compliance. Retroactive part has already been brought in.
   b. This is already in the code, just relocating the information. New format of 5307.6
2. 4 additional proposals on Item 8 in the agenda that deal with the same issue?
a. Those specifically deal with CO2 and beverage dispensing.

**Original Motion: A/S with Intent to Modify (ASM)**

**Discussion:**
- Need to add 3rd exception to look at 5307.6 DBC. Attempting to coordinate with the mechanical code that requires compliance with inert gas section.
- In 5307.6.4 of DBC Ventilation Section, asking that we add exception that mimics exception in IMC regarding cryogenic gases.

**Support:**

**Modification #1:** To the IFC – Add new section 5307.2 “Areas containing insulated liquid cryogenic fluid systems used in commercial, manufacturing or industrial applications shall comply with section 5307.6 of DBC-IFC”

**Discussion:**
- Just placing a pointer
- Exception to generic ventilation section.
- If we add an exception and they go with 1 they won’t go to the 3rd exception. Feel we might need to say “consider all” so user doesn’t determine compliance with 1 exception and stop reading.
  - Maybe pointer should just be in the body of the code instead of the exception.
  - We don’t want the exception to trump the rule.
  - Maybe just give the language its own section instead of putting in the body or in an exception- 5307.2.2.
  - Committee changed the modification at this point to make this wording a new section instead of an exception.

**Vote on Modification:** Passes 10-0-1

**Modification #2:** 5307.6.4 Adding an exception “Ventilation for indoor dispensing areas is not required where it can be demonstrated that cryogenic fluids do not create harmful vapors”

**Discussion:**
Wording for this proposed exception is already in the IMC.

**Vote on Modification:** Passes 10-0-1

**Final Motion: As Modified**

**Final Vote:** AM Passes 10-0

**Additional staff or committee comments for the record:** None

**Proposal # F146**
Adding 3 new disciplines under Fire Prevention Licensing Program.

**Public Testimony in Support:** None

**Public Testimony in Opposition:** None

**Original Motion:** A/S with Intent to Modify (ASM)

**Questions from the Committee to Proponent:**

**Committee Discussion:**
- Appear to be for apprentice inspectors. Apprentice is not designated under any other disciplines.
  - Apprentice gives the impression there is a person higher up and that is not addressed here.
  - Idea is for the lowest denominator to be able to perform this function.
  - If you just say inspector or apprentice/inspector, it covers all.
  - Committee feels apprentice should be taken out and just say inspector so as not
to limit.
  o Apprentice is defined in all the other disciplines so keeping it here will ensure consistency.

- Denver licensing currently has 9 disciplines, we are trying to add new disciplines under our programs to provide proper training and compliance.
- This deals specifically with CO2 and Multi Family. Attempt was to reduce the number of non-complying multifamily by lowering the fee so people can inspect their own properties because these are difficult to inspect.
- When Fire goes out there is no common area for them to inspect and makes it extremely difficult to complete inspection because Fire can’t inspect someone’s private dwelling unit.
- Concerns about the specific licensing requirements and the liabilities associated with these licenses.
- Concerns about who would be allowed to do this testing, would we want the conflict of interest of an owner being licensed to do the inspection on their own property.

Modification: Accept 34, 35 and strike 114.2.36
Final Motion: As Modified
Final Vote: AM Passes 10-0
Additional staff or committee comments for the record: None

Proposal # P22
Tall Wood Proposal. New Appendix Proposed in IBC.

Public Testimony in Support:
- Goes with addition of Appendix U to the IBC. Add 3 new mass timber types. Text has already been accepted by IECC. Section gives criteria for design of safe and fire resistance tall wood structures, gives building dept ability to review and enforce. 2 sections just update numbering, 1 adds additional fire protection.
- First 2 are administrative for completeness. Last provision is addressing requirements for building skins to follow construction to keep building contained during construction.

Public Testimony in Opposition: None

Questions from the Committee to Proponent:
  1. Is the language verbatim from 2021?
     a. Yes

Original Motion: As-Submitted (AS)
Reason: This has been discussed intensely at national level for over a decade and it did make it in to 2021 national codes, well recognized, well discussed, thoroughly vetted. Bringing it in to Denver helps from code enforcement process. Will save admin work to look at approving these, lessen the number of admin modifications.

Committee Discussion:
- Gives us a 3-year head start.
- Any admin modifications for heavy timber now?
  o Yes. Very limited. None since 2021 passed at national level. Those outstanding are heavy hybrids. We have rejected projects due to not have the comfort of knowing enough about this.
- Intent of safety features during construction are addressed within this proposal.
- Water supply section could create a conflict, as this is already addressed in our DBC amendments.
Concerns that we should amend and using the wording from our current code regarding water supply in order to avoid a conflict in the code.

- Denver is already more restrictive at 75 feet, versus the proposed 420 feet proposed here. So, this section on Water Supply is not needed.

- Is fire department looking at any requirements under construction to address?
  - No, not currently. Nothing here that would override what we currently have.

**Modification:** Delete entire section: 914.3.1.2 Water Supply to required fire pumps

**Final Motion:** As Modified

**Final Vote:** AM 7-2-1

**Additional staff or committee comments for the record:** None

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**Proposal # P92**

25 pounds of decompressed Carbon Dioxide displaces less than 225 cubic feet of atmosphere. This volume is insufficient to create life safety issues in any habitable below-grade environment. This value can be substantiated by multiplying the maximum pounds of CO2 (25) times the cubic volume of decompressed CO2 (8.566 cubic ft). Prohibition of such small amounts of CO2 creates both a compliance burden on affected businesses and unnecessary enforcement time and expense for the Department.

**Public Testimony in Support:** None

**Public Testimony in Opposition:**

- DFD- Any system with more than 100 pounds or any amount of CO2 below grade, this proposes 25 pounds below grade, justification is that 25 pounds of decompressed displaces less than 225 cubic feet. Supporting info is mislabeling CO2. Major concern about misrepresentation of the hazards of CO2.
- Multiple fatalities across the nation from CO2.
- CO2 requirements were made retroactive and about ½ of taverns have already upgraded their systems.

**Original Motion:** Disapprove (D)

**Reason:** Based on opposition testimony.

**Final Motion:** Disapproval

**Final Vote:** D Passes 10-0

**Additional staff or committee comments for the record:** None

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**Proposal # P93**

This policy covers the installation, maintenance, operation and permitting requirements as they pertain to the use of Carbon Dioxide (CO2) compressed gas systems with more than 100 pounds (45.5 kg) of Carbon Dioxide (CO2) or any system using any amount of Carbon Dioxide (CO2) per container above grade or more than 25 pounds (11.35 kg) of Carbon Dioxide (CO2) per container below grade used in beverage dispensing applications in new and existing facilities within the City and County of Denver

**Public Testimony in Support:** None

**Public Testimony in Opposition:**

**Original Motion:** Disapprove (D)

**Reason:** Based on previous action.

**Final Motion:** Disapproval

**Final Vote:** D Passes 10-0

**Additional staff or committee comments for the record:** None
Proposal # P23
25 pounds of decompressed Carbon Dioxide displaces less than 225 cubic feet of atmosphere. This volume is insufficient to create life safety issues in any habitable below-grade environment. This value can be substantiated by multiplying the maximum pounds of CO2 (25) times the cubic volume of decompressed CO2 (8.566 cubic ft). Prohibition of such small amounts of CO2 creates both a compliance burden on affected businesses and unnecessary enforcement time and expense for the Department.

Public Testimony in Support: None
Public Testimony in Opposition: None
Original Motion: Disapprove (D)
Final Motion: Disapproval
Final Vote: D Passes 10-0
Additional staff or committee comments for the record: None

Proposal # P3
25 pounds of decompressed Carbon Dioxide displaces less than 225 cubic feet of atmosphere. This volume is insufficient to create life safety issues in any habitable below-grade environment. This value can be substantiated by multiplying the maximum pounds of CO2 (25) times the cubic volume of decompressed CO2 (8.566 cubic ft). Prohibition of such small amounts of CO2 creates both a compliance burden on affected businesses and unnecessary enforcement time and expense for the Department.

Original Motion: Disapprove (D)
Final Motion: Disapproval
Final Vote: D Passes 10-0
Additional staff or committee comments for the record: None

Proposal # F147
Public Testimony in Support: None
Public Testimony in Opposition: None
Original Motion: A/S with Intent to Modify (ASM)
Questions from the Committee to Proponent:
Committee Discussion:
• This was taken out by mistake in the previous code cycle, just proposing to bring back in.
• In base code it talks about utilizing DFD based on apparatus specifics for Denver. Need something in code to accommodate the differences in Denver regarding slopes on road ways.
• Suggestion that we put new access roads in to the wording.
  o Some committee members feel it is already implied.
• DFD is currently working with Public Works to determine current topography and how we can utilize new apparatuses.
• Some committee concerns about the numbers being used, where the 5% originates from and why.
  o Suggestion to add “or as approved by the Denver Fire Department”
Modification #1: Add 5%
Vote on Modification: Passes 10-0
Modification #2: 503.2.8“Angle of approach and departure for fire apparatus access roads shall not exceed 6 degrees or as approved by the Denver Fire Code Official
Vote on Modification: Passes 7-1-2
Final Motion: As Modified
Final Vote: AM Passes 5-1-4
Additional staff or committee comments for the record:

Proposal # F148
Public Testimony in Support: None
Public Testimony in Opposition: None
Original Motion: As-Submitted (AS)
Questions from the Committee to Proponent:
1. Are these units available with the read out easy to attain?
   a. Yes, they have been available for years.
2. Does this amendment and the read out achieve the goal of identifying the problem?
   a. Yes
Committee Discussion:
- These test kits do not work at our elevation. The sensors being proposed will give more accurate information.
- Unintended consequence is we would be getting rid of lower end solutions.
- Some committee members feel like this is unclear that it is for new buildings.
  o Some feel that because it is Chapter 6 it is for new buildings.

Final Motion: As Submitted
Final Vote: AS Passes 10-0
Additional staff or committee comments for the record:

Proposal # F149
Public Testimony in Support: None
Public Testimony in Opposition: None
Original Motion: A/S with Intent to Modify (ASM)
Discussion:
- Need to remove “capable of such”. It leaves it open for people to say, “my system isn’t capable”. Not needed.
  o Removing it makes it clear that you need a system design that perform this function.

Modification:
505.1 Remove “Capable of such”
Final Motion: As Modified
Final Vote: AM Passes 10-0
Additional staff or committee comments for the record: None

Proposal # F145
Public Testimony in Support: None
Public Testimony in Opposition: None
Discussion:
- Concerns that we shouldn’t add language for enforcement.
  o Driving section says New Building.
- Committee members have had in the field orders to comply for existing buildings being forced to be changed out.
  o Seems to be more of an enforcement issue.
• If we add the sentence saying that this requirement is not retroactive it makes things inconsistent within the code and can cause confusion.
  o Seems to be more of a training/education issue.
• Ultimately the committee decided that this is something that will have to be dealt with by training/education and enforcement.

Original Motion: A/S with Intent to Modify (ASM)
Final Motion: As Submitted
Final Vote: AS Passes 8-2
Additional staff or committee comments for the record: None