DENVER AMENDMENT PROPOSAL FORM
FOR CPD INTERNAL PROPOSALS TO THE 2016 DENVER BUILDING CODE AMENDMENTS AND THE 2018 INTERNATIONAL CODES

2018 CODE DEVELOPMENT CYCLE

1) Name: David Renn, PE, SE Date: 3/8/2019

2) Proposals should be drafted in Word with the only formatting that is needed being BOLDING, STRIKEOUT AND UNDERLINING. Please do not provide additional formatting such as tabs, columns, etc.

Please use a separate form for each proposal submitted.

Is separate graphic file provided? ☐ Yes ☒ No

<table>
<thead>
<tr>
<th>Acronym</th>
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<tr>
<td>DBC-xxx</td>
<td>Denver Building Code–xxx code base</td>
<td>IMC</td>
<td>International Mechanical Code</td>
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AMENDMENT PROPOSAL

Please provide all of the following items in your amendment proposal.

**Code Sections/Tables/Figures Proposed for Revision:**

DBC-IBC 713.4

**Note:** If the proposal is for a new section, indicate (new).

**Proposal:**

Delete without substitution

**Section 713.4 Fire resistance rating is amended by adding the following Exception:**

**Exception:**

Shaft enclosures for piping, ducts and vents may be of one-hour fire-rated construction in buildings of five stories or less and of Construction Types of II-A, III-A, III-B, V-A.

**Note:** Show the proposal using strikeout, underline format. At the beginning of each section, one of the following instruction lines are also needed:

- Revise as follows
- Add new text as follows
- Delete and substitute as follows
- Delete without substitution

**Supporting Information:**

This proposal is to delete Denver’s amendment to IBC 713.4 since this amendment is not related to any physical, environmental or customary characteristics that are specific to the City and County of Denver. Furthermore, this amendment is less restrictive than the IBC for a fire safety provision and the wording in the amendment is inconsistent with the IBC as discussed below.
The current amendment adds an exception that allows the fire-resistance rating of shaft enclosures for piping, ducts and vents to be reduced from 2 hours to 1 hour for buildings of five stories or less and of certain construction types. The IBC requires shafts to have a fire-resistance rating of 2-hours where connecting four stories or more, regardless of the use of the shaft and regardless of construction type. There is no justification for Denver’s amendments to be less restrictive than the IBC and to reduce the requirements of a fire safety provision.

Also, the wording in this amendment is inconsistent with the wording in IBC 713.4, that this amendment is an exception to. IBC 713.4 bases shaft enclosure fire-resistance ratings on the number of stories connected by the shaft, including basements. The exception is instead based on “buildings of five stories or less”, which could be interpreted as a building with five stories above grade plane and any number of basement stories, possibly resulting in shafts that connect more than five stories, including basements.

For the reasons above, it is proposed that Denver’s current amendment to IBC 713.4 be deleted.

Note: The following items are required to be included:

Purpose: The proponent shall clearly state the purpose of the proposed amendment to physical, environmental and customary characteristics that are specific to the City and County of Denver (e.g., clarify the Code; revise outdated material; substitute new or revised material for physical, environmental and customary characteristics; add new requirements to the Code; delete current requirements, etc.)

Reasons: The proponent shall justify changing the current Code provisions, stating why the proposal is necessary to reflect physical, environmental and customary characteristics that are specific to the City and County of Denver. Proposals that add or delete requirements shall be supported by a logical explanation which clearly shows why the current does not reflect physical, environmental and customary characteristics that are specific to the City and County of Denver and explains how such proposals will improve the Code.

Substantiation: The proponent shall substantiate the proposed amendment based on technical information and substantiation. Substantiation provided which is reviewed and determined as not germane to the technical issues addressed in the proposed amendment shall be identified as such.

Bibliography (as needed): The proponent shall submit a bibliography when substantiating material is associated with the amendment proposal. The proponent shall make the substantiating materials available for review.

Referenced Standards:

None.

List any new referenced standards that are proposed to be referenced in the code.

Impact:

This proposal will increase the cost of construction relative to Denver’s 2016 IBC amendments to the 2015 IBC but would have no effect relative to the 2018 IBC. This should have little or no effect on the cost of design. This proposal deletes a less-restrictive amendment to bring Denver in line with the IBC.

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of construction; ☒ Increase ☐ Reduce ☐ No Effect
- The effect of the amendment proposal on the cost of design; ☐ Increase ☒ Reduce ☒ No Effect
- Is the amendment proposal more- or less-restrictive than the I-Codes; ☒ More ☐ Less ☒ Same

Departmental Impact:

This proposal should have little or no effect on review and inspection.

Note: The proponent shall discuss the impact of the proposed amendment and indicate one of the following for each point below regarding the amendment proposal:

- The effect of the amendment proposal on the cost of review; ☐ Increase ☐ Reduce ☒ No Effect
- The effect of the amendment proposal on the cost of enforcement/inspection; ☐ Increase ☐ Reduce ☒ No Effect