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: Daniel Krausz Date: 3/29/19

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

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<tr>
<th>Acronym</th>
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<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:**
2018 DBC-IBC Section 403.5.7 Accessible means of egress elevator and area of refuge

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

**Proposal:**

Revise as follows:

[F] Section 403.5.7 Accessible means of egress elevator and area of rescue assistance refuge and subordinate sections are is-added:

[F] 403.5.7 Accessible means of egress elevator and area of rescue assistance refuge. Notwithstanding Section 1009.4.2 Exceptions, an accessible means of egress elevator complying with Section 1009.4 and accessed directly from an area of refuge complying with Section 1009.6 shall be provided in high-rise buildings. Accessible means of egress shall comply with this section. One accessible means of egress is required in buildings subject to the requirements of Section 402 and possessing hoistway pressurization conforming to the provisions of IFCA Section 909.15.2. Where the travel distance from any accessible space to the exceeds the maximum travel distance permitted for the occupancy in accordance with Section 1017.1, additional areas of refuge shall be provided. Where occupant evacuation elevators are provided in accordance with Section 403.6.2, area of shall be located at these elevators.

Exceptions:

1. Areas of refuge are not required at the elevator in open parking garages.

[F] 403.5.7.1 Group A, B, E and M occupancies. In Group A, B, E and M occupancies, an elevator complying with Section 1009.4 and an area of rescue assistance elevator lobby providing direct access to the elevator shall serve as the accessible means of egress. The area of rescue assistance shall be sized in accordance with Section 1009.6.2. Each area of rescue assistance shall be separated from the remainder of the story by a smoke barrier complying with Section 709.

[F] 403.5.7.2 Group R1, R2 and I1 occupancies.
2. In Group R1, R2, and I1 occupancies, an elevator complying with Section 1009.4, with a fire-resistive corridor providing direct access to the elevator from all dwelling units or sleeping units shall be permitted to serve as a only required accessible means of egress. An enclosed elevator lobby is not required.

403.5.7.1 Travel Distance. The maximum travel distance from any accessible space to an accessible means of egress elevator complying with this section shall not exceed the exit access travel distance permitted for the occupancy in accordance with Section 1017.1.

403.5.7.2 Occupant evacuation elevators. Where occupant evacuation elevators are provided in accordance with Section 403.6.2, areas of refuge shall be located at these elevators.

Section 403.5.8 Area of rescue assistance /elevator lobby pressurization is added:

403.5.7.3 Area of rescue assistance/elevator lobby- refuge pressurization. The area of refuge at the accessible means of egress elevator assistance/elevator lobby shall be pressurized by the transfer of air from the pressurized hoist way through the leakage at the elevator doors.

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:

The purpose of this proposal is to reduce confusion from poor code language and to update an older carried-forward amendment to have it be coordinated with current accessible means of egress elevator and associated area of refuge requirements in IBC Section 1009.4 & 1009.6.3.

Amendment Reason:
The need for an area of refuge at the elevator is the same as previously directed by DFD to provide high-rise building occupants requiring egress-assistance a refuge at accessible means of egress elevators where they can communicate with DFD and await DFD evacuation via the elevator.

The content of the amendment remains primarily the same as before with the following exceptions:
Firstly, previous poor language inadvertently allowed for the elevator to be the only accessible means of egress in a high rise. Section 1009 requires at least two accessible means of egress from each story in all buildings and a high-rise should be no less accommodating.
Secondly, the previous amendment requires an area of refuge associated with the elevator in specific occupancies of A, B, E and M. The proposed amendment uses the Section 1009.4 requirement to require an area of refuge associated with the elevator in all occupancies except an open parking garage. In doing so, the requirement applies to additional industrial occupancy types of F, H, and S. However, these occupancies were not included in the previous amendment simply because they’re rare uses for a high-rise building. These are more hazardous occupancies than B and should not be excepted from areas of refuge required in a B high-rise.

Amendment Format:
Section 403.5.7 provides the requirement for an area of refuge associated with an accessible means of egress elevator. This is accomplished by reiterating the requirements from sections 1009.4 and 1009.6.2 and not including the exception for sprinklered buildings in 1009.4. The exception for open parking garages is brought over from 1009.4 and an exception is provided also for R and I-1 corridors, as per the previous amendment.
Section 403.5.7.1 through 403.5.7.3 are made independent sections to better locate requirements from the previous amendment and prevent the exceptions from being applied to these requirements. Travel distance requirement is also found in IBC Section 1009.4 and text is based on the IBC from that section. The content of these sections is substantially the same as was previously included in DBCA Section 403.5.7.

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.

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**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

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**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