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

2018 CODE DEVELOPMENT CYCLE

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   Electrical Plan Review Supervisor
   City and County of Denver
   Date: 4/9/2019

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 or No):

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Code Name</th>
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<th>Code Name</th>
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</thead>
<tbody>
<tr>
<td>IBC</td>
<td>International Building Code</td>
<td>IRE</td>
<td>International Residential Code</td>
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<tr>
<td>IEBC</td>
<td>International Existing Building Code</td>
<td>IMC</td>
<td>International Mechanical Code</td>
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<td>IFC</td>
<td>International Fire Code</td>
<td>NEC</td>
<td>National Electrical 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 2702.2.9/2702.2.11

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

**Proposal:** Delete in its entirety without substitution. Allow the 2018 IBC 2702.2.11 (previously numbered as 2702.2.9 in the 2015 IBC) language to stand as written in the code.

Section 2702.2.9 High-rise buildings is replaced in its entirety with the following:

2702.2.9 High-rise buildings. Emergency power shall be provided in high-rise buildings as required in Sections 403.4.8:

**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 intent of this deletion is to bring the requirement for both the Emergency and Standby systems in high-rise buildings back into alignment with both the 2018 IBC as written and the National Electrical Code. As currently written in the 2016 DBCA 2702.2.9, only Emergency power is required in high-rise buildings, with the additional requirement for Standby power deleted. The 2018 IBC 2702.2.11 as written requires both Emergency and Standby power to be provided in high-rise buildings.

The requirement for Standby power in high-rise buildings is important in order to prevent the installation of larger motors, such as large exhaust fan and elevator motors, from being solely installed on the Emergency power system. The Emergency power system

November 15, 2005
is intended for smaller electrical loads such as the emergency lighting, exit signs, emergency communications systems, and fire alarm and detection systems used to exit people from a building during an emergency or evacuation.

Where larger motors are installed on the Emergency power system, there is the potential that the starting inrush current from these motors could trip the breaker ahead of the Emergency system, disabling power to the emergency lighting, exit signs, and fire alarm and detection systems needed to assist in evacuating people from a building during an emergency. By requiring a Standby system in addition to the Emergency system, it provides the ability to connect the larger motors to the Standby system rather connecting all generator loads to the Emergency power system.

This deletion would allow the language in 2018 IBC 2702.2.11 to remain as originally written without amendment. It also brings the requirements of the National Electrical Code, Articles 700, 701, and 702 into alignment.

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:**

2016 IBC 2702.2.9
2018 IBC 2702.2.11
NEC 700, 701, 702

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

**Impact:**

The above clarification does not propose any cost to construction or design, and is no more nor less restrictive that the I-codes.

Note: The proponent shall indicate one of the following regarding the impact of 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:**

No effect in review cost.
No effect in enforcement/inspection cost.

Note: Indicate one of the following regarding the impact of 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: