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: Charles Bartel Date: 3/11/2019

Click or tap here to enter text.

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>
<th>Acronym</th>
<th>Code Name</th>
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</thead>
<tbody>
<tr>
<td>IBC</td>
<td>International Building Code</td>
<td>IBC</td>
<td>International Residential Code</td>
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<tr>
<td>IEB</td>
<td>International Existing Building Code</td>
<td>IMC</td>
<td>International Mechanical Code</td>
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<tr>
<td>IFC</td>
<td>International Fire 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:**
IMC 607.3.1

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

**Proposal:**

Add new text as follows:

Exception:
When the fans associated with heating, ventilation, and air-conditioning systems are interlocked to shut down during a fire, then ceiling radiation dampers that have not been labeled for use within dynamic systems can be used within the associated systems.

**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:**

**Purpose:**
To provide an alternative to requiring ceiling radiation dampers that are labeled for use in dynamic systems. Ceiling radiation dampers labeled for dynamic use are not readily available, and this amendment will allow the designer flexibility in their design.

**Reasons:**
If the fans are designed to be off during a fire, a static ceiling radiation damper could be installed. However, instead of relying on the listings and installation details from the manufactures for ceiling radiation dampers, section 607.3.1 of the 2018 IMC is now directly addressing dynamic systems and dynamic ceiling radiation dampers. Currently ceiling radiation dampers are installed in dynamic systems in multi-family construction, however there is very limited number of manufactures that have ceiling radiation dampers that are rated for dynamic systems, and Sam Dardano claims there are currently no dynamic ceiling radiation dampers on the market that have been tested dynamically. In the Group A 2021 ICC code hearings FS64-18 was approved, and actually defines the requirements of dynamic systems.

November 15, 2005
and static systems for ceiling radiation dampers. My intent with this code section is to explicitly allow static ceiling radiation dampers as long as the fans are shut down during a fire.

**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:**

Click or tap here to enter text.

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

**Impact:**

Ceiling radiation dampers labeled for use in dynamic systems are not readily available. The amendment will allow the designer an alternative to using ceiling radiation dampers labeled for use in dynamic systems.

**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:**

Reduce the cost of review by providing a clear alternative to using ceiling radiation dampers labeled for use in dynamic systems.

No Effect on cost of inspection.

**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: