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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2) Proposals should be drafted in Word with the only formatting that is needed being BOLDING, STRIKE OUT
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):

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<td>International Building Code</td>
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<td>IFC</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-IRC 313 and IRC P2904

**Proposal:**
Delete Denver amendment and substitute as follows

**SECTION R313**
**AUTOMATIC FIRE SPRINKLER SYSTEMS**

Section R313.1 Townhouse automatic fire sprinkler systems is amended by deleting the section and exception and replacing with the following:

Section R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system is not required in townhouses, however, if an automatic residential fire sprinkler system is installed in townhouses, it shall comply with R313.1.1.

**Exception:**
Any dwelling unit within a townhouse with an area meeting the definition of habitable attic that is located above the third story above grade plane requires the dwelling unit to install an automatic residential fire sprinkler system. The system shall be designed and installed in accordance with Section R313.1.1. Sprinkler system demand shall be satisfied by Denver Water’s site pressures without a fire pump. Alternatively, an NFPA 13R system may be proposed to satisfy the sprinkler requirement.

Section R313.2 One- and Two-family dwellings automatic fire sprinkler systems is amended by deleting the section and exception and replacing with the following:

Section R313.2 One- and Two-family dwellings automatic fire sprinkler systems. An automatic residential fire sprinkler system is not required in one- and two-family dwellings; however, if an automatic residential fire sprinkler system is installed in one- and two-family dwellings, it shall comply with R313.2.1.

**Exception:**
Any one- or two-family dwelling with an area meeting the definition of habitable attic that is located above the third story above grade plane requires the dwelling unit to install an automatic residential fire sprinkler system. The system shall be designed and installed in
accordance with R313.2.1. Sprinkler system demand shall be satisfied by Denver Water’s site pressures without a fire pump. Alternatively, an NFPA 13R system may be proposed to satisfy the sprinkler requirement.

SECTION R313
AUTOMATIC FIRE SPRINKLER SYSTEMS

Section R313 Automatic fire sprinkler systems is replaced in its entirety with the following:

R313.1 Townhouse automatic sprinkler systems. An automatic residential fire sprinkler system shall be installed in townhomes that have a habitable attic located above the third story above grade plane.

R313.2 One- and two-family dwellings automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in one- and two-family dwellings that have a habitable attic located above the third story above grade plane.

R313.3 Design and installation. Where required or provided, automatic residential fire sprinkler systems shall be designed and installed in accordance with NFPA 13D or NFPA 13R. Sprinkler system demand shall be satisfied by Denver Water’s site pressures without a fire pump.

Revise as follows:

SECTION P2904
DWELLING UNIT FIRE SPRINKLER SYSTEMS

P2904.1 General. Residential fire sprinkler systems shall be designed and installed in accordance with IRC Section R313.3 as amended.

Remaining sections of Section P2904 are deleted in entirety.

Supporting Information:

Reason:

1) The current Denver amendment flips the script on code format. The general provisions state what is not required and the exceptions provide what is. This is not appropriate code format and is thus confusing and unnecessary. Section R313 of the IRC simply tells you when fire sprinklers are required. This is all the DBC needs to do in the amendment. The restructuring of this section has kept every provision intact, yet presents it in a clean and concise manner.

2) Both 313.1 and 313.2 reference subsections that allow P2904 sprinkler design. It is understood that Denver does not allow the use of a P2904 sprinkler design whether sprinklers are required or simply desired. The reference to P2904 is removed in this section, but references to it are scattered throughout the code. Rather than amend each section with the references, P2904 is amended to point back to this proposed R313.3. This appeared to be the cleanest way to handle deletion of 2904 systems with the least amendments.

3) Both 313.1 and 313.2, exceptions, state that NFPA 13R may satisfy the sprinkler requirement. This is misplaced. The subsections “Design and Installation” reference what standards they must be designed and installed under. This proposal simply references both NFPA 13D or NFPA 13R as required methods of design and removes P2904 as explained above.

4) “grade plane” is now italicized as it is a defined IRC.

Referenced Standards:

Impact:

The amendment is only editorial and does not impact the cost of construction or design.

Departmental Impact:

There is no effect on the cost of review or inspection.