

**NEW HAMPSHIRE STATE BUILDING CODE
PROPOSED AMENDMENT FORM**

Proposed amendment submitted by:

Name: 2015 IMC Review Sub-committee

Date: September 28, 2015

Company /Organization: State Building Code Review Board

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ME-15-08-15

Applicable code: 2015 IMC (adoption pending) Applicable code section: 606.2

Select only one code: *IEBC-15 IBC-15 IRC-15 IPC-15 IMC-15 IECC-15 IEBC-15 NEC-14 (NFPA 70)*

Current 2015 IMC language (including section numbers):

(8) Amend section 606.2 of the *International Mechanic Code* 2009 by replacing said section with the following [effective date of April 1, 2010, ratified June 18, 2012]:

606.2 Where required. Smoke detectors shall be installed where indicated in Sections 606.2.1 through 606.2.4.

Exception: Smoke detectors shall not be required where air distribution systems are incapable of spreading smoke beyond the enclosing walls, floors and ceilings of the room or space in which the smoke is generated.

606.2.1 Location of smoke detectors. Smoke detectors shall be installed downstream of the air filters and ahead of any branch connections in air supply systems with a design capacity greater than 2,000 cfm (0.9 m³/s).

606.2.2 Return air systems. Smoke detectors shall be installed in return air systems with a design capacity greater than 2,000 cfm (0.9 m³/s), in the return air duct or plenum upstream of any filters, exhaust air connections, outdoor air connections, or decontamination equipment and appliances.

Exception: Smoke detectors are not required in the return air system where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the *International Fire Code*. The area smoke detection system shall comply with Section 606.4.

606.2.3 Common supply and return air systems. Where multiple air-handling systems share common supply or return air ducts or plenums with a combined design capacity greater than 2,000 cfm (0.9 m³/s), the return air system shall be provided with smoke detectors in accordance with Section 606.2.1 and 606.2.2.

Exception: Individual smoke detectors shall not be required for each fan-powered terminal unit, provided that such units do not have an individual design capacity greater than 2,000 cfm (0.9 m³/s) and will be shut down by activation of one of the following:

1. Smoke detectors required by Sections 606.2.1, 606.2.2 and 606.2.4.
2. An approved area smoke detector system located in the return air plenum serving such units.
3. An area smoke detector system as prescribed in the exception to Section 606.2.2. In all cases, the smoke detectors shall comply with Sections 606.4 and 606.4.1.

606.2.4. Return air risers. Where return air risers serve two or more stories and serve any portion of a return air system having a design capacity greater than 15,000 cfm (7.1 m³/s), smoke detectors shall be installed at each story. Such smoke detectors shall be located upstream of the connection between the return air riser and any air ducts or plenums.

Check one: Delete without substitution: Add new section to read as follows:
 Delete section and substitute the following: Revise section to read as follows:
 ~~Show Line through material to be deleted.~~ Underline material to be added.

Proposed code language:

~~{8}~~ Amend section 606.2 of the *International Mechanic Code 2009 2015* by replacing said section with the following to be determined through legislative action ~~{effective date of April 1, 2010, ratified June 18, 2012}~~

606.2 Where required. Smoke detectors shall be installed where indicated in Sections 606.2.1 through 606.2.34.

Exception: Smoke detectors shall not be required where air distribution systems are incapable of spreading smoke beyond the enclosing walls, floors and ceilings of the room or space in which the smoke is generated.

~~**606.2.1 Location of smoke detectors.** Smoke detectors shall be installed downstream of the air filters and ahead of any branch connections in air supply systems with a design capacity greater than 2,000 cfm (0.9 m³/s).~~

606.2.12 Return air systems. Smoke detectors shall be installed in return air systems with a design capacity greater than 2,000 cfm (0.9 m³/s), in the return air duct or plenum upstream of any filters, exhaust air connections, outdoor air connections, or decontamination equipment and appliances.

Exception: Smoke detectors are not required in the return air system where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the *International Fire Code*. The area smoke detection system shall comply with Section 606.4.

~~**606.2.23 Common supply and return air systems.** Where multiple air-handling systems share common supply or return air ducts or plenums with a combined design capacity greater than 2,000 cfm (0.9 m³/s), the return air system shall be provided with smoke detectors in accordance with Section 606.2.1 and 606.2.12.~~

Exception: Individual smoke detectors shall not be required for each fan-powered terminal unit, provided that such units do not have an individual design capacity greater than 2,000 cfm (0.9 m³/s) and will be shut down by activation of one of the following:

1. Smoke detectors required by Sections 606.2.1 and 606.2.32 and ~~606.2.4.~~
2. An approved area smoke detector system located in the return air plenum serving such units.
3. An area smoke detector system as prescribed in the exception to Section 606.2.12.

In all cases, the smoke detectors shall comply with Sections 606.4 and 606.4.1.

606.2.34. Return air risers. Where return air risers serve two or more stories and serve any portion of a return air system having a design capacity greater than 15,000 cfm (7.1 m³/s), smoke detectors shall be installed at each story. Such smoke detectors shall be located upstream of the connection between the return air riser and any air ducts or plenums.

Reason/Justification: To address/reconcile prevailing State of New Hampshire Fire Code versus language in the IMC 2015.

Financial Analysis/Fiscal Impact of proposed amendment: TBD

For Building Code Review Board Use:

Not approved: _____ Approved: XX Approved with modifications: _____

Scheduled Hearing Date: November 13, 2015 Exhibit #: ME-15-08-15

Chair's Signature:  Date: November 13, 2015

Printed Name: Shawn Bergeron, S.