

B5U

David Timberlake, P.E.
Chairman



Mary Fallin
Governor

Oklahoma Uniform Building Code Commission

PUBLIC COMMENT FORM FOR THE ADOPTION OF BUILDING/CONSTRUCTION CODES PROPOSED CHANGE TO THE INTERNATIONAL RESIDENTIAL CODE®

INSTRUCTIONS: Please type or print clearly. Form must be signed. Any form not signed or filled out completely, may not be considered. Each requested change must be on a separate form.

1. Submitters Contact Information:

Name: Todd Booze Date: 8/1/15
 Company: OUBCC Technical Committee
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Ext: _____ Fax: _____
 Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1103.2.2 Table: _____ Figure: _____ Page No: Amended 2015 Code
No project exist

4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows
 Delete with substitute

Show the proposed NEW, REVISED, OR DELETED TEXT in legislative format, (line through text to be deleted and underline text to be added or revised).

Add Text section N1103.2.2 SEALING:
 Ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.4. For Duct systems with sheet metal plenums, Y's and supply boots only liquid applied sealants (Mastic or similar) shall be used to seal inner liners and start collars to plenum and any other seams in system. Duct tightness shall be verified by either of the following:

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

This text is being added to require a liquid sealant of metal connections of the supply and return duct distribution system because it is the only effective and long lasting way to ensure the HVAC system duct leakage can be reduced to acceptable levels to comply with the 2009 IRC Chapter 11. It has been found that duct tapes over time lose their adhesives in the attic space where exposed to high temperatures and are difficult to get wrapped properly with the inner liner of the insulated ducts. Cost impacts are minimal if compared to the proper installation using duct tape products and proper execution is rarely achieved in use of those products and life expectancy of duct tapes is not acceptable.

B-574

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1. Submitters Contact Information:

Name: OUBCC ELECTRICAL TECHNICAL COMMITTEE Date: 09/03/2014
Company: OUBCC
Address: 2401 NW 23RD STREET SUITE 2F
City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1103.5 Table: _____ Figure: _____ Page No: 469 462

4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows Delete with substitute
Show the proposed NEW, REVISED, OR DELETED TEXT in legislative format, (line through text to be deleted and underline text to be added or revised).

N1103.5 Service hot water systems. Retain N1103.5; N1103.5.1; N1103.5.1.1; N1103.5.1.2; N1103.5.2

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

Updated from Oklahoma adopted IRC-2009, the IRC-Electrical Technical Committee unanimously accepts these sections as published in IRC-2015. The ETC determined through formal discussion and action, these sections need to be retained or otherwise accepted as published in the IRC-2015. These sections address electrical controls for equipment and wiring methods that would have a direct effect in energy consumption and savings in the cost of energy. Any additional cost for the installation should be offset by the savings of energy consumption.

5. Signature: [Signature] Commission Liaison for Residential Electrical Technical Committee

Send completed "Public Comment Form" to:
Oklahoma Uniform Building Code Commission, PO Box 12540, Oklahoma City, OK 73157
Email to: Kathy.Hehny@oubcc.ok.gov or Fax to: 405-521-6504

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Chairman
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City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1104 Table: _____ Figure: _____ Page No: 469 463

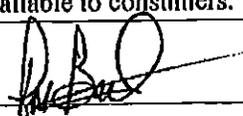
4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows Delete with substitute
Show the proposed **NEW, REVISED, OR DELETED TEXT** in legislative format, (line through text to be deleted and underline text to be added or revised).

N1104.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures luminaires shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures luminaires shall contain only high-efficacy lamps.
Exception: Low-voltage lighting
**Low-voltage lighting exception was added via IRC-2012, as was N1104.1.1. The submitter felt N1104.1.1 would fall under the scope of the FGMP Committee, and was therefore not discussed.*

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

The Residential Electrical Technical Committee discussed and unanimously approved PCF-E11, an exact duplicate of this PFC. The term "lighting fixture" was replaced with "luminaire" in the 2008 NFPA-70® National Electrical Code®, the source of IRC-2015 Chapters 34 through 43, addressed in the introduction to Chapter 34. The ETC discussed the percentage ratio factor, Public Law 110-140—Dec. 19, 2007 US ENERGY INDEPENDENCE AND SECURITY ACT OF 2007, lamp manufacture's product data, and current types and styles of lamps available to the consumer. The ETC concluded that the 75 percent requirement appears to be in alignment with US EISA-2007, the requirements manufacturers are meeting, the numerous energy savings programs electric utilities, and the lamps that are readily available to consumers.

5. Signature:  Commission Liaison for Residential Electrical Technical Committee

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Company: OUBCC
Address: 2401 NW 23RD STREET SUITE 2F
City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: NI107.4 Table: _____ Figure: _____ Page No: 469

4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows Delete with substitute

Show the proposed NEW, REVISED, OR DELETED TEXT in legislative format, (line through text to be deleted and underline text to be added or revised).

N1107.4 Compliance. Retain 1107.4 Compliance

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

Updated from Oklahoma adopted IRC-2009, the IRC-Electrical Technical Committee unanimously accepts this section as published in the IRC-2015. The ETC determined, through formal discussion and action, this section needs to be retained or otherwise accepted as published in the IRC-2015. This section recognizes NFPA 70 National Electrical Code and lists the additional ICC Codes.

5. Signature:  Commission Liaison for Residential Electrical Technical Committee

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Email to: Kathy.Helnly@oubcc.ok.gov or Fax to: 405-521-6504

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Governor

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Company: OUBCC
Address: 2401 NW 23RD STREET SUITE 2F
City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1108.1.1.4 Table: _____ Figure: _____ Page No: 469

4. Please check the appropriate box:

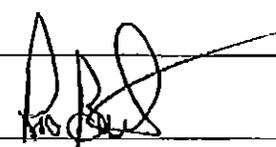
Revise as follows Delete as follows Add new text as follows Delete with substitute

Show the proposed NEW, REVISED, OR DELETED TEXT in legislative format, (line through text to be deleted and underline text to be added or revised).

N1108.1.1.4. Lighting. Retain 1108.1.1.4 Lighting

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

Updated from Oklahoma adopted IRC-2009, the IRC-Electrical Technical Committee unanimously accepts this section as published in the IRC-2015. The ETC determined, through formal discussion and action, this section needs to be retained or otherwise accepted as published in the IRC-2015. This section recognizes IRC-2015 Chapter Eleven, Section N1104.1 Lighting equipment requirements for high-efficacy.

5. Signature:  Commission Liaison for Residential Electrical Technical Committee

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Company: OUBCC
Address: 2401 NW 23RD STREET SUITE 2F
City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1109.1.4 Table: _____ Figure: _____ Page No: 469 470

4. Please check the appropriate box:

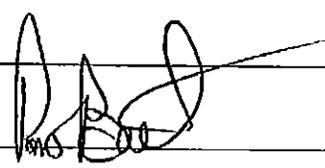
Revise as follows Delete as follows Add new text as follows Delete with substitute

Show the proposed NEW, REVISED, OR DELETED TEXT in legislative format, (line through text to be deleted and underline text to be added or revised).

N1109.1.4. Lighting. Retain 1109.1.4 Lighting

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

Updated from Oklahoma adopted IRC-2009, the IRC-Electrical Technical Committee unanimously accepts this section as published in the IRC-2015. The ETC determined, through formal discussion and action, this section needs to be retained or otherwise accepted as published in the IRC-2015. This section recognizes IRC-2015 Chapter Eleven, Section N1104.1 Lighting equipment requirements for high-efficacy. This section also provides an exception for alterations with replacement luminaires.

5. Signature:  Commission Liaison for Residential Electrical Technical Committee

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Name: OUBCC ELECTRICAL TECHNICAL COMMITTEE Date: 09/03/2014
Company: OUBCC
Address: 2401 NW 23RD STREET SUITE 2F
City: OKLAHOMA CITY State: OK Zip: 73107
Phone: 405.521.6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: N1110.2 Table: _____ Figure: _____ Page No: 469 470

4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows Delete with substitute

Show the proposed **NEW, REVISED, OR DELETED TEXT** in legislative format, (line through text to be deleted and underline text to be added or revised).

N1110.2 Applications. Retain 1110.2 Applications (3).

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

Updated from Oklahoma adopted IRC-2009, the IRC-Electrical Technical Committee unanimously accepts this section as published in the IRC-2015. The ETC determined, through formal discussion and action, this section needs to be retained or otherwise accepted as published in the IRC-2015. This section provides a definition for "repairs" as relating to repairs to luminaires and their energy efficiency addressed in IRC-2015 Chapter Eleven, Section N1104.1

5. Signature:  Commission Liaison for Residential Electrical Technical Committee

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1. **Submitters Contact Information:**

Name: Chris Ramseyer Date: 09/03/2015
Company: OUBCC
Address: 2401 NW 23rd
City: OKC State: OK Zip: 73107
Phone: 405-521-6501 Ext: _____ Fax: _____
Email: _____

2. Do you feel this proposed change will increase the cost of construction? Yes No

3. Which are of the code needs revision?

Section: AV101 Table: _____ Figure: _____ Page No: 888

4. Please check the appropriate box:

Revise as follows Delete as follows Add new text as follows Delete with substitute

Show the proposed **NEW, REVISED, OR DELETED TEXT** in legislative format, (line through text to be deleted and underline text to be added or revised).

Please see attached

Supporting information: State purpose and reason for the change and provide substantiation to support proposed change.

To allow communities in Oklahoma the option of adopting a wind code that addresses Tornados through EF 2 (up to 135 mph) which accounts for 90 to 95% of tornados and up to 80 – 85% of the damage due to an EF5 (Ref: May 20, 2013 NSF report by Graettinger and Ramseyer et al.

5. Signature: _____

Send completed "Public Comment Form" to:
Oklahoma Uniform Building Code Commission, PO Box 12540, Oklahoma City, OK 73157
Email to: Shawnta.Mitchell@oubcc.ok.gov or Fax to: 405-521-6504

APPENDIX F RESIDENTIAL TORNADO PROVISIONS

(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)

SECTION AV101 SCOPE

AF101.1 General. These provisions shall be applicable for new construction where residential tornado provisions are required. This appendix provides prescriptive based requirements for construction of a residential structure meeting or exceeding a 135 mph wind event corresponding to an EF-2 tornado rating. The single most important objective in protecting a structure against high wind is achieving a continuous load path from the roof to the foundation. Based on the findings of this study and the failures associated with various construction types, a group of 11 building practices (each associated with a different aspect of the structure) are summarized in this section.

AF101.2 Application. In addition to the general administration requirements of Chapter 1, the administrative provisions of this chapter shall also apply to the building Planning and construction requirements of Chapters 1 through 10.

AF101.3 Wind design criteria. Modifying R301.2.1 Buildings and portions thereof shall be constructed in accordance with the wind provisions of this code using the ultimate design wind speed 135 mph.

AF101.4 Lumber sheathing. Only OSB or plywood sheathing is permitted. Dimensional lumber sheathing may not be used. Allowable spans and attachment for lumber used as roof or exterior wall sheathing shall conform to the following.

AF101.4.1 16" Framing. For rafter, stud or beam spacing of 16 inches the minimum nominal sheathing panel thickness will be 7/16", the minimum wood Structural panel span rating 24/16, to be nailed with 8d ring shank (0.131" x 2.5") or 10d (0.148" x 3") nails on 4" on center along the edges and 6" on center in the field.

AF101.4.1 24" Framing. For rafter, stud or beam spacing of 24 inches the minimum nominal sheathing panel thickness will be 23/32", the minimum wood Structural panel span rating 24/16, to be nailed with 8d ring shank (0.131" x 2.5") or 10d (0.148" x 3") nails on 4" on center along the edges and 4" on center in the field.

AF101.5 Ceiling joist and rafter connections. In addition to the provisions of chapter 8 ceiling joists and rafters shall be nailed to each other in a manner to achieve a connection that can transfer a 500 lb force in both compression and tension across the connection.

AF101.5 Rafter uplift resistance. Individual rafters shall be attached to supporting wall assemblies by connections capable of resisting uplift forces of 500 lb.

AF101.6 Gable End Walls. Gable end walls will be sheathed per AF101.4 and will have connections to both a) supporting wall assemblies and b) roof framing by connections capable of resisting uplift forces of 500 lb in both compression and tension across the connection.

AF101.7 Exterior Wall Bracing. Only continuous sheathing methods per R602.10.4.2 may be used to brace exterior walls. Frame garage doors using the sheathed portal frame method CS-PF. Lumber sheathing and attachment per AF101.4 Any form of intermittent bracing is not allowed on an exterior wall. Intermittent bracing may only be used for interior braced wall lines.

AF101.8 Multi story construction Nail upper and lower story wall sheathing to common rim board in order to maintain continuity between stories.

AF101.9 Wood floor above crawl space construction Extend structural wood sheathing to lap the sill plate. Nail to sill plate using a 4" on center along the edges. Nail to rim board if present with 8d ring shank (0.131" x 2.5") or 10d (0.148" x 3") nails on 4" on center along both the top and bottom edges of the rim board.

AF101.10 Garage Doors. Garage doors are to be wind rated to 135 mph