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## Introduction

## Feature Articles

### **Emergency Rule Concerning Low-Emissivity Glazing for One- and Two-Family Dwellings and Townhouses**

At the Tuesday, June 10 Quarterly Building Code Council Meeting, the Building Code Council approved an emergency rule to allow glazing with higher SHGC values than the code requires under certain conditions. Where the permit holder judges there to be a safety concern due to concentrated sunlight, the emergency rule provides a path to document the change to a higher SHGC glazing product without penalty. The full text of the emergency is available on the temporary and emergency rule NCDOL website at:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Codes -  
\\_Temporary Rules&user=State Building Codes](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Codes_-_Temporary_Rules&user=State_Building_Codes)

Included in the ruling is a methodology for continued use of the ResCheck program if it is used to demonstrate compliance with the Energy Code. This emergency rule will not be incorporated into the ResCheck program by the Federal Department of Energy; therefore, in cases where this emergency rule is used, the changes must be documented separately from the ResCheck submittal and accompany the submittal. Refer to the text within the emergency rule for full details.

### **Carbon Monoxide Sensor Requirements in Selected Occupancies and Spaces**

At the March 11, 2014 Quarterly Building Code Council Meeting, the Building Code Council approved a proposal to amend the 2012 NC Fire Code, Sections 908.7 and 908.7.1 that will require carbon monoxide alarms in selected occupancies and spaces. Since the meeting minutes have been posted, the proposed rule has been through the Rules Review process and has passed. The amendment is effective as of June 1, 2014. The March 11 BCC Meeting Minutes can be viewed at the following link and the item in focus is Item D-9. Item D-9 begins on page 19 of the meeting minutes:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=BCC -  
\\_Minutes&user=Building Code Council&sub=BCC Meeting](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=BCC_-_Minutes&user=Building_Code_Council&sub=BCC_Meeting)

Please bear in mind that, in the occupancies and spaces listed in the amendment, new installations of HVAC equipment and water heaters will require compliance with this code amendment.

## Other Approved Rules

Please refer to the list of “D-Items” from in the March 2014 Minutes. There were 15 D-Items, and 11 of these were adopted at this quarterly meeting. Assuming they pass through Rule Review Commission, the adopted rules will be placed in the “2012-2015 Approved Cumulative Amendments” pdf document on the NCDOT Engineering website. Please refer to the following link to review the list of D-Items at from the March 2014 Building Code Council Meeting:

[http://www.ncdot.com/OSFM/Engineering\\_and\\_Codes/Documents/BCC\\_Minutes/2014%2003%2011~March%2011,%202014\\_.pdf](http://www.ncdot.com/OSFM/Engineering_and_Codes/Documents/BCC_Minutes/2014%2003%2011~March%2011,%202014_.pdf)

## Department Notes

### Engineering Department

#### New Code Interpretations Posted

Since the last Engineering Newsletter was posted, the following web interpretations have been posted to the interpretations webpage, at the following link:

[http://www.ncdot.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Code\\_Interpretations&user=State\\_Building\\_Codes](http://www.ncdot.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Code_Interpretations&user=State_Building_Codes)

NC Energy Code 101.5.2 - Building Thermal Envelope Requirements for Conditioned versus Unconditioned Space

NC Energy Code 202 - Process Energy Exemption.doc

NC Energy Code 401.2 - Concrete Masonry Unit Cores Filled with Integral Insulation

NC Residential Code 1101.2 - Concrete Masonry Unit Cores Filled with Integral Insulation

NC Fuel Gas Code 404.9 - Copper Tubing Underground.doc

NC Fuel Gas Code 401.4 - Propane Regulator Vent locations.doc

NC Fuel Gas Code 501.2.1 - Propane Regulator Vent locations.doc

#### Training

Please note that registration for the North Carolina Council of Code Official’s (COCO) 10<sup>th</sup> Quadrennial Education Research Conference will be ending soon. The announcement and application are available at the end of this document, under Attachment A.

## Accumulative Supplements

Accumulative code changes and their adoption dates can be found on the DOI website at

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Codes -  
Current and Past&user=State Building Codes](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Codes_-_Current_and_Past&user=State_Building_Codes)

## Code Qualifications Board Department

### Code Enforcement Officials (CEOs) Continuing Education (CE) - 2014/2015

July 1 marks the beginning of the new fiscal year (2014/2015) and a new CE annual renewal cycle. Code Enforcement Officials (CEOs) holding a Limited or Standard Certificate in a single technical trade must earn 6 hours of CE. Multi-trade inspectors must earn 6 hours in each trade. For the approximately 157 CEOs holding five certificates, that is a total of 30 hours! There is no CE required for Probationary Certificates.

In the last weeks of June, staff became aware of several “last minute CE shoppers.” Some CEOs were frantically looking for approved CE courses they could attend before the June 30 renewal deadline. While there are an increasing number of online / distance education courses now available as options for CE, several 2-hour courses may be needed to meet the 6 hours required.

Our education goal for this year is to improve communications among CE sponsors, instructors, jurisdictions and inspectors resulting in greater availability and convenience of course offerings. Hopefully, inspectors will be able to incorporate CE training into their schedules as a matter of routine.

Traditionally, a primary resource for CE has always been through the inspector associations in the popular “Winter Code Series” held across the state. Please watch for their announcements.

If you have ideas or suggestions for improving the CE program, please email, Mike Hejduk, Director, [mike.hejduk@ncdoi.gov](mailto:mike.hejduk@ncdoi.gov), or Natalie Pollard, Education Coordinator, [Natalie.pollard@ncdoi.gov](mailto:Natalie.pollard@ncdoi.gov). We look forward to hearing from you. Staff will consider and evaluate all suggestions and present them to the COQB Education and Research Committee.

## Engineer’s Corner

### Following Proposed Rule Changes in the Building Code Council Meeting Agendas and Meeting Minutes

There is a general process that is followed while reviewing proposed amendments to the building code. This article is to remind people who wish to follow proposed code changes where the rules are posted and where they can look to keep themselves or their company up-to-date. One proposal is followed from its proposal all the way through to its publishing on the NCDOT website. The general procedure is available for review in the NC Administrative Code and Policies book, Chapter 2. The roles of the NC Building Code Council, NC Department of Insurance, City and County Government and Other Agencies are also outlined in this chapter, but this article focuses on the amendment process in Section 202.5.

NC Administrative Code Section 202.5 sets the procedures to be used to propose amendments. The amendments can come directly from the Building Code Council, or from “any person, state agency, or political subdivision of the state.” NC Administrative Code Sections 202.5.1 - 202.5.5 describe the paperwork and timing requirements of a submission, and these are left to the reader to review. Beginning with section 202.5.6, the Building Code Council Meeting Agendas and Minutes reflect the proposed amendment(s). Refer to the following link for the Building Code Council Agendas, Minutes, and Code Change Proposal Form, respectively:

Building Code Council Agendas:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=BCC -  
\\_Agendas&user=Building Code Council&sub=BCC Meeting](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=BCC_-_Agendas&user=Building_Code_Council&sub=BCC_Meeting)

Building Code Council Minutes:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=BCC -  
\\_Minutes&user=Building Code Council&sub=BCC Meeting](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=BCC_-_Minutes&user=Building_Code_Council&sub=BCC_Meeting)

Code Change Proposal Form:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/BCC\\_Documents/CodeChangeForm.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/BCC_Documents/CodeChangeForm.pdf)

This example follows the submission of a proposed rule to the Plumbing Code. When properly submitted (see Code Change Proposal Form above) by “any person, state agency, or political subdivision of the state” or from within the Building Code Council, the proposal will appear as a “B – Item” on the regularly scheduled Building Code Council quarterly agenda. Please refer to the following language from the **June 2012 Agenda** for an example:

***Part B – New Petitions for Rulemaking***

*The following Petitions for Rulemaking have been received since the last Council meeting. The Council will vote either to deny or grant these Petitions. The Council will give no further consideration to Petitions that are denied. Petitions that are granted may proceed through the Rulemaking process. The Council may send any Petition to the appropriate committee. The hearing will take place during or after the September 10, 2012 meeting.*

**Item B - 7 Request by Robert Hall, Loganville, Georgia, to amend the 2012 NC Plumbing Code, Section 605.15. The proposed amendment is as follows:**

**605.15 Copper Tubing**

**605.15.5 Press Connect Joints.** Press connect joints shall be installed in accordance with the manufacturer’s instructions. Press-connect joints shall conform to one of the standards listed in Table 605.5.

Per NC Admin Code Section 202.5.6, the Building Code Council shall either grant or deny the proposed petition for rule-making. Granted items may be referred to committee for review, and denied items will have no further action taken. If granted, NC Admin Code Section 202.5.7, the Building Code Council may hold a public hearing on granted items at the next quarterly scheduled meeting. These granted items are listed as a “C-Item” on the Building Code Council agenda. Please refer to the following language from the **September 2012 Agenda**:

***Part C - Notice of Rule-making Proceedings and Public Hearing***

*The following Petitions for Rule-making have been granted by the Council. Notice of Rulemaking proceedings has been made. The Public Hearing was held September 10, 2012 and the Final Adoption meeting may take place on or after December 10, 2012. The written public comment period expires on October 1, 2012.*

**Item C – 7 Request by Robert Hall, Loganville, Georgia, to amend the 2012 NC Plumbing Code, Section 605.15. The proposed amendment is as follows:**

**605.15 Copper Tubing**

605.15.5 Press Connect Joints. Press connect joints shall be installed in accordance with the manufacturer's instructions. Press-connect joints shall conform to one of the standards listed in Table 605.

Per NC Admin Code Section 202.5.7, the Building Code Council may take final action on granted items at the next quarterly scheduled meeting after the public hearing. If a petition is granted after the public hearing quarterly meeting, the petition will be listed as a "D-Item" on the next scheduled Building Code Council agenda. Refer to the **December 2012 Agenda**:

***Part D – Final Adoption***

The following Petitions for Rule-making have been granted by the Council. Notice of Rulemaking proceedings and Public Hearing has been made. The Public Hearings were held September 10, 2012. The Final Adoption meeting took place on December 10, 2012. The Council will give no further consideration to Petitions that are disapproved. Petitions that are approved will proceed through the Rulemaking process.

**Item D – 7 Request by Robert Hall, Loganville, Georgia, to amend the 2012 NC Plumbing Code, Section 605.15. The proposed amendment is as follows:**

**605.15 Copper Tubing**

**605.15.5 Press Connect Joints.** Press connect joints shall be installed in accordance with the manufacturer's instructions. Press-connect joints shall conform to one of the standards listed in Table 605.5.

If the petition is granted at this meeting, it is forwarded to Rules Review Commission for final review. In order to see what the individual action was at any meeting, a follower needs to look at the minutes of the meeting, which are published approximately one month prior to the next regularly scheduled Building Code Council Meeting. For instance, the action taken on the item followed in this article can be seen in the December 10, 2013 **Minutes**, reprinted excerpt below:

**Item D – 7 Request by Robert Hall, Loganville, Georgia, to amend the 2012 NC Plumbing Code, Section 605.15. The proposed amendment is as follows:**

**605.15 Copper Tubing**

**605.15.5 Press Connect Joints.** Press connect joints shall be installed in accordance with the manufacturer's instructions. Press-connect joints shall conform to one of the standards listed in Table 605.5.

Motion – Al Bass/Second – Ralph Euchner/Granted with modifications.

There were no comments on this item.

Assuming the petition receives final action as a "D-Item", it is sent to Rules Review Committee. Refer to the following website for Rules Review Commission reports: <http://www.ncoah.com/rules/rrc/meetings/index.html>. Although Rules Review Commission meets every month, the results of their review may not be available online until after the results are made available on the NCDOT website. The proposal in this article was published in the List of Approved Permanent Rules February 21, 2013 Meeting on the aforementioned website for Rules Review Commission.

If it passes the Rules Review Commission process, it will be made available for use and published on the NCDOT website, in particular in a document titled “2012-2015 Approved Cumulative Amendments.” This document is available on the following webpage:

[http://www.ncdot.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Codes -  
Current and Past&user=State Building Codes](http://www.ncdot.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Codes_-_Current_and_Past&user=State_Building_Codes)

Scroll down about two-thirds of the page and see the document titled “2012-2015 Approved Cumulative Amendments” and the direct link to it is shown next:

[http://www.ncdot.com/OSFM/Engineering\\_and\\_Codes/Documents/2012\\_NCBuildingCode\\_amendments/2012-2015ApprovedCumulative.pdf](http://www.ncdot.com/OSFM/Engineering_and_Codes/Documents/2012_NCBuildingCode_amendments/2012-2015ApprovedCumulative.pdf)

The approved rule change is published in this “2012-2015 Approved Cumulative Amendments” document, and it appears on the 49<sup>th</sup> page, as reprinted below. Since this is a living document, the page may change over time, but as of this writing this is the location:

2012 NC Plumbing Code

605.15.5 Press Connect Joints. (120611 Item B-7)

**605.15.5 Press Connect Joints.** Press connect joints shall be installed in accordance with the manufacturer’s instructions. Press-connect joints shall conform to one of the standards listed in Table 605.5.

The delayed effective date of this Rule is January 1, 2015.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

The example in this article shows the advancement of a proposed rule-making change from a “B – Item” all the way through to a “D – Item” and subsequent posting in the 2012 – 2015 Approved Cumulative Amendments document. If you have an interest in following any given proposal, we hope this example helps illustrate the general process.

**NORTH CAROLINA COUNCIL OF CODE OFFICIALS  
REGISTRATION FORM  
AUGUST 3-6, 2014  
HILTON WILMINGTON RIVERSIDE - WILMINGTON, NORTH CAROLINA**

**Name** \_\_\_\_\_

**Jurisdiction or Company** \_\_\_\_\_

**Mailing Address** \_\_\_\_\_ **City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Telephone Number** \_\_\_\_\_

**Companion's Name (if attending)** \_\_\_\_\_

**Children's Name(s) and Age(s) (if attending)** \_\_\_\_\_  
\_\_\_\_\_

**Registration fee of \$200.00 paid by July 18 enclosed. (Includes Inspector and Spouse)**

**Additional \$20 per child age 6 years and older, (children 5 and under are free)**

**Late registration fee of \$225.00 paid after July 18 enclosed.\***

**Retiree registration fee of \$100.00 enclosed. (Includes retiree and spouse)**

Are you planning to attend Sunday night Get-Acquainted Party?

No  Yes How many persons attending? \_\_\_\_\_ **(ages 6 and above)**

**Children 5 and under** \_\_\_\_\_

Are you planning to attend Exhibitor Showcase on Monday for lunch?

No  Yes How many persons attending? \_\_\_\_\_ **(ages 6 and above)**

**Children 5 and under** \_\_\_\_\_

Are you planning to attend the Banquet on Tuesday night?

No  Yes How many persons attending? \_\_\_\_\_ **(ages 6 and above)**

**Children 5 and under** \_\_\_\_\_

Are you planning to attend the Companion's Breakfast on Tuesday morning?

No  Yes How many persons attending? \_\_\_\_\_ **(ages 6 and above)**

**Children 5 and under** \_\_\_\_\_

**A Kid's Meal will be available for children 5 years old and under. Please indicate if you prefer a kid's meal for your child/children 5 years old and under.**

**Continuing Education Sessions:**

**NOTE: Please provide your certificate number for the area you select each day and provide your ID number below:**

**Qualification Board ID #:** \_\_\_\_\_

**Monday: August 4, 2014**

**Introduction to the 2015 NC Existing Building Code – 9:45 a.m. – 11:45 a.m.**

**(Please select ONE area for CE credit)–(2 hours) Need your certificate number**

Building: \_\_\_\_\_ Electrical: \_\_\_\_\_ Fire: \_\_\_\_\_ Mechanical: \_\_\_\_\_ Plumbing: \_\_\_\_\_

**Tuesday: August 5, 2014:**

**Law and Administration – 8:00 a.m. – 3:15 p.m.**

**(Please select ONE area for CE credit)–(6 hours) Need your certificate number**

Building: \_\_\_\_\_ Electrical: \_\_\_\_\_ Fire: \_\_\_\_\_ Mechanical: \_\_\_\_\_ Plumbing: \_\_\_\_\_

**8:00 a.m. – 3:15 p.m.**

**Applying the 2015 NC Existing Building Code to Residential Property (CS2907)**

**Applying the 2015 NC Existing Building Code to Commercial Property (CS2908)**

**Applying the 2015 NC Existing Building Code to the Commercial Plan Review (CS2909)**

**(Please select ONE area for CE credit) (6 Hours) Need your certificate number**

Building: \_\_\_\_\_ Fire: \_\_\_\_\_

**8:00 a.m. – 3:15 p.m.**

**Reviewing Plans With Check List & Field Installations for Code Compliance (CS2919)**

**Reviewing Plans With Check List & Field Installations for Code Compliance (CS2920)**

**Appendix E Calculations in the NC Plumbing Code**

**(CS2928)**

Plumbing: \_\_\_\_\_ (6 hours) Need your certificate number

**8:00 a.m. – 3:15 p.m.**

**Solar PV Systems and the 2014 NEC**

Electrical: \_\_\_\_\_ (6 hours) Need your certificate number

**8:00 a.m. – 3:15 a.m.**

**Gas Pipe Sizing – 2014 (CS2916)**

**Flexible Duct & Residential Metal Duct Insulation Installation - 2014 (CS2935)**

**Gas Venting – 2014 ( CS2942)**

Mechanical: \_\_\_\_\_ (6 hours) Need your certificate number

**Wednesday: August 6, 2014:**

**Code Panel - 10:00 a.m. – 12:00 noon**

(CE Credits for Building, Electrical, Fire, Plumbing or Mechanical)

**(Please select ONE area for CE credit) (2 hours) Need your certificate number**

Building: \_\_\_\_\_ Electrical: \_\_\_\_\_ Fire: \_\_\_\_\_ Mechanical: \_\_\_\_\_ Plumbing: \_\_\_\_\_

**Amount Enclosed \$ \_\_\_\_\_ Registration Fee**

**TOTAL**

**\$ \_\_\_\_\_ MAKE CHECKS PAYABLE TO COCO**

**AND MAIL TO: Council of Code Officials  
Attention: Jean Williams  
1202 Mail Service Center  
Raleigh, NC 27699-1202**

**[Jean.williams@ncdoi.gov](mailto:Jean.williams@ncdoi.gov)  
919-661-5880 ext. 260**