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# Introduction

## Feature Articles

### 2014 NC Electrical Code Update

The 2014 NEC with North Carolina Amendments was adopted by the Building code council on 12/15/2015, with a 4/1/2016 effective date. Remember, **effective** date means it **shall** be used on and after that date. Typically this would mean all projects with a permit issue date of April 1<sup>st</sup> and after would use the 2014 NEC with NC Amendments. Contact local permitting office for clarifications on projects already under review prior to the April 1<sup>st</sup> date. See following link for BCC minutes.

BCC December Minutes Link:

[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)

The amendments made by North Carolina to the 2014 NEC may be downloaded at the following link. There are only six pages of amendments. The 2014 NEC can be purchased and these six pages downloaded for free and inserted by the user. **The six pages of NC Amendments DO NOT come from NFPA.**

NEC 2014 NC Amendments link:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/2014%20Edition%20-%20Effective%20April%201%202016.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/2014%20Edition%20-%20Effective%20April%201%202016.pdf)

Places to purchase 2014 NEC:

The 2014 NEC can be purchased directly from NFPA, (NFPA 70: National Electrical Code (NEC), 2014 Edition), at [www.nfpa.org](http://www.nfpa.org), or it is available at the walk-in desk at the OSFM Chapanoke Road office. The price at the desk is \$97. This is not an ICC document, so it is not available on the on-line DOI code sales website.

### Other Codes Update

Reminder: the 2012 NC Rehabilitation Code sunsets on March 1, 2018.

The 2019 NC State Building Codes are currently under development with a **tentative** 1/1/2019 effective date. The adHoc Committees for the various codes are either set up, or close to being set up, and meeting dates are available at the following link:

Ad Hoc Link: (press the “MEETING DATES” button after you open the following link)

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=BCC\\_Ad\\_Hoc\\_Committee\\_Meeting\\_Information&user=Building\\_Code\\_Council&sub=BCC\\_Committees](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=BCC_Ad_Hoc_Committee_Meeting_Information&user=Building_Code_Council&sub=BCC_Committees)

The 2012 NC Codes remain in effect until the 2019 codes have gone through the Ad Hoc and Building Code Council process. Cumulative amendments to the 2012 NC Codes may be downloaded at the following link. Please note we added an interactive table of contents to facilitate easier navigation of the posted document. The table of contents starts on the third page, and the amendments are categorized by their respective code book. You can use your normal keyboard shortcuts, such as “ctrl-home” (top of document), “ctrl-end”(end of document), and “pageup” and “pagedown” to navigate document.

2012-2016 Approved Cumulative Amendments:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/2012\\_NCBuildingCode\\_amendments/2012-2016ApprovedCumulativeTest1Format.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/2012_NCBuildingCode_amendments/2012-2016ApprovedCumulativeTest1Format.pdf)

## Building Code Council Approved Rule Changes

At the September 2015 NC Building Code Council meeting, there were 16 D-Items, and 13 of these were adopted in September. Two of the items were simply moved to the December meeting. Please refer to the following link to review the list of D-Items from the September 2015 Building Code Council Meeting:

### BCC Meeting Minutes

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/BCC\\_Minutes/2015%2009%2015~September%2015,%202015\\_.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/BCC_Minutes/2015%2009%2015~September%2015,%202015_.pdf)

Assuming the BCC-approved D-Items are approved by the Rule Review Commission, the adopted rules will be placed on the NCDOT Engineering website. The compilation of previously approved rules is located in the document "**Accumulative Supplement to the 2012 NC Building Code**". This document is changing somewhat, in that all amendments from 2012 onward are being posted in this single document. As discussed in the Other Codes Update section above, there has been a Table of Contents added to facilitate easier reading and navigation of the document.

### Accumulative Supplement to the 2012 NC Building Code link:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/2012\\_NCBuildingCode\\_amendments/2012-2016ApprovedCumulativeTest1Format.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/2012_NCBuildingCode_amendments/2012-2016ApprovedCumulativeTest1Format.pdf)

The full review of the 13 approved code amendments is left to the reader, but the titles of each item are bulleted below.

- **Item D – 1 Request by Lon McSwain, representing the NC BCC, to amend the 2012 NC Building Code, Volume I, Table 508.4. (Adopted)**
- **Item D – 2 Request by Lon McSwain, representing the NC BCC, to amend the 2012 NC Building Code, Volume I, Section 1007.7. (Adopted)**
- **Item D – 3 Request by Lon McSwain, representing the NC BCC, to amend the 2012 NC Building Code, Sections 712.4 and 1018.1 and Table 1018.1, and the 2012 NC Fire Code Section 1018.1 and Table 1018.1. (Delayed until December meeting)**
- **Item D – 4 Request by Lon McSwain, representing the NC BCC, to amend the 2012 NC Building Code, Section 1109.14. (Adopted)**
- **Item D – 5 Request by Wayne Hamilton, NC Fire Service Code Revision Committee, to amend the 2012 NC Fire Code, Sections 308.1.6.3 & 202. (Adopted)**
- **Item D – 6 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Section R102.7. (Adopted)**
- **Item D – 7 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Table R302.6. (Adopted)**
- **Item D – 8 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Section R308.4 (Adopted)**
- **Item D – 9 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Section R311.4. (Adopted)**

- **Item D-10 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Section R408.2. (Adopted)**
- **Item D-11 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Table R602.10.1. (Adopted)**
- **Item D-12 Request by David Smith, representing the Residential Ad-Hoc Committee, to amend the 2012 NC Residential Code, Section R703.12. (Adopted)**
- **Item D-13 Request by Tim Norris, representing Norris Enterprises, Inc./NCAEC, to amend the 2011 NEC, Section 406.4(D)(4). (Denied)**
- **Item D-14 Request by Tom Brown, Jeff Griffin, Mark Matheny and Reggie Hucks, representing the NC BIA, to amend the 2012 NC Building Code, Section 1008.1.10. (Held until December meeting)**
- **Item D-15 Request by Andrew Herring and Jeff Vernon, representing Mecklenburg County, to amend the 2012 NC Building Code, Section 706.2 & Table 706.4. (Adopted)**
- **Item D-16 Request by Paul Coats, representing the American Wood Council, to amend the 2012 NC Energy Conservation Code, Table 502.2(1). (Adopted)**

## **Qualification Board Update**

### **Minutes**

The minutes of the July 28<sup>th</sup>, 2015 Board Meeting are available at the following link:

Qualifications Board Meeting minutes:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Documents/COQB\\_Minutes/2015%2011%2023~July%2028%202015\\_.pdf](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Documents/COQB_Minutes/2015%2011%2023~July%2028%202015_.pdf)

The minutes of the October 27<sup>th</sup>, 2015 Board Meeting will be available upon Board approval at the January 26<sup>th</sup>, 2016 meeting. Individuals wishing to provide feedback are encouraged to contact Mike Hejduk at [mike.hejduk@ncdoi.gov](mailto:mike.hejduk@ncdoi.gov).

## **Model Code Development – ICC Published Results**

As discussed in previous newsletters, the Model Code that North Carolina uses as the base document for the NC building codes and trade codes (except Electrical) is updated every three years. States, cities and other jurisdictions outside of NC adopt them at various intervals as they see fit. The proposals to the model codes, and the reasons for the proposal and subsequent rebuttals, can be viewed on-line for the more recent code cycles. Older code cycles (pre-2006) are not available on-line, contact ICC to obtain records. In researching the “why” behind a code change, it is sometimes helpful to view the proposer’s back-up data. Even for new code proposals, if nothing changes, many times the discussion reveals technical reasons that may have been not been obvious before. Of course, only the changes made to the model codes are available for review on this website. Changes to the NC code would have to be done by reviewing archived Building Code Council proposed changes.

Model Code proposed changes, history:

<http://www.iccsafe.org/codes-tech-support/codes/code-development/code-development-archives/>

# Department Notes

## Engineering Department

### Personnel Notes

On December 31<sup>st</sup>, 2015, Jean Williams retired from the department as the Administrative Assistant for Deputy Director / NC Inspector Associations. Her knowledge of the inner workings of the Department and the various Inspector Associations contributed greatly to the smooth operation of the department and organizations she worked with.

Rebecca Latham has taken over Jean's duties. She can be reached at 919-661-5880 (x260)

On February 1, 2016, Ron Chilton retired from the department as Chief Electrical Code Consultant. Ron has contributed greatly to the electrical inspection profession, and has been a member and chaired various position with NFPA 70, sharing his knowledge and experience of technical matters with the electrical profession. A replacement for the position is still being sought as of this writing.

### 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:

Code Interpretations link:

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

Building	426 - Code Compliance With Regards To Child Day Care Inspection Forms.doc
	1029.1 - Emergency Escape and Rescue Opening Requirements for Church Classrooms.doc
Energy	No new postings
Existing Building	0705 - Alterations Level 1 – Accessibility Provisions.doc
	0811 - Energy Requirements – Heating Cooling Existing Screened and Enclosed Porches and Decks with Mini Split System.doc
	0908 - Energy Requirements – Heating Cooling Existing Screened and Enclosed Porches and Decks with Mini Split System.doc
	101.4.3 - Energy Requirements – Heating Cooling Existing Screened and Enclosed Porches and Decks with Mini Split System.doc
	1101.1.3 - Energy Requirements – Heating Cooling Existing Screened and Enclosed Porches and Decks with Mini Split System.doc
Residential	0101.2.2 - Outdoor Fireplaces.doc

Fuel Gas            0403.8 - Protective Coating - Corrosion Protection.pdf  
                          0404.7 - Protection of Aboveground Outdoor Fuel Gas Piping.pdf  
                          0407.2 - Piping Support.pdf

Mechanical        No new postings

Plumbing            No New Postings

Fire Prevention    No new postings

In addition to the generic code interpretations, job-specific Formal Interpretations and subsequent Appeals, if any, are being posted on the same webpage as the general interpretations. They are located under the table heading "SPECIFIC ACTIONS". There are several Formal Interpretations posted, including:

Formal Interpretations            No new formal interpretations posted since prior newsletter

Appeals                                151120 Seascape BCC Order.pdf

## Cumulative Supplements

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

Cumulative code changes link:

[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)

You may have to scroll down on the screen that is accessed at the above link to see another link to the "**Accumulative Supplement to the 2012 NC Building Code.**" This document now contains all code amendments that are adopted since 2012. Use the Table of Contents to scan for changes by Code.

Remember, refer to NC Administrative Code section **102.4 Effective date of rules**, and **102.5 Interim use of approved rules** for clarification of effective dates and the process for using approved rules prior to the effective date.

## Qualifications Assurance Section – COQB, HILB & PYRO

### Training Summary

A review of the Standard Course offerings for July 2015 – December 2016 showed nearly 540 student names were submitted on 65 class rosters for F,B,M,E,P (excluding Law and Admin courses). This is an average of about 8.3 students per class. With classes this small, the community colleges have a challenging time justifying offering the classes, and classes may get canceled and rescheduled for a later date. Please note one person could be attending multiple classes, so the number of courses taken does not indicate the number of code enforcement personnel. Of the 58 community colleges in NC, about 22 offer Standard

Courses. These classes are open to the public, and are an excellent chance for anyone associated with the building trade to obtain the same basic training a code official receives.

TRADE	TOTAL CLASSES FY 15-16	TOTAL STUDENTS	CE CREDIT ONLY
BLDG 1	6	75	9
BLDG 2	4	25	3
BLDG 3	5	38	3
ELEC 1	4	46	3
ELEC 2	2	11	0
ELEC 3	7	38	3
FIRE 1	8	73	5
FIRE 2	6	40	1
FIRE 3	6	38	1
MECH 1	2	30	2
MECH 2	3	15	1
MECH 3	4	21	2
PLUMB 1	2	30	3
PLUMB 2	2	12	2
PLUMB 3	4	31	3
<b>TOTALS</b>	<b>65</b>	<b>523</b>	<b>41</b>

(Time period represented is July 2015 – December 2015)

Approximately 8 % of the course attendees were attending in order to receive continuing education credits. These courses are an excellent means to do that.

**Qualifications Board Link:**

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Code\\_Officials\\_Qualification\\_Board\\_USER&user=Code\\_Officials\\_Qualification\\_Board](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Code_Officials_Qualification_Board_USER&user=Code_Officials_Qualification_Board)

**Staff email addresses:**

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## **NC Building Code Training**

The most up-to-date training schedule for all building codes are available at the following link:

[http://www.ncdoi.com/OSFM/Engineering\\_and\\_Codes/Default.aspx?field1=Code Education -  
\\_Student Main&user=Code Education Resources](http://www.ncdoi.com/OSFM/Engineering_and_Codes/Default.aspx?field1=Code_Education_-_Student_Main&user=Code_Education_Resources)

Once the web page is accessed, click the “**FIND A CLASS**” button to refine your search. As discussed in previous newsletters, please consider the use of the Standard Classes if you are a design professional, contractor, or code official, as they are an underutilized offering.

The NC Building Inspectors Association, NC Plumbing Inspectors Association, NC Mechanical Inspectors Association and NC Fire Marshal’s Association have published their winter/spring course offerings for 2016, please refer to their following websites for further information.

<http://www.ncbia.org/>

<http://ncpia.us/>

<http://ncmia.com/>

<http://www.ncfma.com/>

The North Carolina Electrical Inspectors Association (Ellis Cannaday Chapter) has already published their training list, it is available at the following website. Remember, the electrical code did not go to a six-year adoption cycle, there is a 2014 Electrical Code adopted, and training is available for this.

<http://www.nciaei.org/>