

Minutes of the North Carolina Building Code Council
March 15, 2016
Raleigh, NC

All members of the North Carolina Building Code Council were present for the Council Meeting with the exception of Paula Strickland.

The following are summary minutes. The official minutes of this meeting are recorded on CD. Anyone desiring verbatim CDs or excerpts from these CDs should contact the Engineering Division of the NC Department of Insurance for information and reproduction costs. The next scheduled NC Building Code Council meeting will be held **Tuesday, June 14, 2016**. The location will be announced 30 days before the meeting.

Part A – Administrative Items

Item A – 1 Ethics Statement: Inquire upon conflicts of interest or appearance of conflicts of interest that exist within the Council.

There were no actual or potential conflicts of interest noted.

Item A – 2 Approval of minutes of the December 15, 2015 NC Building Code Council Meeting.

A **motion** to accept the December 15th meeting minutes was made, **seconded**, and **approved**.

Item A – 3 Secretary of State Notice of Reappointment of Mr. Steve Knight and Mr. Robbie Davis.

Mr. Steve Knight and Mr. Robbie Davis have been reappointed to the NC Building Code Council.

Mr. Wayne Hamilton and Mr. Keith Rogers have been appointed to the NC Building Code Council.

Item A – 4 (a) The Council will discuss the prohibition in NCGS 143-136(c) on the full Council considering any proposed revision or amendment to the NC State Building Code Council: Residential Code for One- and Two-Family Dwellings that has not been approved by the newly created Residential Code Committee.

(b) The Council will discuss the prohibition in NCGS 143-136(d) on the full Council considering any proposed revision or amendment to the NC State Building Code that has not been approved by the newly created Building Code Committee.

(c) Pursuant to NCGS 143-136(d), the chairman of the Building Code Council shall call the first meeting of the Building Code Committee. The Building Code Committee will then hold a meeting to elect its chairman.

Leah Barrett nominated Steve Knight to Chair the Building ‘Super’ Committee. **Motion** – Cindy Register/**Second/Approved**.

Item A – 5 Rules Review Commission Meeting Report

Barry Gupton reported that the D-Items from the December 15, 2015 BCC meeting were approved by the Rules Review Commission.

Item A – 6 Public Comments

Terrance Friedman presented the initial report on the Flood Elevation & Building Height Study to the Council. Written public comments were included in the Council package and the following gave public comment on the Flood Elevation issue:

Duke Geraghty, Outer Banks Builder; Robert Privott with NCHBA; Tim Evans, Planning Director for the Town of Holden Beach; Mark Matheny with NCBA; Bryan Holland with NEMA; Dennis Bordeaux with New Hanover County; Doug Maples, City of Fayetteville.

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 June 2016 meeting.

Item B – 1 Request by Ed Johnson & Tommy Faulkner, representing Campus Safety Products, LLC, to amend the 2012 NC Fire Code, Section 1008. The proposed amendment is as follows:

1008.1.11 Emergency lockdown safety mechanisms. *Approved* emergency lockdown safety mechanisms shall be permitted in schools, government, and non-government office environments for the purposes of establishing a secured area in accordance with lockdown plans in Section 404.3.3 and Items 1-8 below:

1. The emergency lockdown safety mechanism shall be readily distinguishable as engaged or disengaged.
2. Clearly identifiable operating procedures shall be posted on or within close proximity of the installed mechanism.
3. The emergency lockdown safety mechanism shall be readily engaged from the egress side without the use of a key or special knowledge or effort.
4. The emergency lockdown safety mechanism shall have a built-in mechanical feature to prevent unintended engagement.
5. The emergency lockdown safety mechanism shall have the capability to operate on outward swinging doors, inward swinging doors, and free-swinging doors.
6. The emergency lockdown safety mechanism shall be readily disengaged from the ingress side with proper tools and instruction.
7. The mechanism shall be installed 6 inches (152 mm) minimum and 48 inches (1219 mm) maximum above the finished floor. However, the maximum installed height shall be limited such that the emergency lockdown safety mechanism is at least 30 inches (762 mm) from any glass openings within the door.

A building occupant shall not be required to pass through more than one door equipped with an emergency lockdown safety mechanism before entering an exit.

Motion – Daniel Priest/**Second** – Frankie Meads/**Granted**. The motion was granted and sent to the Fire Committee for review.

Item B – 2 Request by Leon Skinner, representing the NC Existing Building Code Ad Hoc Committee, to amend the 2015 NC Existing Building Code, Section 1401. The proposed amendment is as follows:

1401.2.6 Occupant load increase. Where the existing occupant load is increased by more than 20 percent or in Group A occupancies, where the occupant load is greater than 300, compliance with Chapter 14 is not permitted. Compliance with other methods in this code shall be permitted.

Motion – David Smith/Second – Tim Fowler/Granted. The motion was granted and sent to Committee for review.

Item B – 3 Request by Leon Skinner, representing the NC Existing Building Code Ad Hoc Committee, to amend the 2015 NC Existing Building Code, Section 609. The proposed amendment is as follows:

ADD SECTION

609.4 Water Supply System Test. Existing water supply systems that are repaired or replaced shall be allowed to be tested and proved tight under a water pressure of normal operating pressure of the existing water supply system. The pressure shall be held at least 15 minutes.

Motion/Second/Granted. The motion was granted and sent to Committee for review.

Item B – 4 Request by Leon Skinner, representing the City of Raleigh Building & Safety Services, to amend the 2012 NC Plumbing Code, Table 605.3. The proposed amendment is as follows:

**TABLE 605.3
WATER SERVICE PIPE**

MATERIAL	STANDARD
Acrylonitrile butadiene styrene (ABS) plastic pipe	ASTMD 1527; ASTMD 2282
Asbestos-cement pipe	ASTM C 296
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTMD 2846; ASTM F 441; ASTM F 442; CSA B137.6
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK, L, WL)	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B 447
Cross-linked polyethylene (PEX) plastic tubing	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F 1986
Ductile iron water pipe	AWWA C151; AWWA C115
Galvanized steel pipe	ASTM A 53
Polyethylene (PE) plastic pipe	ASTMD 2239; ASTMD 3035; CSA B137.1
Polyethylene (PE) plastic tubing	ASTMD 2737; CSA B137.1
Polyethylene/aluminum/polyethylene (PE-AL-PE) pipe	ASTM F 1282; CAN/CSA B137.9
Polypropylene (PP) plastic pipe or tubing	ASTM F 2389; CSA B137.11
Polyvinyl chloride (PVC) plastic pipe	ASTMD 1785; ASTMD 2241; ASTMD 2672; CSA B137.3
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778
<u>Polyvinyl Chloride (PVC) Pressure Pipe</u>	<u>AWWA C-900/NSF-61</u>

Motion/Second/Granted. The motion was granted and sent to Committee for review.

Part C – Notice of Rulemaking Proceedings and Public Hearing

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings has been made. The Public Hearing was held March 15, 2016 and the Final Adoption meeting may take place on or after June 14, 2016. The written public comment period expires on April 15, 2016.

Item C – 1 Request by Darrell Johnson, representing himself, to amend the 2012 NC Plumbing Code, Section 416.5. The proposed amendment is as follows:

416.5. Tempered water for public hand-washing facilities. Deleted. When hot water is provided to a public hand-washing facility, such water shall be tempered water delivered through an approved water-temperature limiting device that conforms to ASSE 1070 or CSA B125.3.

There were no comments on this item.

Item C – 2 Request by Rick Baxley, P.E., representing Brick Industry Association (BIA), to amend the 2012 NC Residential Code, Section R703.7.4.2. The proposed amendment is as follows:

R703.7.4.2 Air space. The veneer shall be separated from the sheathing by an air space of a minimum of a nominal 1 inch (25 mm) but not more than 4 ½ inches (114 mm). An air space that provides drainage and contains mortar from construction shall be permitted.

Robert Privott, representing NCHBA, recommends the Council adopt this code change.

Bryan Light, representing the Brick Industry Association, recommends the Council adopt this code change.

Item C – 3 Request by Bryan D. Robinson/Leon Skinner, representing the City of Raleigh Development Services, to amend the 2012 NC Building Code, Section 1109.2.1. The proposed amendment is as follows:

1109.2.1 Family or assisted-use toilet and bathing rooms. In assembly and mercantile occupancies, an *accessible* family or assisted-use toilet room shall be provided where an aggregate of six or more female water closets is required. In buildings of mixed occupancy, only those water closets required for the assembly or mercantile occupancy shall be used to determine the family or assisted-use toilet room requirement. In recreational facilities where separate-sex bathing rooms are provided, an *accessible* family or assisted-use bathing room shall be provided. Fixtures located within family or assisted-use toilet and bathing rooms shall be included in determining the number of fixtures provided in an occupancy.

- Exception:**
1. Where each separate-sex bathing room has only one shower or bathtub fixture, a family or assisted-use bathing room is not required.
 2. In an Assembly occupancy that meets the definition of a nightclub in 902.1, the family or assisted-use toilet room is not required.

There were no comments on this item.

Item C – 4 Request by Bill Collins, representing Baker Residential, to amend the 2012 NC Residential Code, Section R905.10. The proposed amendment is as follows:

R905.10 Metal roof panels. The installation of metal roof panels shall comply with the provisions of this section. Ridge/Hip Flashing and sealant shall be installed per the manufacturer's instructions.

A request was made by David Smith to keep this a C-Item at the June meeting.

Item C – 5 Request by Clint Latham, representing the NC Plumbing Inspector's Association, to amend the 2012 NC Plumbing Code, Section 202. The proposed amendment is as follows:

~~**INDIRECT WASTE RECEPTOR.** A plumbing fixture designed to collect and dispose of liquid waste from other plumbing fixtures, plumbing equipment or appliances that are required to discharge to the drainage system through an air gap. The following types of fixtures fall within the classification of indirect liquid waste receptors: floor sinks, mop receptors, service sinks and standpipe drains with integral air gaps.~~

WASTE RECEPTOR. A floor sink, standpipe, hub drain or a floor drain that receives the discharge of one or more indirect waste pipes.

There were no comments on this item.

Item C – 6 Request by Clint Latham, representing the NC Plumbing Inspector’s Association, to amend the 2012 NC Plumbing Code, Section 802.3. The proposed amendment is as follows:

802.3 Waste receptors. ~~Every waste receptor shall be of an approved type. A removable strainer or basket shall cover the waste outlet of waste receptors. Waste receptors shall be installed in ventilated spaces. Waste receptors shall not be installed in bathrooms or toilet rooms or in any inaccessible or unventilated space such as a closet or storeroom. Ready access shall be provided to waste receptors. For other than hub drains that receive only clear-water waste and standpipes, a removable strainer or basket shall cover the waste outlet of waste receptors. Waste receptors shall not be installed in concealed spaces. Waste receptors shall not be installed in plenums, crawl spaces, attics, interstitial spaces above ceilings and below floors. Ready access shall be provided to waste receptors.~~

There were no comments on this item.

Item C – 7 Request by Clint Latham, representing the NC Plumbing Inspector’s Association, to amend the 2012 NC Plumbing Code, Section 802.3.2. The proposed amendment is as follows:

802.3.2 ~~Open hub waste receptors.~~ Hub drains. A hub drain ~~Waste receptors shall be permitted in the form of a hub or pipe extending not less than 1 inch (25.4 mm) above a water-impervious floor and are not required to have a strainer.~~

There were no comments on this item.

Item C – 8 Request by Tim Fowler, NC Building Code Council, to amend the 2015 NEC, Section 338.10 (B)(4)(a). The proposed amendment is as follows:

Remove existing code language:

(4) Installation Methods for Branch Circuits and Feeders.

(a) *Interior Installations.* ~~In addition to the provisions of this article, Type SE service entrance cable used for interior wiring shall comply with the installation requirements of Part II of Article 334, excluding 334.80.~~

~~Where installed in thermal insulation the ampacity shall be in accordance with the 60°C (140°F) conductor temperature rating. The maximum conductor temperature rating shall be permitted to be used for ampacity adjustment and correction purposes, if the final derated ampacity does not exceed that for a 60°C (140°F) rated conductor.~~

Add new code language:

(4) Installation Methods for Branch Circuits and Feeders.

(a) *Interior Installations.* In addition to the provisions of this article, Type SE service entrance cable used for interior wiring shall comply with the installation requirements of Part II of Article 334, excluding 334.80.

For Type SE cable with ungrounded conductor sizes 10 AWG and smaller,

where installed in thermal insulation, the ampacity shall be in accordance with 60°C (140°F) conductor temperature rating.

Ron Chilton, retired, does not recommend that the Council adopt this code change.

Terry Cromer, NEC, recommends that the Council adopt this code change.

Bryan Holland, NEMA, recommends that the Council adopt this code change.

Item C – 9 Request by Leah Barrett, NC Building Code Council, to amend the 2015 NEC, Section 210 (B)(4)(a). The proposed amendment is as follows:

210.12 (B)

- (2) A listed outlet branch-circuit type AFCI located at the first receptacle outlet of the existing branch circuit.

Exception: AFCI protection shall not be required where the extension of the existing conductors is not more than ~~1.8 m (6 ft)~~ 15.24 m (50 ft) and does not include any additional outlets or devices.

There were no comments on this item.

Part D – Final Adoption

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings and Public Hearing has been made. The Public Hearings were held December 15, 2015. The Final Adoption meeting took place on March 15, 2016. The Council will give no further consideration to Petitions that are disapproved. Petitions that are approved will proceed through the Rulemaking process.

Item D – 1 Request by Leon Skinner, representing the NC Existing Building Code Ad Hoc Committee, to amend the 2015 NC Existing Building Code, Section 101. The proposed amendment is as follows:

101.11. Accessibility for detached one- and two-family dwellings and townhouses.
In detached one- and two-family dwellings and townhouses, where there are four or more dwelling units or sleeping units in a single structure, the provisions for accessibility of this code for Group R-3 shall apply.

Motion/Second/Adopted.

Item D – 2 Request by Leon Skinner, representing the NC Existing Building Code Ad Hoc Committee, to amend the 2015 NC Existing Building Code, Section 407. The proposed amendment is as follows:

[B] 407.1 Conformance.

No change shall be made in the use or occupancy of any building that would place the building in a different division of the same group of occupancy or in a different group of occupancies, unless such building is made to comply with the requirements of the *International Building Code* for such division or group of occupancy. Subject to the approval of the building official, the use or occupancy of *existing buildings* shall be permitted to be changed and the building is allowed to be occupied for purposes in other groups without conforming to all of the requirements of this code for those groups, provided the new or proposed use is ~~of equal or lesser hazard~~ less hazardous, based on ~~Table 407.1~~ life and fire risk, than the existing use.

**Table 407.1
Relative Occupancy Hazard**

Life and Fire Risk Hazard	Occupancy Category
1 (highest)	H-1, H-2, H-3
2	A-1, A-2 (w/ nightclub), H-4, F-1, I-3, M, S-1
3	A-2 (w/o nightclub), A-3, A-5, B, F-2, I-2, R-1, S-2
4	A-4, E, I-1, R-2 greater than two stories in height or greater than 4 dwelling units
5 (lowest)	R-2 two stories or less in height and four dwelling units or less, R-3, R-4, U, One and Two Family Dwellings.

Motion/Second/Adopted.

Item D – 3 Request by Barry Gupton, Staff, to advertise the modified amendment to the 2014 NC Electrical Code, Article 300.9. The Rules Review Commission objected to the June 9, 2015 adoption for “failure to comply with the APA.” The proposed amendment is as follows:

300.9 Raceways in Wet Locations Above Grade. Where raceways are in wet locations above grade, the interior of these raceways shall be considered to be a wet location. Insulated conductors and cables installed in raceway in wet locations above grade shall comply with 310.10(C).

Exception: The raceway shall not be considered a wet location if:

- (1) The section of raceway routed in a wet location above grade does not exceed 1500 mm (5 ft) in length;
- (2) Any fittings or conduit bodies are watertight and listed for use in wet locations; and
- (3) Raceway is open at its termination point in a dry location.

Motion – Robbie Davis/Second/Adopted.

Item D – 4 Request by Al Bass, Building Code Council, to amend the 2012 NC Plumbing Code for condensate drains. The proposed amendment is as follows:

307.2.1.1 Condensing furnaces and boilers. Where condensate drains from condensing furnaces or boilers are installed in locations subject to freezing, the condensate drain lines in attics shall be freeze protected in accordance with the manufacturer’s recommendations

701.7 Connections. Direct connection of a condensate drain, a steam exhaust blow-off or drip pipe shall not be made with the building drainage system.

715.6 Crawl Spaces. All hub drains or floor drains installed in crawl spaces shall be protected from backflow into the building by a check valve or back-water valve installed in the lateral serving the said hub drain or floor drain.

802.1.5 Non-potable clear-water waste. Where devices and equipment such as process tanks, filters, condensate drains, drips and boilers discharge non-potable water to the building drainage system, the discharge shall be through an indirect waste pipe by means of an air break or air gap.

Motion – Wade White/Second – Keith Rogers/Adopted.

Part E – Reports

Chairman’s Report

-Dan Tingen discussed online codes and the costs, capabilities and options.

Ad Hoc Committee Reports

-Ralph Euchner reported that the Energy Code and Fuel Gas Code committees are on-going. Mr. Euchner made a **motion** to have a document of code changes to look at before the 2018 code gets printed. The motion was **seconded** by Steve Knight and the motion **passed**.

Standing Committee Reports

There were none.

Staff Reports

-Barry Gupton introduced Sharon Konopka as the new BCC Administrative Assistant and Joe Starling as the new Electrical Interpretations Engineer.

Public Comments

Doug Maples, City of Fayetteville, had a request for guidance on OSHA confined space inspections.

Robert Privott, NCHBA, stated that OSHA has given guidance for confined space.

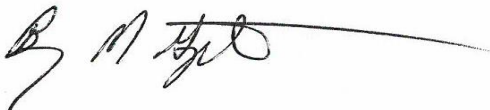
Bryan Holland, NEMA – 2014 NEC/2012-2018 Residential Code question.

Mark Matheny, NC BIA – Super Committee timing question.

Part F – Appeals

The Council entered into closed session to finalize the Orders for appeals.

Sincerely,



Barry Gupton, P.E.
Secretary, NC Building Code Council