



# North Carolina Building Code Council

Staffed by the NC Department of Insurance

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325 N. Salisbury Street  
Raleigh, NC 27603

## Building Code Council

### Chair:

Bridget Herring - 23  
(Public Representative)

### Vice Chairman:

Mark Matheny - 27  
(Building Inspector)

### Members:

Michael Ali, PE - 23  
(State Agency)

Robert Axford - 25  
(Electrical Contractor)

Chris Berg, PE - 27  
(Structural Engineer)

Andrew C. Cole, AIA - 28  
(Architect)

Gary Embler - 23  
(Home Builder)

Ralph Euchner - 25  
(Gas Industry)

David Gieser, RA - 28  
(Architect)

Jeff Hilton - 28  
(Coastal Contractor)

Natalie MacDonald, PE - 27  
(Mechanical Engineer)

Gloria Shealey - 27  
(General Contractor)

Deborah Shearin - 25  
(Plumbing & Heating Contractor)

Jason B. Shepherd - 27  
(Fire Services)

Victoria Watlington, PE - 28  
(Municipal Government Rep)

Kim Wooten, PE - 15  
(Electrical Engineer)

Robert Zapple - 28  
(County Gov't Rep)

## Pending BCC Approval

### Minutes of the North Carolina Building Code Council September 13, 2022 Raleigh, NC

The following are summary minutes. The official minutes of this meeting are recorded. Anyone desiring digital copies of this recording should contact the Engineering Division of the NC Department of Insurance for information and reproduction costs or access the following OSFM website:

<https://www.ncosfm.gov/codes/building-code-council-bcc/bcc-meeting-recordings>. The next scheduled NC Building Code Council meeting will be held **Tuesday, December 13, 2022** at 325 Salisbury Street, Raleigh, NC.

Facebook Live was provided for the purpose of allowing the public to view and hear the meeting in process. However, due to a technical issue the audio was not audible.

Meeting called to order.

A roll call of Council members was completed. All members of the North Carolina Building Code Council were present for the Council meeting except Ralph Euchner, Victoria Watlington, and Kim Wooten. The following members attended virtually: Mark Matheny, Gloria Shealey, and Jason Shepherd.

### 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.

**PENDING BCC APPROVAL**

**Item A – 2 Swearing-in of new and reappointed Council members**

Andrew C. Cole (Architect)  
David A. Gieser (Architect)  
Jeffery Hilton (Coastal Contractor)  
Rob Zapple (County Government Representative – reappointed)

**Item A – 3 Election of new Vice Chair**

**D. Gieser made a motion to nominate Mark Matheny as the new Vice Chair. Second made by M. Ali.**

**Motion passed.** There were no other nominations.

**Item A – 4 Approval of minutes of the June 14, 2022 NC Building Code Council meeting.**

**R. Zapple made a motion to approve the minutes. Second made by C. Berg. Motion passed.**

**Item A – 5 Approval of 2023 Building Code Council meeting dates**

<b>Committee Date (Monday 1 PM)</b>	<b>BCC Meeting (Tuesday 9 AM)</b>	<b>Appeal Date (Wednesday 10 AM)</b>	<b>Appeal</b>
		1/25/2023	
3/13/2023	3/14/2023		
		4/26/2023	
6/12/2023	6/13/2023		
		7/26/2023	
9/11/2023	9/12/2023		
		10/25/2023	
12/11/2023	12/12/2023		

**R. Zapple made a motion to approve the proposed meeting dates for 2023. Second made by D. Shearin. Motion passed.**

**Item A – 6 Request from the Town of Kernersville for approval to perform local plan review.**

Carl Martin addressed the Council regarding this item giving his recommendation to approve this request.

**PENDING BCC APPROVAL**

**C. Berg made a motion to approve this request. Second made by D. Gieser. Motion passed.**

**Item A – 7 Rules Review Commission Meeting Report**

**David Rittlinger reported item D-1 of the June 13, 2022 meeting that went to the Rules Review Commission concerning oil separator requirements for elevator sump pumps passed unanimously. The amendment will be effective January 1, 2023.**

**Item A – 8 Public Comments**

There were no comments.

**Part B – New Petition 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 December 13, 2022 meeting.

**Item B – 1 Request by Carl Martin representing NC Department of Insurance to amend the 2018 NC Plumbing Code, Table 403.1 and 202 and the 2018 NC Building Code, Table 2902.1 and 202 as follows:**

**NC PLUMBING CODE:  
TABLE 403.1 - MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES**

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 419.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410)	OTHER
				MALE	FEMALE	MALE	FEMALE			
1	Assembly (See Sections 403.2, 403.3 and 403.3.3.2)	A-3	Places of worship and other religious services. <u>Including churches</u> <del>Churches</del> without assembly halls <sup>e</sup>	1 per 150	1 per 75	1 per 200		-	1 per 1,000	1 service sink

e. The number of fixtures provided shall be based on either the capacity of the church sanctuary or the church educational building (including fellowship halls and multiple purpose rooms), whichever is larger and within 300 feet (91.44 m). Remote buildings applying this footnote shall be a maximum of 300 feet (91.44 m) exterior travel distance to the nearest entrance of the building containing required plumbing fixtures and the total plumbing fixture access travel distance shall

**PENDING BCC APPROVAL**

comply with Section 403.3.3. The path of travel between buildings is not required to be enclosed or covered when applying this footnote.

*(The remainder of Table 403.1 remains unchanged by this proposed amendment.)*

**Section 202 – General Definitions**

**Travel distance, plumbing fixture access.** Travel distance shall be measured from the most remote point of each room, area or space along the natural, unobstructed and accessible path of horizontal and vertical travel to the entrance to the nearest toilet room containing plumbing fixtures required to serve the room, area or space.

**NC BUILDING CODE:**

**[P] TABLE 2902.1**

**MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES**

NO.	CLASSIFICATION	OCCUPANCY	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 419.2 OF THE INTERNATIONAL PLUMBING CODE)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410 OF THE INTERNATIONAL PLUMBING CODE)	OTHER
				MALE	FEMALE	MALE	FEMALE			
1	Assembly (See Sections 403.2, 403.3 and 403.3.3.2)	A-3	Places of worship and other religious services. <u>Including churches</u> <del>Churches</del> without assembly halls <sup>e</sup>	1 per 150	1 per 75	1 per 200		-	1 per 1,000	1 service sink

e. The number of fixtures provided shall be based on either the capacity of the church sanctuary or the church educational building (including fellowship halls and multiple purpose rooms), whichever is larger ~~and within 300 feet (91.44 m)~~. Remote buildings applying this footnote shall be a maximum of 300 feet (91.44 m) exterior travel distance to the nearest entrance of the building containing required plumbing fixtures and the total plumbing fixture access travel distance shall comply with Section 2902.3.2. The path of travel between buildings is not required to be enclosed or covered when applying this footnote.

*(The remainder of Table 2902.1 remains unchanged by this proposed amendment.)*

**Section 202 – Definitions**

**Travel distance, plumbing fixture access.** Travel distance shall be measured from the most remote point of each room, area or space along the natural, unobstructed and accessible path of horizontal and vertical travel to the entrance to the nearest toilet room containing plumbing fixtures required to serve the room, area or space.

Carl Martin spoke on this item.

**PENDING BCC APPROVAL**

Natalie MacDonald, of the Standing Mechanical Committee, stated this has the support of the committee to be brought before the full Council for a vote.

**Commercial Super Committee: Motion to accept made by C. Berg. Second made by N. MacDonald.  
Motion passed.**

**Building Code Council: Motion to accept made by D. Gieser. Second made by R. Zapple.  
Motion passed.**

**Item B – 2 Request by Carl Martin representing NC Department of Insurance to amend the 2018 NC Building Code, Table 1004.1.2 as follows:**

**TABLE 1004.1.2  
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT<sup>e</sup>**

Skating rinks, swimming pools, recreational courts	
Rink, pool, and recreational court	50 gross
Decks	15 gross <sup>d</sup>

For SI: 1 square foot = 0.0929 m<sup>2</sup>, 1 foot = 304.8 mm.

- a. Floor area in square feet per occupant.
- b. An assembly occupancy conference room that is accessory to a Group B office occupancy and meeting the requirements of Section 303.1, exception 2, shall be calculated at 100 square feet per occupant for determining the overall occupant load of the associated floor. The assembly occupancy shall be calculated at 15 square feet per occupant for the purpose of determining egress from the room containing the assembly occupancy.
- c. For mixed uses sum all loads before rounding up to the next whole number.
- d. Occupant circulation area required by NCAC 18A.2522 around the edge of a swimming pool shall not be included in the deck gross floor area.

*(The remainder of Table 1004.1.2 remains unchanged by this proposed amendment.)*

Carl Martin spoke on this item.

The Fire and Building Joint Committee recommends approval with the corresponding Table in the Fire code amended in the same fashion.

**Commercial Super Committee: Motion to accept with the condition that the corresponding table in the fire code be amended equally made by D. Gieser. Second made by N. MacDonald.  
Motion passed.**

## PENDING BCC APPROVAL

**Building Code Council: Motion to accept as amended made by M. Ali. Second made by R. Zapple.**

**Motion passed.**

**Item B – 3 Request by Wanda Edwards of Wanda Edwards Consulting, Inc. representing Rheia to amend the 2018 NC Residential Code, Sections R202, N1103.3.1, N1106.2 as follows:**

**N1103.3.1 (R403.3.1) Insulation (Mandatory).** Supply and return ducts in unconditioned space and outdoors shall be insulated to a minimum R-8. ~~Supply ducts inside semi-conditioned space shall be insulated to a minimum R-4; return ducts inside conditioned and semi-conditioned space are not required to be insulated. Ducts located inside conditioned space are not required to be insulated other than as may be necessary for preventing the formation of condensation on the exterior of cooling ducts.~~

**Exception:**

Ducts or portions thereof located completely inside the building thermal envelope.

**N1106.2 (R406.2) Mandatory requirements.** Compliance with this section requires that the provisions identified in Sections N1101.14 through N1104 labeled as “mandatory” be met. The building thermal envelope shall be greater than or equal to levels of efficiency and Solar Heat Gain Coefficient in Table 402.1.1 or Table 402.1.3 of the 2012 *North Carolina Energy Conservation Code*. Minimum standards associated with compliance shall be the ANSI/RESNET/ICC 301—2014 *Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using an Energy Rating Index*. A North Carolina registered design professional or certified *HERS* rater is required to perform the analysis if required by North Carolina licensure laws.

**Exception:** Supply and return ducts in unconditioned space and outdoors shall be insulated to a minimum R-8. ~~Supply ducts inside a semi-conditioned space shall be insulated to a minimum R-4; return~~ Return ducts inside conditioned and ~~semieconditioned~~ spaces are not required to be insulated. ~~Ducts located inside a conditioned space are not required to be insulated other than as may be necessary for preventing the formation of condensation on the exterior of cooling ducts.~~

Delete the definition of semi-conditioned space in its entirety as follows:

**~~SEMI-CONDITIONED SPACE.~~** ~~A space within the building thermal envelope that is not directly heated and/or cooled.~~

## PENDING BCC APPROVAL

Wanda Edwards spoke to the Council on this item.

The Energy Standing Committee discussed this item at their meeting, and it does not come to the Council with their support. The committee recommends denying this item.

**Residential Super Committee: Motion to deny made by C. Berg based on this item being addressed in the 2024 code and concerns about condensation. Second made by N. MacDonald.  
Motion passed.**

**No further action was taken by the Building Code Council.**

### **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 on September 13, 2022, and the Final Adoption meeting may take place on or after December 13, 2022. The written public comment period expires on October 14, 2022.

**Item C – 1 Request by Charlie Johnson representing NCDOT/OSFM to amend the 2018 NC Fire Code, Section D107.1 as follows (220614 Item B-1):**

**D107.1 One- or two-family dwelling residential developments.**

Developments of one- or two-family dwellings where the number of *dwelling units* exceeds 100 ~~30~~ shall be provided with two separate and *approved* fire apparatus access roads.

**Exceptions:**

1. Where there are more than 100 ~~30~~ *dwelling units* on a single public or private fire apparatus access road and all *dwelling units* are equipped throughout with an *approved automatic sprinkler system* in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3 of the *International Fire Code*, access from two directions shall not be required.

Charlie Johnson spoke on this item.

**Item C – 2 Request by Charlie Johnson representing NCDOT/OSFM to amend the 2018 NC Fire Code, Section D107.2 as follows (220614 Item B-2):**

**D107.2 Remoteness.** Where two fire apparatus access roads are required, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

## PENDING BCC APPROVAL

**Exception:** For developments where compliance is technically infeasible because of road connectivity limitations, real property dimensions or limitations, real property acquisition constraints, or environmental constraints, as determined by the property owner or developer, the fire code official shall either not require two fire apparatus access roads or allow for alterations that provide for fire apparatus access road remoteness to the maximum extent technically feasible.

Charlie Johnson spoke on this item.

**Item C – 3 Request by Colin Triming representing the NC Fire Code Revision Committee to amend the 2018 NC Fire Code Sections 510.4.2, 510.5, 510.5.4, and Chapter 80 as follows (220614 Item B-3):**

**510.4.2 System design.** The in-building 2- way emergency responder communication coverage system shall be designed in accordance with Sections 510.4.2.1 through 510.4.2.8 and NFPA ~~1221~~.1225

**510.5 Installation requirements.** The installation of the in-building 2- way emergency responder communication coverage system shall be in accordance with NFPA ~~1221~~ 1225 and Sections 510.5.1 through 510.5.5.

**510.5.4 Acceptance test procedure.** Where an in-building 2- way emergency responder communication coverage system is required, and upon completion of installation, the building owner shall have the radio system tested to verify that two-way coverage on each floor of the building is not less than 95 percent. The test procedure shall be conducted as follows:

1. Each floor of the building shall be divided into a grid of 20 approximately equal test areas. Where a floor exceeds 128,000 ft<sup>2</sup> (11,900 m<sup>2</sup>), which is the floor area that can be covered by the maximum grid dimension of 80 ft. (24.4m), the floor shall be subdivided into sectors each having an area less than or equal to 128,000 ft<sup>2</sup> (11,900 m<sup>2</sup>), and each sector be tested individually with 20 grid cells in each sector. Signal strength measurements should be taken at the center of each grid and should be performed using standardized parameters as specified by NFPA ~~1221~~ 1225

*(Remainder of this section is unchanged by this proposed amendment)*



**PENDING BCC APPROVAL**

**Chapter 80 Referenced Standards**

**NFPA**

~~NFPA 1221-19 Standard for the Installation, Maintenance, and Use of  
Emergency Services Communications Systems.....510.4.2, 510.5,  
510.5.4.~~

NFPA 1225 – 22 Standard for Emergency Services  
Communications.....510.4.2, 510.5, 510.5.4.

Colin Triming spoke on this item.

**Item C – 4 Request from Mark Burns representing NC DOI / OSFM to amend the  
2018 Plumbing Code, Table 605.3 as follows (220614 Item B-5):**

**TABLE 605.3  
WATER SERVICE PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Polyvinyl chloride (PVC) plastic pipe	ASTM D1785; ASTM D2241; ASTM D2672; CSA B137.3; <u>ANSI/AWWA C900</u>

*(Remainder of this table is unchanged by this proposed amendment)*

David Rittlinger spoke on this item.

**Item C – 5 Request from Mark Burns representing NCDUI / OSFM to amend the  
2018 Residential Code, Table P2906.4 as follows (220614 Item B-6):**

**TABLE P2906.4  
WATER SERVICE PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Polyvinyl chloride (PVC) plastic pipe	ASTM D1785; ASTM D2241; ASTM D2672; CSA B137.3; <u>ANSI/AWWA C900</u>

*(Remainder of this table is unchanged by this proposed amendment)*

David Rittlinger spoke on this item.

## PENDING BCC APPROVAL

### 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 on June 14, 2022. The Final Adoption meeting took place on September 13, 2022. The Council will give no further consideration to Petitions that are disapproved. Petitions that are approved will proceed through the Rulemaking process. The effective date is January 1, 2023 unless otherwise noted.

#### Item D – 1 Request by Carl Martin representing NC Department of Insurance to amend the 2018 NC Residential Code, Sections R101.2 and R202 as follows (220315 Item B-3):

##### **R101.2 Scope.**

The provisions of the *International Residential Code for One- and Two-family Dwellings* shall apply to the construction, *alteration*, movement, enlargement, replacement, repair, *equipment*, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and *townhouses* not more than three stories above *grade plane* in height with a separate means of egress, and their *accessory structures* not more than three stories above *grade plane* in height. Single family dwellings otherwise permitted by this code shall include *bed and breakfast homes*.

##### **Exceptions:**

1. Live/work units ~~located in townhouses~~ and complying with the requirements of Section 419 of the *International Building Code* shall be permitted to be built as one- and two- family *dwellings* or townhouses. Fire suppression required by Section 419.5 of the *International Building Code* where constructed under the *International Residential Code for One- and Two-family Dwellings* shall conform to Section P2904.
2. Deleted.

##### **Section R202 DEFINITIONS**

**LIVE/WORK UNIT.** *A dwelling unit in which more than 10 percent and less than 50 percent of the space includes a nonresidential use that is operated by the tenant.*

**Residential Super Committee: Motion to approve made by C. Berg. Second made by R. Axford.**

**Motion passed with an effective date of 1/1/2025.**

**Building Code Council: Motion to approve with an effective date of 1/1/2025 made by G. Emblar. Second made by J. Hilton.**

**Motion passed.**

## PENDING BCC APPROVAL

**Item D - 2 Request from Carl Martin representing NC Department of Insurance to amend the 2018 NC Residential Code, Section R101.2 and Table R302.1; the 2018 NC Building Code Table 602 and Section 903.2.8; and the 2018 NC Fire Code, Section 903.2.8 as follows (220315 Item B-4):**

### **NCRC:**

#### **R101.2 Scope.**

The provisions of the *International Residential Code for One- and Two-family Dwellings* shall apply to the construction, *alteration*, movement, enlargement, replacement, repair, *equipment*, use and occupancy, location, removal and demolition of one or more detached one- and two-family dwellings and townhouses located on a parcel not more than three stories above *grade plane* in height with a separate means of egress, and their *accessory structures* not more than three stories above *grade plane* in height. Single family dwellings otherwise permitted by this code shall include *bed and breakfast homes*.

#### **Exceptions:**

1. Live/work units located in *townhouses* and complying with the requirements of Section 419 of the *International Building Code* shall be permitted to be built as one- and two- family *dwellings* or townhouses. Fire suppression required by Section 419.5 of the *International Building Code* where constructed under the *International Residential Code for One- and Two-family Dwellings* shall conform to Section P2904.
2. Deleted.

### **NCRC:**

#### **Section R202 DEFINITIONS**

**TOWNHOUSE.** A single-family *dwelling unit* constructed in a group of two or more attached units separated by property lines or assumed property lines in which each unit extends from foundation to roof and with yard or public way on not less than two sides.

**PENDING BCC APPROVAL**

**NCRC:  
TABLE R302.1  
EXTERIOR WALLS**

EXTERIOR WALL ELEMENT		MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E 119 or UL 263 with exposure from both sides	< 3 feet <u>&lt; 5 feet<sup>a</sup></u>
	Not fire-resistance rated	0 hours	≥ 3 feet <u>&gt; 5 feet<sup>a</sup></u>
Projections	Fire-resistance rated	1 hour on the underside	< 3 feet <u>&lt; 5 feet<sup>a</sup></u>
	Not fire-resistance rated	0 hours	≥ 3 feet <u>&gt; 5 feet<sup>a</sup></u>
Openings in walls	Not allowed	N/A	< 3 feet <u>&lt; 5 feet<sup>a</sup></u>
	Unlimited	0 hours	≥ 3 feet <u>&gt; 5 feet<sup>a</sup></u>
Penetrations	All	Comply with Section R302.4	< 3 feet <u>&lt; 5 feet<sup>a</sup></u>
		None required	≥ 3 feet <u>&gt; 5 feet<sup>a</sup></u>

For SI: 1 foot = 304.8 mm.

N/A = Not Applicable.

a. Fire separation distance requirement for multiple dwellings on a single parcel.

**PENDING BCC APPROVAL**

**NCBC:**

**TABLE 602**

**FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE<sup>a,d,g</sup>**

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H <sup>e</sup>	OCCUPANCY GROUP F-1, M, S-1 <sup>f</sup>	OCCUPANCY GROUP A, B, E, F-2, I, R <sup>ij</sup> , S-2, U <sup>h</sup>
$X < 5^b$	All	3	2	1
$5 \leq X < 10$	IA Others	3 2	2 1	1 1
$10 \leq X < 30$	IA, IB IIB, VB Others	2 1 1	1 0 1	1 <sup>c</sup> 0 1 <sup>c</sup>
$X \geq 30$	All	0	0	0

For SI: 1 foot = 304.8 mm.

- a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
- b. See Section 706.1.1 for party walls.
- c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
- d. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
- e. For special requirements for Group H occupancies, see Section 415.6.
- f. For special requirements for Group S aircraft hangars, see Section 412.4.1.
- g. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.
- h. For a building containing only a Group U occupancy private garage or carport, the exterior wall shall not be required to have a fire-resistance rating where the fire separation distance is 5 feet (1523 mm) or greater.
- ~~i. For Group R-3 detached one- and two-family dwellings of any construction type and not more than three stories above grade plane in height with a separate means of egress, a fire separation distance of 5 feet or less shall be 1-hour fire resistant rated and shall be 0-hour fire resistant rated for distances greater than 5 feet.~~
- ~~j. For Group R-3 attached one- and two-family dwellings of any construction type separated with fire walls complying with Section 706, containing no other occupancy classification, and not more than three stories above grade plane in height with a separate means of egress, a fire separation distance of 5 feet or less shall be 1-hour fire resistant rated and shall be 0-hour fire resistant rated for distances greater than 5 feet.~~

**NCBC:**

**903.2.8 Group R.** An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R *fire area*, except as provided for in Section 903.2.8.5.

## PENDING BCC APPROVAL

### Exceptions:

1. An *automatic sprinkler system* is not required in new adult and child day care facilities located in existing Group R-3 and R-4 occupancies.
2. An *automatic sprinkler system* is not required in *temporary overflow shelters*.
3. An *automatic sprinkler system* is not required in camping units located within a campground where all of the following conditions exist.
  - 3.1. The camping unit is limited to one story in height.
  - 3.2. The camping unit is less than 400 square feet (37 m<sup>2</sup>) in area.
  - 3.3. The camping unit does not have a kitchen.
4. An automatic sprinkler system is not required in an *open air camp cabin* that complies with the following:
  - 4.1. The *open air camp cabin* shall have at least two remote unimpeded exits. Lighted exit signs shall not be required.
  - 4.2. The *open air camp cabin* shall not be required to have plumbing or electrical systems, but if the cabin has these systems, then the provisions of the code otherwise applicable to those systems shall apply.
  - 4.3. Smoke alarms and portable fire extinguishers may be required as otherwise provided in the code.
- ~~5. An *automatic sprinkler system* is not required in the following Group R-3 buildings not more than three stories above grade plane in height with a separate means of egress:
  - 5.1. Detached one and two family *dwelling*s.
  - 5.2. Attached one and two family *dwelling*s separated with fire walls complying with Section 706 and containing no other occupancy classification.~~

## PENDING BCC APPROVAL

### NCFC:

**903.2.8 Group R.** An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R *fire area*.

### Exceptions:

1. An *automatic sprinkler system* is not required in new adult and child day care facilities located in existing Group R-3 and R-4 occupancies.
2. An *automatic sprinkler system* is not required in *temporary overflow shelters*.
3. An *automatic sprinkler system* is not required in camping units located within a campground where all of the following conditions exist.
  - 3.1. The camping unit is limited to one story in height.
  - 3.2. The camping unit is less than 400 square feet (37 m<sup>2</sup>) in area.
  - 3.3. The camping unit does not have a kitchen.
4. An automatic sprinkler system is not required in an *open air camp cabin* that complies with the following:
  - 4.1. The *open air camp cabin* shall have at least two remote unimpeded exits. Lighted exit signs shall not be required.
  - 4.2. The *open air camp cabin* shall not be required to have plumbing or electrical systems, but if the cabin has these systems, then the provisions of the code otherwise applicable to those systems shall apply.
  - 4.3. Smoke alarms and portable fire extinguishers shall be installed as required by other sections of this code.
- ~~5. An *automatic sprinkler system* is not required in the following Group R-3 buildings not more than three stories above grade plane in height with a separate means of egress:
  - 5.1. Detached one and two family dwellings.~~

## PENDING BCC APPROVAL

~~5.2. Attached one and two family dwellings separated with fire walls complying with NC Building Code, Section 706 and containing no other occupancy classification.~~

**Residential Super Committee: Motion to approve made by J. Hilton. Hilton amended his motion to approve with an effective date of January 1, 2025. Second made by R. Axford  
Motion passed.**

**Commercial Super Committee: Motion to approve with an effective date of January 1, 2025 made by D. Gieser. Second made by N. MacDonald.  
Motion passed.**

**Building Code Council: Motion to approve with and effective date of January 1, 2025 made by M. Ali. Second made by D. Gieser.  
Motion passed.**

**Item D – 3 Request by Kim Wooten representing self to amend the 2020 National Electrical Code, Article 100 Definitions as follows (220315 Item B-6):**

**2020 NEC text:**

**Article 100 - Definitions**

**Coordination, Selective (Selective Coordination)**

~~Localization of an overcurrent condition to restrict outages to the circuit or equipment affected, accomplished by the selection and installation of overcurrent protective devices and their ratings or settings for the range of available overcurrents, from overload to the available fault current, and for the full range of overcurrent protective device opening times associated with those overcurrents.~~

**Replace via Amendment with:**

**Article 100 – Definitions**

**Coordination, Selective (Selective Coordination)**

Localization of an overcurrent condition to restrict outages to the circuit or equipment affected for fault current events that extend beyond 0.1 second, and accomplished by the selection and installation of overcurrent protective devices and their ratings or settings for the range of available overcurrents under such conditions, whether originating from overload, ground-fault or short circuit, and for the full range of overcurrent protective device opening times applicable to such events.



## PENDING BCC APPROVAL

R. Axford spoke to this item for the members of the committee that met at the ad hoc meeting. There were no recommendations either way for this item.

**Commercial Super Committee: Motion to table this item until the December 13, 2022 meeting was made by N. MacDonald. Second made by G. Shealey. Motion passed.**

**No further action taken by the Building Code Council at this time.**

**Item D – 4 Request from Carl Martin representing NC Department of Insurance to amend the 2018 NC Administrative Code, Section 204.3.5 as follows 220315 Item B-7):**

**204.3.5 Design professional seal required.** Where the General Statutes, North Carolina Board of Architecture and Registered Interior Designers, or the North Carolina Board of Examiners for Engineers and Land Surveyors require, no permit shall be issued unless the construction documents (drawings and specifications), bear the North Carolina seal of a registered design professional. Construction documents shall include the name and address of the business entity (individual, corporation or partnership) with whom the registered design professional is affiliated. Questions concerning this section should be directed to the North Carolina Board of Architecture and Registered Interior Designers or the North Carolina Board of Examiners for Engineers and Land Surveyors.

**Exceptions:** ~~For permitting purposes, the seal of a registered design professional is not required when the building, structure or project involved is in one of the categories listed below, unless otherwise required pursuant to the provisions of the General Statutes or the technical codes:~~

- ~~1. A family residence, up to eight units attached with grade level exit, which is not a part of or physically connected with any other buildings or residential units;~~
- ~~2. A building upon any farm that is for the use of any farmer, unless the building is of such nature and intended for such use as to substantially involve the health or safety of the public;~~
- ~~3. An institutional or commercial building if it does not have a total cost of construction exceeding \$90,000;~~
- ~~4. An institutional or commercial building if the total building area does not exceed 2,500 square feet (2.32 m<sup>2</sup>) in gross floor area;~~
- ~~5. Alteration, remodeling or renovation of an existing building that is exempt under this section, or alteration, remodeling or renovation of an existing building or building site that does not alter or affect the structural system of the building; change the building's access or exit pattern; or change the live or dead load on the building's structural system. This~~

**PENDING BCC APPROVAL**

~~subdivision shall not limit or change any other exemptions to this chapter or to the practice of engineering under Chapter 89C of the General Statutes.~~

~~6. The preparation and use of details and shop drawings, assembly or erection drawings, or graphic descriptions utilized to detail or illustrate a portion of the work required to construct the project in accordance with the plans and specifications prepared or to be prepared under the requirements or exemptions of this chapter.~~

~~7. Nothing in this chapter shall be construed to prevent any individual from making plans or data for buildings for himself or herself. This exemption does not apply to plans for places of religious worship.~~

(General Statute 83A-13)

**Residential Super Committee: Motion to approve made by J. Hilton. Second made by R. Axford.  
Motion passed.**

**Commercial Super Committee: Motion to approve made by C. Berg. Second made by N. MacDonald.  
Motion passed.**

**Building Code Council: Motion to approve made by M. Ali. Second made by G. Embler.  
Motion passed.**

**Item D – 5 Request from Bryan Holland representing National Electrical Manufacturers Association (NEMA) to amend the 2018 NC Electrical Code, Section 10.1 and 10.2 as follows (211214 Item B-7)  
(Tabled from the June 14, 2022 meeting):**

**10.1 TITLE**

These Administrative Regulations along with the requirements included in the 2020 Edition of the National Electrical Code (NFPA-70 - 2020) as adopted by the North Carolina Building Code Council on June 8, 2021, to be effective November 1, 2021, with the following amendments:

- |                  |                   |                  |
|------------------|-------------------|------------------|
| (1) 110.26(E)(2) | (12) 230.67       | (23) 334.15(C)   |
| (2) 210.8        | (13) 230.71(B)    | (24) 406.4(D)(4) |
| (3) 210.8(A)     | (14) 230.85       | (25) 410.2       |
| (4) 210.8(A)(2)  | (15) 250.50       | (26) 410.16(C)   |
| (5) 210.8(A)(3)  | (16) 250.53(A)(2) | (27) 555.10(3)   |

## PENDING BCC APPROVAL

(6) 210.8(A)(5)	(17) 250.140	(28) 555.35(A)(3)
(7) 210.8(B)(4)	(18) 250.142(B)	(29) 680.4
(8) 210.8(F)	(19) 300.3(B)	(30) 680.21(D)
(9) 210.12(D)	(20) Table 300.5	(31) 695.2
(10) 210.52(B)(2)	(21) 300.9	(32) 695.3
(11) 210.52(C)(2)	(22) 320.23(A)	

shall be known as the North Carolina Electrical Code, and may be cited as such or as the State Electrical Code; and will be referred to herein as “the code” or “this code”. This code shall ~~not~~ apply to one- and two-family dwellings effective November 1, 2022. ~~The 2017 State Electrical Code shall apply to one and two family dwellings.~~

### 10.2 SCOPE

~~Article 80 Administration and Enforcement of the code is hereby not adopted and does not apply for this code.~~ For Scope and Exceptions to Applicability of Technical Codes, refer to the North Carolina Administrative Code and Policies. ~~This code shall not apply to one and two family dwellings.~~

Proponent made request to table this item until the September 2022 NC BCC meeting pending possible legislative action.

The proponent requested that this item be withdrawn; however, the Building Code Council voted on this item for proper procedural process.

**Residential Super Committee: Motion to disapprove made by J. Hilton. Second made by G. Shealey.  
Motion passed.**

**No further action was taken by the Building Code Council.**

## Part E – Reports

### ❖ Ad-Hoc Committee Reports

The Mechanical Committee is through Chapter 8 of the commercial requirements. The residential requirements and chapters 9 – 14 of the commercial requirements remain. Their next meeting is scheduled for September 20, 2022.

The Structural Committee has completed their updates of the 2024 codes and are waiting to send it before the Council.

## **PENDING BCC APPROVAL**

The Residential Committee is through with the majority of the chapters. They will likely have two more meetings and will announce their next meeting date.

The Joint Building and Fire Committee has finished going through the Building Code and are tying up a few things in the Fire Code. Their next meetings are scheduled for September 22<sup>nd</sup> & 23<sup>rd</sup>. These will be held virtually.

The Plumbing Committee has completed going through the Plumbing Code and Chapter 29 of the Building Code. They are working on the Residential Code. The next meeting will be held on September 29<sup>th</sup>. They are doubling up on meetings in order to complete the code.

The Existing Building Committee is basically complete. Some minor correlation remains.

The Energy Committee has completed a review of the Energy Conservation Code and issued a summary report of the differentials of changes between the Commercial and Residential codes. They need to resolve those differences. Their next meeting is September 21, 2022.

The Fuel Gas Committee is through chapter 7 of the Fuel Gas Code. They are starting the work on chapter 24 of the Residential code. The next meeting is September 20, 2022.

The Administrative Committee has one, possibly two more meetings scheduled. They have some language suggestions from staff to review on alternative means and methods which was designated to the Council in Statutes. They are hoping to have something for consideration at the December meeting.

### **❖ Standing Committee Reports**

There were no Standing Committee Reports.

### **❖ Staff Reports**

David Rittlinger, staff with NC DOI, reported there are two new Code Consultants starting soon. The Residential Code Consultant will start on September 19<sup>th</sup> and the Mechanical Fuel Gas Consultant will start on October 3<sup>rd</sup>.

### **❖ Chair Report**

The Chair thanked all the staff in the Standing Committee meetings the day before for all their help. There were some summary updates on the ad hoc committees'

## **PENDING BCC APPROVAL**

progress for the benefit of all the Council members to help them prepare for the 2024 code changes they are getting ready to consider. She understood it was a quick turn around for the staff to get documents together and it was appreciated.

There are still two outstanding legislative items:

- The Energy Standing committee heard a first draft on the temporary rule that is in place for the duct insulation that was drafted by staff. It is a temporary rule and will hopefully come before the Council at the December meeting. Because it is a temporary rule, it will not be going through the BCD process. According to Statutes, temporary rules are treated differently than normal rulemaking. This one will come through to a vote and will be noticed before the adoption of it.
- There are statues regarding apparatus accessible roads and sprinklers in residential dwellings of a certain number. There were some C-items on the agenda today that addressed previous legislation. It was confirmed with staff that we are continuing to investigate to make sure that we are complying with the statutes that are in place. If there is gap in that, it will be brought to us as well.

Again, the approval of alternative means is being worked on through the ad hoc committee process and should have something to start the rulemaking process as a B-item.

Adjourned