



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 - 25
(Electrical Engineer)

Robert Zapple - 28
(County Gov't Rep)

December 5, 2023

Bridget Herring
P.O. Box 7148
Asheville, NC 28802

RE: Agenda for the December 12, 2023 NC Building Code
Council Meeting

Ms. Herring:

This is officially to notify you and other interested parties of a regularly scheduled meeting of the NC Building Code Council. Persons requiring auxiliary services should notify the Council at least ten business days prior to the meeting.

1. The NC Building Code Council Meeting will begin at 9:00AM on Tuesday, December 12, 2023 in Room 245 (Albemarle Building) 325 North Salisbury Street, Raleigh, NC 27603. The meeting can be viewed remotely via Facebook Live (<https://www.facebook.com/NCOSFMEngineering>). Remote access does not provide capability to address the council.
2. Standing Committees will meet beginning at 9:00AM on Monday, December 11, 2023 in Room 245 (Albemarle Building) 325 North Salisbury Street, Raleigh, NC 27603.
3. The Agenda is printed as follows:
 - A- Items - Administrative items that require Council action and temporary rules.
 - B- Items - New amendment petitions introduced at this meeting.
 - C- Items - Amendments that have been granted by the Council and advertised in the NC Register for public hearing.

D- Items - Adoption of amendments by the Council prior to approval by the Rules Review Commission.

E- Items - Reports from Committees and Staff.

F- Items - Notice of Appeal Hearings.

Part A – Administrative Items

- Item A – 1 Ethics Statement: Inquire upon conflicts of interest or appearance of conflicts that exist within the Council.**
- Item A – 2 Approval of minutes of the September 12, 2023 NC Building Code Council Meeting.**
- Item A – 3 Approval of 2024 Building Code Council meeting dates.**
- Item A - 4 NCBCC memo with general recommendations to OSFM staff concerning the NC General Assembly Session Law 2023-108 OSFM staff report due to the chair of the House Local Government – Land Use, Planning and Development Committee, the chair of the Senate State and Local Government Committee, and the Joint Legislative Commission on Governmental Operations, as required by Section 1A of the law.**
- Item A – 5 Request from the Town of Morrisville to adopt amendments to Chapter 22 - Fire Prevention and Protection as part of the Morrisville Town Code of Ordinances.**
- Item A – 6 Request from Randolph County for approval of all appendices in the NC Fire Code.**
- Item A – 7 Request from Brunswick County for approval of the Brunswick County Fire Prevention Ordinance, which includes administration, inspections schedule for existing buildings, permits, plan review and fees, civil penalties, collection of fees, programs and fire prevention specifications.**
- Item A – 8 Rules Review Commission Meeting Report**
- Item A – 9 Public 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 12, 2023 meeting. All B items can be viewed and downloaded from: <https://www.ncosfm.gov/news/events/building-code-council-meeting-december-12-2023>

There will be no B items received from the floor.

Item B – 1 Request from NC BCC NCAC&P Standing Committee to amend the 2024 NC Administrative Code and Policies, Section 107 as follows:

107.1 General. The inspection department shall perform the following inspections:

1. Footing – 107.1.1;
2. Under slab, as appropriate – 107.1.2;
3. Foundation – 107.1.3;
4. Building framing – 107.1.4;
5. Sheathing – 107.1.5;
- ~~5~~6. Rough-in ~~107.1.5~~107.1.6;
- ~~6~~7. Insulation ~~107.1.6~~107.1.7;
- ~~7~~8. Fire protection ~~107.1.7~~107.1.8; and
- ~~8~~9. Final ~~107.1.8~~ 107.1.9.

....

107.1.5 Sheathing inspection. Required for structures constructed under the NC Building Code where the exterior sheathing is part of the lateral force resistance system. Required for dwellings constructed under the NC Residential Code in 140 mph wind zones or higher where the exterior sheathing is part of the wall bracing system. Sheathing inspection shall be made during or after the framing inspection, but before the water-resistant barrier and exterior finish is installed.

Commentary: This inspection verifies that sheathing and sheathing fasteners are installed as required by the code or the design professional. Sheathing fasteners connect sheathing to the framing to prevent framing from racking during wind or seismic loads. At the discretion of the building inspector, this inspection can be performed concurrently with the framing inspection.

~~107.1.5~~107.1.6 Rough-in inspection. Rough-in inspections shall be made when all building framing and parts of the electrical, plumbing, fire protection, or heating-ventilation or cooling system that will be hidden from view in the finished building have been placed, but before any wall, ceiling finish, or building insulation is installed.

Commentary: Plumbing, mechanical, and electrical components installed underground should be considered as rough-in inspections and may be inspected at any point during construction prior to covering.

~~107.1.6~~107.1.7 Insulation inspection. Insulation inspections shall be made after an approved building framing and rough-in inspection and after the permanent roof covering is installed, with all insulation and vapor retarders in place, but before any wall or ceiling covering is applied.

Commentary: Insulation baffles that cannot be seen at this inspection, such as vaulted ceilings with concealed rafter cavities, should have baffles installed at framing inspection for verification.

It is acceptable that wall cavity insulation enclosed by an air barrier material behind tubs, showers, and fireplace units installed on exterior walls may not be observable by the code official.

~~107.1.7~~107.1.8 Fire protection inspection. Fire protection inspections shall be made in all buildings where any material is used for fire protection purposes. The permit holder or his agent shall notify the inspection department after all fire protection materials are in place. Fire protection materials shall not be concealed until inspected and approved by the code enforcement official.

Commentary: Fire protection inspection is typically performed in commercial building structures and is required in addition to any special inspection as listed in Chapter 17 of the North Carolina Building Code.

~~107.1.8~~107.1.9 Final inspection. Final inspections shall be made for each trade after completion of the work authorized under the technical codes.

Commentary: Each trade shall complete a final inspection giving approval to permitted work. Work required by the technical codes shall be complete before being requested. Temporary power and temporary certificate of occupancy (TCO) requests are allowed prior to final inspection.

Item B – 2 Request from David B. Rittlinger representing staff to amend the 2024 NC Administrative Code and Policies, Section 106.3.1 as follows:

106.3 Permit application.

106.3.1 Information required. A permit application shall be filed with the Inspection Department on a form (see Appendix A) furnished for that purpose. The Inspection Department shall make available a list of information that must be submitted with the building permit application, ~~including a complete building code summary (see Appendix A of the Administrative Code and Policies).~~ A local government shall not require a permit applicant to complete an Appendix B with a set of plans submitted for review. A local government shall only request specific building code summary information from a permit applicant it deems relevant in performing a complete plan review. ~~The~~An Inspection Department's full and partial building code summary forms shall be in the exact format as, and contain only the information in, Appendix B of the Administrative Code and Policies, as relevant to the specific form created. ~~The~~An Inspection Department shall only modify its full and partial building code summary forms as set forth in ~~section~~Section 103.5103.6 Modifications, or as necessary to reflect any changes by the Office of State Fire Marshal to Appendix B that have been approved by the Building Code Council.

Item B – 3 Request from Kate Whalen representing staff to amend the 2024 NC Building Code, Sections 202, 307, and 414 as follows:

Due to size, this petition can be conveniently viewed at the link below:
<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-12-2023>

Item B – 4 Request from Kate Whalen representing staff to amend the 2024 NC Fire Code, Sections 202, 203, 608, 911, 3307, 5003 and Reference Standards as follows:

Due to size, this petition can be conveniently viewed at the link below:
<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-12-2023>

Item B – 5 Request from Kate Whalen representing staff to amend the 2024 NC Mechanical Code, Sections 1101, 1103, 1104, 1106, 1107, 1109, 1110 as follows:

Due to size, this petition can be conveniently viewed at the link below:
<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-12-2023>

Item B – 6 Request from Cliff Isaac representing the NC Home Builders Association to amend the 2018 & 2024 NC Building Code, Section 1109.2 by adding #8 as follows:

8. This section is not applicable to dwellings built under the NC Residential Code that serve as model homes if one temporary ADA accessible portable toilet is provided during the time in which the garage serves as a sales office. A sign shall be provided to direct staff and the public to the ADA portable toilet. Water shall be permitted to be supplied to the entire dwelling while operating as a model home, and when fully converted to a residential dwelling when meeting the NC Residential Code for 1- and 2 family dwellings.

Item B – 7 Request from AIA North Carolina to amend the 2024 NC Energy Conservation Code, Section C502.2 as follows:

C502.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become *conditioned space* shall be required to comply with Section C502.

Exceptions:

1. Where the component performance alternative in Section C402.1.5 is used to comply with this section, the proposed UA shall be not greater than ~~110~~120 percent of the target UA.
2. Where the total building performance option in Section C407 is used to comply with this section, the annual energy cost of the proposed design shall be not greater than ~~110~~120 percent of the annual energy cost otherwise permitted by Section C407.2.

Item B – 8 Request from AIA North Carolina to amend the 2024 NC Energy Conservation Code, Section 505.1 as follows:

C505.1 General. Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with this code. Where the use in a space changes from one use in Table C405.3.2 (1) or C405.3.2(2) to another use in Table C405.3.2 (1) or C405.3.2(2), the install lighting wattage shall comply with Section C405.3. With the space undergoing a change in occupancy or use is in a building with a fenestration area that exceeds the limitations of Section C402.4.1, the space is exempt from Section C402.4.1 provided that there is not an increase in fenestration area.

Exceptions:

1. Where the component performance alternative in Section C402.1.5 is used to comply with this section, the proposed UA shall not be greater than ~~110~~120 percent of the target UA.
2. Where the total building performance option in Section C407 is used to comply with this section, the annual energy cost of the proposed design shall not be greater than ~~110~~120 percent of the annual energy cost otherwise permitted by Section C407.2.

Item B – 9 Request from Dan Dittman representing staff to amend the 2024 NC Energy Conservation Code, Section C101.2 as follows:

C101.2 Scope. This code applies to *commercial buildings* and the buildings' sites and associated systems and equipment.

Exception:

1. Per N.C.G.S. 143-138 (b18), no energy conservation code provisions shall apply to any structure for which the primary occupancy classification is Group F, S, or U pursuant to Chapter 3 of the 2024 North Carolina Building Code. This exclusion shall apply to the entire building area.

Item B – 10 Request from Dan Dittman representing staff to amend the 2024 NC Energy Conservation Code, Section R101.2 as follows:

R101.2 Scope. This code applies to *residential buildings, building sites* and associated systems and equipment.

Exception:

1. In accordance with N.C.G.S. 143-138 (b19), no energy conservation code provisions will apply to detached and attached garages located on the same lot as a *dwelling*.

Item B – 11 Request from Colin Triming representing the NC Fire Code Revision Committee to amend the 2024 NC Fire Code, Chapter 80, NFPA 241 edition as follows:

241-1922

Standard for Safeguarding Construction, Alteration and Demolition Operations

3301.1, 3303.2

Item B – 12 Request from David B. Rittlinger representing staff to repeal the 2017 NC Electrical Code and 2020 NC Electrical Code

effective 1/1/2025 so the 2023 NC Electrical Code can be adopted effective 1/1/2025.

For the NCBCC to adopt the proposed North Carolina amendments to the 2023 National Electrical Code to create the 2023 North Carolina Electrical Code on 12/12/23 and meet the requirements of NCGS Chapter 150B Administrative Procedures Act, the 2017 and 2020 NC Electrical Codes are required to be repealed. The effective date is 1/1/2025. A fiscal note and cost benefit analysis is provided with the proposed adoption of 2023 North Carolina Electrical Code.

The proposed 2023 NC Electrical Code, fiscal note and cost benefit analysis can be found at the following link:

<https://www.ncosfm.gov/news/events/building-code-council-meeting-june-13-2023>

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 will be held on December 12, 2023, and the Final Adoption meeting may take place on or after March 12, 2024. The written public comment period expires on January 16, 2023. All C items can be viewed and downloaded from:

<https://www.ncosfm.gov/news/events/building-code-council-meeting-september-12-2023>

On-site Sign-up Sheet: 3 minutes for public comments, 2 minutes for rebuttals.

Item C – 1 Request from Cheryl K. Dean and Timothy W. Maloney representing the NC Registered Landscape Architects to amend the 2024 NC Administrative Code and Policies, Sections 204.4.5 and 204.4.5.1 as follows (230912 Item B-1):

204.4.5 Design professional seal required. Where the General Statutes, North Carolina Board of Architecture and Registered Interior Designers, the North Carolina Board of Landscape Architects, 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, the North Carolina Board of Landscape Architects, the North Carolina Board of Examiners for Engineers and Land Surveyors, or the National Institute for Certified Engineering Technologies (NICET) Board of Governors.

204.4.5.1 Registered design professional. The registered design professional shall be a registered architect, registered interior designer, registered landscape architect, licensed professional engineer or NICET Level III sprinkler or fire alarm designer legally registered or licensed under the laws of this state.

Item C - 2 Request from Kerry Sutton, P.E. representing the American Concrete Institute, Edward Deaver representing the ACI Carolinas Chapter, Caroline Sutton representing Carolinas Ready Mixed Concrete Association, Shamim Rashid-Sumar, P.E., F.S.F.P.E. representing National Ready Mixed Concrete Association, Griff Shapack, P.E. representing Simpson Strong-Tie, Jay Pease, P.E. representing Owens Corning/Infrastructure Solutions, Jerzy Zemajtis, P.E. representing NEX: An ACI Center of Excellence for Nonmetallic Building Materials, and Jay Thomas representing Structural Technologies to amend the 2024 NC Building Code, Section 1901 as follows (230912 Item B-3):

1901.2 Plain and reinforced concrete. Structural concrete shall be designed and constructed in accordance with the requirements of this chapter and ACI 318 as amended in Section 1905 of this code. Except for the provisions of Section 1904 and 1907, the design and construction of slabs on grade shall not be governed in this chapter unless they transmit vertical *loads* or lateral forces from other parts of the structure to the soil.

1901.2.1 Structural concrete with GFRP reinforcement. Cast-in-place structural concrete internally reinforced with glass fiber reinforced polymer (GFRP) reinforcement conforming to ASTM D7957 and designed in accordance with ACI CODE 440.11 shall be permitted where fire resistance ratings are not required and only for structures assigned to Seismic Categories A, B or C.

Exception: Concrete internally reinforced with GFRP bars shall not be permitted for concrete elements that are part of the seismic lateral force resisting system in structures assigned to Seismic Design Categories B or C.

Add new reference standard(s) to Chapter 35 as follows:

ACI

440.11-22 Building Code Requirements for Structural Concrete Reinforced with Glass Fiber-Reinforced Polymer (GFRP) Bars-Code and Commentary.....1901.2.1

ASTM

D7957-17 Standard Specification for Solid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement.....1901.2.1

Item C – 3 Request from Julius Ballanco, P.E. representing JB Engineering and Code Consulting, P.C. to amend the 2024 NC Mechanical Code, Chapter 15 as follows (230912 Item B-4):

ASHRAE	ASHRAE 1791 Tullie Circle, NE Atlanta, GA 30329	
15— 2019 2022	Safety Standard for Refrigeration Systems	1101.1, 1106.4.2
34— 2019 2022	Designation and Safety Classification of Refrigerants	1102.2.1, 1103..1, Table 1103.1
UL	UL LLC 333 Pfingsten Road Northbrook, IL 60062-2096	
UL/CSA 60335-2-40- 2019 -2022	Household And Similar Electrical Appliances - Safety — Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers	908.1, 916.1, 918.1, 918.2, Table 1101.2
UL/CSA 60335-2-89- 17 2021	Household And Similar Electrical Appliances - Safety — Part 2-89: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Units or Compressor	Table 1101.2

Item C – 4 Request from David Rittlinger representing NCDOI to amend the 2024 NC Administrative Code and Policies by adding Appendix H: “Affidavit of on-site wastewater existing system pursuant to N.C.G.S. 160D-1110(h1)” to comply with SL 2023-90 (H628) that

was signed into law on 7/10/23 and becomes effective 10-1-23
(230912 Item B-8).

APPENDIX H
AFFIDAVIT OF ON-SITE WASTEWATER EXISTING SYSTEM
PURSUANT TO N.C.G.S. §160D-1110(h1)

[This form is only required with a permit application if the permit applicant is applying for exemption as allowed by N.C.G.S. § 160D-1110(h1)]

STATE OF NORTH CAROLINA

COUNTY OF _____

_____ Inspection Department

Address and Parcel Identification of Real Property Where Building is to be Constructed or Altered:

_____ I,

(Print Full Name)

owner of the property, do hereby under penalties of perjury affirm that the proposed building construction will meet local and State on-site wastewater system setback requirements pursuant to N.C.G.S. § 130A-335. Additionally, the proposed construction shall not increase the design daily flow or wastewater strength of the existing system and thereby absolves the State, Inspection Department, and Local Health Department of any responsibility or liability regarding the existing wastewater system.

The property owner may, at his or her discretion, consult with an authorized on-site wastewater evaluator certified by the North Carolina On-Site Wastewater Contractors and Inspectors Certification Board or an inspector, as defined in N.C.G.S. § 90A-71(5), to locate the on-site wastewater existing system and verify setbacks requirements prior to executing this affidavit.

(Signature of Affiant) _____ Date

Sworn to (or affirmed) and Subscribed before me this the _____ day of _____, 20_____

Signature of Notary Public

Printed Name of Notary Public

My Commission Expires: _____ (Notary Stamp or Seal)

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 September 12, 2023 for all petitions except for Item D-4. A special Public Hearing for Item D-4 was held on October 17, 2023. The Final Adoption meeting will take place on December 12, 2023. 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, 2025 *unless* otherwise noted.

Item D – 1 Request from the BCC Mechanical Standing Committee to adopt the 2024 edition of the North Carolina Mechanical Code as presented by the committee (230613 Item B-1).

The proposed amendments to the 2021 International Mechanical Code to establish the 2024 NC Mechanical Code can be found at the following link on the NCDOI website. Select the link to “B-1 2024 NCMC”: <https://www.ncosfm.gov/b-1-2024-ncmc>

The 2021 International Mechanical Code can be found at the following link on the ICC website:

<https://codes.iccsafe.org/content/IMC2021P3>

Item D – 2 Request from the BCC Mechanical Standing Committee to adopt the 2024 edition of the North Carolina Fuel Gas Code as presented by the committee (230613 Item B-2).

The proposed amendments to the 2021 International Fuel Gas Code to establish the 2024 NC Mechanical Code can be found at the following link on the NCDOI website. Select the link to “B-2 2024 NCFGC”: <https://www.ncosfm.gov/b-2-2024-ncfgc>

The 2021 International Fuel Gas Code can be found at the following link on the ICC website:

<https://codes.iccsafe.org/content/IFGC2021P2>

Item D – 3 Request from the BCC Electrical Ad-Hoc Committee to adopt the 2023 edition of the North Carolina Electrical Code as presented by the committee (230613 Item B-3 and B-3 Fiscal Note).

Proposed North Carolina Amendments to the 2023 NEC can be found at the following link on the NCDOI website. Select the link to “B-3 2023 NEC”: <https://www.ncosfm.gov/b-3-2023-nec-0>

The Fiscal Note for the proposed 2023 North Carolina Electrical Code can be found at the following link on the NCDOI website. Select the link to “B-3 2023 NEC Fiscal Note”: <https://www.ncosfm.gov/b-3-2023-nec-fiscal-note>

Item D – 4 Request from the NC Building Code Council Energy Standing Committee to adopt the 2024 edition of the North Carolina Energy Conservation Code as presented by the committee as follows (221213 Item B-6):

The proposed amendments to the 2021 International Energy Conservation Code to establish the 2024 NC Energy Conservation Code can be found at the following link on the NCDOI website. Select the link to “B-6 2024 NCECC”:

<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-13-2022>

The 2021 International Energy Conservation Code can be found at the following link on the ICC website:

<https://codes.iccsafe.org/content/IECC2021P2>

The fiscal note can be found at the following link on the NCDOI website. Select the link to “B-6 2024 NCECC Fiscal Note”:

<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-13-2022>

The cost benefit analysis can be found at the following link on the NCDOI website. Select the link to “B-6 2024 NCECC Cost Benefit Analysis”:

<https://www.ncosfm.gov/news/events/building-code-council-meeting-december-13-2022>

Item D – 5 Request from Annette Powell representing herself to amend the 2024 NC Mechanical Code, Section 312.1 and the 2024 NC Residential Code, Section M1401.3 as follows (230613 Item B-7 as modified by the NCBCC on 6/13/23. See Meeting Minutes):

312.1 Load calculations. ...

...

For ~~permitting, inspections,~~ certificate of compliance or certificate of occupancy, load and sizing calculations submittals shall be required.

For ~~permitting, inspections,~~ certificate of compliance or certificate of occupancy, load and sizing calculation review shall not be required.

M1401.3 Equipment and appliance sizing. ...

...

For ~~permitting, inspections,~~ certificate of compliance or certificate of occupancy, Calculations for HVAC Systems-ACCA Manual D, ACCA Manual J, ACCA Manual S load and sizing calculation submittals shall be required.

For ~~permitting, inspections,~~ certificate of compliance or certificate of occupancy, Calculations for HVAC Systems-ACCA Manual D, ACCA Manual J, ACCA Manual S load and sizing calculation review shall not be required.

Item D – 6 Request from John Clark representing the Woodford Manufacturing Company to amend the 2024 NC Residential Code, Section P2903.10 as follows (230613 Item B-8):

P2903.10 Hose Bibb

~~Hose bibbs subject to freezing, including the “frostproof” type, shall be equipped with an accessible stop and waste type valve inside the building so that they can be controlled and drained during cold periods comply with ASSE 1019.~~

~~**Exception:** Frostproof hose bibbs installed such that the stem extends through the building insulation into an open heated or semiconditioned space need not be separately valved (see Figure P2903.10). Stop and waste systems that utilize ASSE 1011 devices may not be used as the vacuum breaker does not automatically drain and is subject to freezing.~~

~~**Exception:** ASSE 1011 equipped hose bibbs may be used in heated spaces where not exposed to freezing temperatures.~~

Item D – 7 Request from Jason Shepherd to amend the 2024 NC Building Code, Section 907.2.3.1 and the 2024 NC Fire Code, Section 907.2.3.1 as follows (230613 Item B-10 as modified by the NCBCC on 6/13/23. See Meeting Minutes):

2024 NC Building Code

907.2.3.1 Automatic smoke detection systems.

An automatic smoke detection system that initiates the occupant notification in accordance with Section 907.5.2.2 shall be installed throughout all stories of Group E buildings.

Exceptions:

1. An automatic smoke detection system shall not be required in Group E occupancies with an *occupant load* of 50 or less.
2. An automatic smoke detection system shall not be required in Group E occupancies that are protected with an *approved automatic sprinkler systems* installed in accordance with Section 903.3.1.1.
3. An automatic smoke detection system shall not be required in licensed day care facilities complying with Section 431.

2024 NC Fire Code

907.2.3.1 Automatic smoke detection systems.

An automatic smoke detection system that initiates the occupant notification in accordance with Section 907.5.2.2 shall be installed throughout all stories of Group E buildings.

Exceptions:

1. An automatic smoke detection system shall not be required in Group E occupancies with an *occupant load* of 50 or less.
2. An automatic smoke detection system shall not be required in Group E occupancies that are protected with an *approved automatic sprinkler systems* installed in accordance with Section 903.3.1.1.
3. An automatic smoke detection system shall not be required in licensed day care facilities complying with Section 431 of the *International Building Code*.

Item D - 8 Request from the Fire Code Revision Committee to amend the 2024 NC Building Code and 2024 NC Fire Code, Sections 1010.2.14, 1010.2.14.4 and 1010.2.1 as follows (230613 Item B-11):

1010.2.14 Controlled egress doors in Groups I-1, I-2, and R-4, and E.

1010.2.14.4 Group E Classrooms. Electric locking systems, including electro-mechanical locking systems and electromagnetic locking systems, shall be permitted to be installed on exit or exit access doors leading from Group E classrooms and day care classrooms within a Group E occupancy where identified and documented by the local school administration as having one or more

students that require restraint to preserve the safety of the student or students and meeting all of the following:

1. The building is equipped with a *fire alarm system* in accordance with Section 907.2.3 (Section 907.2.3, Exception 1 is not applicable).
2. The door locks shall unlock on actuation of the *fire alarm system* and remain unlocked until the *fire alarm system* has been reset.
3. The door locks shall unlock on loss of power controlling the lock or lock mechanism.
4. A building occupant shall not be required to pass through more than one door equipped with a controlled egress locking system before entering an exit.
5. The procedures for unlocking the doors shall be described and approved as part of the emergency planning and preparedness required by Chapter 4 of the *International Fire Code*.
6. Staff within the rooms equipped with controlled egress shall have the keys, codes or other means necessary to operate the locking systems.
7. When operated, the locking system shall remain unlocked for not less than 30 seconds.
8. Emergency lighting shall be provided at the door.
9. The door locking system units shall be listed in accordance with UL 294.

1010.2.1 Unlatching. The unlatching of any door or leaf for egress shall require not more than one motion in a single linear or rotational direction to release all latching and all locking devices.

Exceptions:

1. Places of detention or restraint.
2. Where manually operated bolt locks are permitted by Section 1010.2.5.
3. Doors with automatic flush bolts as permitted by Section 1010.2.4, Item 4.
4. Doors from individual *dwelling units* and *sleeping units* of Group R occupancies as permitted by Section 1010.2.4, Item 5.
5. ~~Group E classrooms identified by the local school administration as having one or more students that require restraint to preserve the safety of the student or students shall be permitted to have latching devices that require a maximum of two motions to unlatch the door from the egress side.~~

Item D – 9 Request from Jason Shepherd representing the Durham County Fire Marshal to amend the 2024 NC Fire Code, Section 105.5.32 as follows (230613 Item B-12):

105.5.32 Mobile food preparation vehicles. (optional permit). An operational permit is required for mobile food preparation vehicles equipped with appliances that produce smoke or grease-laden vapors. Permits shall originate from the commissary address where the mobile food preparation vehicle is associated.

Item D – 10 Request from Jason Shepherd representing the Durham County Fire Marshal to amend the 2024 NC Fire Code, Sections 319.11.1 and 319.11.13 as follows (230613 Item B-13):

319.11.1 Stability. *Mobile food preparation vehicles shall be stabilized against movement when parked for food prep operations in accordance with Section 319.11.1.1 through 319.11.1.23.*

319.11.1.3 Mobile cooking operations. Mobile food preparation vehicles shall be separated from buildings, structures, canopies, tents, combustible materials, vehicles, and other cooking operations by a minimum of 10 feet (3048mm). Exhaust shall be directed away from openings, air intakes and away from any means of egress.

Part E – Reports

- ❖ **Ad-Hoc Committee Reports**
- ❖ **Standing Committee Reports**
- ❖ **Staff Reports**
- ❖ **Chairman’s Report**

Part F – Appeals

Rowan-Cabarrus Community College appeal is scheduled to be held on January 24, 2024 at 9:00 a.m. at the new headquarters of the North Carolina Department of Insurance at 3200 Beechleaf Court, Raleigh NC.

Sincerely,



David Bruce Rittlinger, PE. (Interim) Secretary,
NC Building Code Council