

COMMISSION COUNSEL REPORT AND RECOMMENDATION
MAY 15, 2014

AGENCY: NC BUILDING CODE COUNCIL

RULE CITATION: NC EXISTING BUILDING CODE

Commission Counsel has made numerous technical change requests concerning these rules. The agency has responded with either answers to counsel's questions and comments or with revisions to the rules. These responses and revisions are attached. Counsel is recommending approval of the revisions and approval of the 2015 NC Existing Building Code.

Joseph J DeLuca

Commission Counsel

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 5)
- Preface

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

NOTE WELL: This request when viewed on computer extends several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

In the amendment to the first paragraph change "Exiting" to "Existing."

Editorially changed to "Existing" as requested. The "Preface" is not part of the adopted Code.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 6)
- Effective Use of the IEBC – Arrangement and Format

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In the eighth line of the Chapter 7 description, the second line of Chapter 8, and the third line of Chapter 9 delete or define "detailed."

The "Effective Use of the International Existing Building Code" is narrative and not part of the adopted Code.

In the sixth line of the Chapter 9 material change "cover 50" to "exceed 50" to make it consistent with the material in the other chapter descriptions.

Changed to "exceed" as requested. The "Effective Use of the International Existing Building Code" is narrative and not part of the adopted Code.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE

- 101.1, Title
- 101.2, Scope (NC EBC p. 7) and
- 101.4, Applicability (IEBC p. 1)

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

101.1 – It seems to me that “International Code” should be “International Codes.”

Changed to plural “Codes” as requested.

More importantly the rule states that “references to the International Code” shall mean the North Carolina Codes.” However, in at least one NC amendment, Section 1011.1, ((NC EBC p 57) reference is made to both the International Building Code and to the North Carolina code and allows compliance with either one. Either this definition / note or the use of the terms or both need to be reviewed and adjusted accordingly.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

101.2 and 101.4 – These two subsections are essentially the same with the latter containing a couple of extra provisions. It seems to me that the former could be deleted without any change in the meaning or application of the code. If the former is kept it should refer to the “North Carolina” rather than the “International” Existing Building Code.

While these subsections are similar, Section 101.2 begins with the Scope of the Code. Section 101.4 and its subsections detail how the Code applies two classes of existing buildings.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 8)
- 101.8 Requirements of other State agencies, occupational licensing ...

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Should the owner of the building be included in the list of who has responsibility "to determine whether any additional requirements exist?"

The contractor most often serves as the owner's agent and is the permit holder. The owner is covered under "permit holder" where other agencies allow the owner to do the work without certification or licensure.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 3)

- 104.10, Modifications
- 104.11.1, Research reports
- 104.11.2, Tests

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104.10 – In the International Code the last line of this subsection reads, “The details of action granting modifications shall be recorded and entered in the files of the Department of Building Safety.” Is there a more common name for this (local?) – if this is meant to be filed with the state I am not aware of any such state “department” – department? It would seem there would likely be a name more well recognized in North Carolina.

“Authority Having Jurisdiction” is probably more common, but “Department of Building Safety” is also used.

104.11.1 – In the last line “valid research reports” must come from “approved sources.” Please define “approved” or “approved sources” with this context in mind. Your definition in Chapter 2 leaves it up to the code official. If it is the local official, then your definitions are of no help to that person, but are acceptable. If it is a state official, then you need standards for his or her approval. If it is the agency issuing a set of “approved sources” you need to either specify the sources or the approval standards. In this case it is not even clear who does the approving.

“Approved”, including approved sources, means by the appropriate code official.

The appropriate place for this definition would be Chapter 2.

No additional definition needed.

104.11.2 – The same term, “approved” occurs in this rule in “approved agency.” Thus the need for a definition. It is acceptable for the code official to have absolute discretion in his authority to “approve” a testing procedure. It is not clear who may approve the testing agency.

“Approved”, including approved agency, means by the appropriate code official.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 12)
- 202 General Definitions

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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The following all apply to the N.C. amendments or additions:

202 – Approved: In the context of many of your rules it is not clear who has the approving authority.

“Approved” means by the appropriate code official. The NC Code Officials Qualification Board determines who has jurisdiction based on their certification.

202 – Existing Building: You only need to italicize “legally occupied” once in this context. Doing it again makes it confusing and leaves me wondering whether there is supposed to be another definition for “legally occupied immediately prior to.” Also it is unclear what “immediately” means; please delete, define, or explain.

ICC italicizes all defined terms in the final publication. Deleted “immediately” as requested.

202 – High-Rise Building: I am not sure I understand this. What is a “fire department vehicle access?” Does every tall building have one? And if it doesn’t, does that mean it’s not a high-rise building?

Every high-rise building has at least one fire department vehicle access area. The height from this staging area to the highest occupied floor determines whether or not the building is high-rise.

202 – Occupancy Classification: Occupancy group “M” is omitted from the occupancy classifications. Is this intentional?

Not intentional. Added group “M” to the list.

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February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 12)
- 202 Definitions

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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Please verify that "substantial damage" and "substantial improvement" apply only to flood provisions of the code. The definition of "substantial structural damage" does not appear to have this restriction.

The first two terms apply only to flood provisions. "Substantial structural damage" applies to damage, most likely from seismic or high wind events, to the vertical load-carrying elements.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 14)

- 301.1 Exception:
- 301.1.4 Evaluation
- 301.2 Additional Codes

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

It seems to me that in all these subsections the proper reference should be to the appropriate "North Carolina" code and not to an "International" Code.

The Statutes refer to the "North Carolina State Building Code" as inclusive of all volumes of the adopted Code. This Section refers to prior Editions (1936, 1953, etc.) of the adopted Code. The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Note that I will make this request wherever I see it in the North Carolina changes or any place where I have an otherwise unrelated request related to the International Code. I am not going to request any other changes in the "International" Code where reference is made to other "International" Codes.

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Barry Guppton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 15)

- 401.2.1 Existing materials
- 402.5 Smoke alarms in existing portions

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401.2.1 – It seems to me you should be able to be a bit more specific about which portion of the Building Code – Administrative Codes and Policies you are referring to.

The ICC standard is to specifically reference Sections that are within the document and provide general reference to information found in another document.

402.5 – in the first line it seems to me that the groups should be listed in alphabetical order, "I-1 or R."

I agree, but I prefer to avoid amendments for the sake of amendments.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 16)
- 403.6 Smoke Alarms
- 404.1 General

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403.6 – in the first line it seems to me that the groups should be listed in alphabetical order, “I-1 or R.”

I agree, but I prefer to avoid amendments for the sake of amendments.

404.1 – It would be helpful if you could give a more specific reference to where in the N.C.G.S. the exemption is found.

The ICC standard is to specifically reference Sections that are within the document and provide general reference to information found in another document.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 17)
- 407.1 Conformance (p. 17)

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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It seems to me that your reference should actually be to the "N.C. Building Code" and not the "International Building Code."

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 18)

- 407.3 Stairway (p. 18)
- 407.3 Structural, Exceptions 1 and 2.

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It seems to me that your reference should actually be to the "N.C. Building Code" and not the "International Building Code."

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p.19)

- 410.8.5 Ramps (p. 19)
- 410.8.8 Type A dwelling or sleeping

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It seems to me that your reference should actually be to the "N.C. Building Code" and not the "International Building Code."

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 21)
- 410.9 Historic buildings

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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It is not clear what portions of the code is referred to by "these provisions" in the first line. Please be specific.

The reference to "these provisions" means within this Section. There are currently no NC amendments to this Section.

[B] 410.9 Historic buildings. These provisions This Section shall apply to....

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 23)
- 508.2 Application

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It seems to me that "Section 408 and in" or similar language should be added before "Chapter 12, historic buildings" in the second line.

The Chapter 4 prescriptive method is one of the three main options for compliance. The Chapter 5 work area method is a different path to compliance.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 25)
- 601.1 Scope

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In the third line change "only comply with" to "comply only with."

This is standard ICC language. There are currently no NC amendments to this Section.

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 23)
- 609.2 Materials

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It seems to me that your reference should actually be to the "N.C. Plumbing Code" and not the "International Plumbing Code."

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February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 28)
- 707.1 Minimum requirements

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Reference to "International" rather than "North Carolina" codes.

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February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 29)
- 802.6 Group I-1 and I-3

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802.6 -- The title of the section refers to groups "I-1 and I-3." However the body of the rule refers to groups "I-2 and I-3." Please either correct or explain.

Changed the heading to "I-2 and I-3".

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 30)
- 803.2.1 Existing vertical openings, Exceptions

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

803.2.1 Existing vertical openings, Exceptions – In exception 1 change “and/or” to “and” or “or,” probably the latter.

-- In exception 2 change the reference to the international codes.

Changed the heading to “or” as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p. 33)
- 801.3 Compliance (Exceptions)

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

In Exception 3 change "shall only be required to comply with" to "shall be required only with."

This is standard ICC language. There are currently no NC amendments to this Section.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 32)
- 803.2.1 Existing vertical openings (Exceptions)

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Exception 12.2.2 – change the reference to the International Building Code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 33)

- 803.7 Group R mixed use separation
- 804.2 Automatic sprinkler systems
- 804.2.2 Low-rise buildings

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

803.7 – In the second sentence change “only required to be rated from” to “required to be rated only from.”

This is standard ICC language. There are currently no NC amendments to this Section.

804.2 -- Reference to the International Building Code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

804.2.2 -- Reference to the International Building Code.

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If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p. 34)

- 804.2.3 Windowless stories
- 804.2.3 Exceptions

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

804.2.3 – in the last sentence of the paragraph reference is made to the International code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

804.2.3 – in exception 1.2 it is not clear that if the walls are greater than the minimum specifications, whether there must be more than one opening. Please clarify

This Section specifies the minimum opening size and maximum spacing allowed.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE – (NC EBC p 35)

- 804.2.3 Windowless stories (Exceptions)
- 804.2.4 Supervision
- 804.2.5 Group H

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

In exception 1.6 change “only provided” to “provided only.”

Changed to “provided only” as requested.

In exception 3.2 reference to the “International” code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

804.2.4 – same reference to “international.”

804.2.5 – same reference

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 36)
- 804.4 Fire alarm and detection

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

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804.4 – there is no mention of whether the reference is to the International Code or the North Carolina code.

Included reference to “North Carolina” Fire Prevention Code.

It also seems this should become 804.3 with the deletion of “804.3 Standpipes.” Also, if that is changed, then any other numbers in 804.4 should be changed as well.

We often leave “deleted” Section numbers in place rather than change references throughout the document.

If this number is changed you also need to verify all the internal references to the correct section numbers.

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Joseph J. DeLuca, Jr.
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Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 42)
- 805.3.1.2.1

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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Within this part please verify the specifications in 2.1 and 2.2. My calculations indicate that 5 square feet in 2.1 equals 720 square inches. But if you multiply the minimum clearances in 2.2 of 20 x 24 inches, that equals 480 square inches or less than the minimum required in 2.1. Please clarify this for me.

There are 3 minimums that must be met; width, height and area. If the opening width is minimum, then the height will have to be greater to meet the minimum area. If the opening height is minimum, then the width will have to be greater to meet the minimum area.

In 2.4 reference to the "international" code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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Barry Guppton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (IEBC p 40)
- 805.6 Dead-end corridors -- Exceptions

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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I do not understand exceptions 3 and 4 they both seem to apply to "existing dead-end corridors" in other than Group A and H occupancies. Both also seem to apply to buildings or floors equipped with automatic sprinkler systems. However exception 3 limits the existing corridor to 70 feet while exception 4 seems to make that same limit only 50 feet.

Exception 3 allows an existing dead-end to remain 70 feet or less. Exception 4 requires a newly constructed dead-end in an existing building to be 50 feet or less.

There is another subtle difference between sprinkler coverage in Exceptions 3 and 4 that I failed to point out. #3 requires sprinklers throughout the building and allows a greater dead-end. #4 requires sprinklers on that floor only (partial building sprinklers), but reduces the dead-end allowance.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 45)

- 806.1 General
- 806.1.1 Entrances

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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- 806.1 - Reference to the "international" code.

This Section is underlined, but it is actually relocated from another ICC Section. The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

- In exceptions 2 and 3 references to the "international" code.
- 806.1.1 - reference to the "international" code.

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Joseph J. DeLuca, Jr.
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 46)

- 806.1.4 Ramps
- 806.1.8 Accessible dwelling or sleeping units
- 806.1.9 Type A dwelling or sleeping units

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

References to the "international" code in all three of these.

This Section is underlined, but it is actually relocated from another ICC Section. The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 47)
- 806.1.10 Toilet rooms

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

- reference to the "international" code

This Section is underlined, but it is actually relocated from another ICC Section. The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 48)

- 806.3 Stairs and escalators in existing buildings
- 806.4 Accessible dwelling units and sleeping units
- 806.5 Type A dwelling or sleeping units
- 806.6 Type B dwelling or sleeping units

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

In all of the above there are references to the "international" code.

This Section is underlined, but it is actually relocated from another ICC Section. The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 49)
- 811.1 Minimum Requirements

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

There are references to the "international" code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 50)
- 902.1.3 Luminous egress path

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the international code.

Changed to "North Carolina" as requested.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 51)
- 902.3 Group H
- 904.1.1 Other required automatic sprinkler systems

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the international code in each of these.

Changed to "North Carolina" as requested.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 52)

- 904.1.1 Other required automatic sprinkler (#s 1 and 3)
- 904.2 Standpipes
- 904.3 Fire alarm and detection systems
- 904.3.1 Manual fire alarm systems
- 904.3.2 Automatic fire detection

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

In all the items on this page there are references to the international codes.

Changed to "North Carolina" as requested.

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Joseph J. DeLuca, Jr.
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Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 53)

- 907.4 Existing structural elements
- 908.1 Minimum requirements

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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907.4 – in the paragraph before the exception delete “but not limited to.”

Deleted “but not limited to” as requested.

In the exception to this item there is a reference to the international code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

908.1 - reference to the “international” code.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
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Barry Gupton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 54)
- 1001.4 Certificate of occupancy required

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the "international" code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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Barry Gupton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 55)

- 1007.2 Gravity loads
- 1007.2 Gravity loads – exception #2

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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1007.2 - reference to the “international” code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

1007.2 exception #2 – change “licensed design” to “registered design” to conform to the defined term.

Changed to “registered” as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 56)

- 1007.3 Snow and wind loads
- 1007.4.1 Compliance with the International
- 1007.4.1 Exceptions #1 and 2

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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- Reference to the "international" code in all these parts.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 57)

- 1011.1 Natural light and natural ventilation
- 1012.1 General

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

1011.1 - See my technical change request on page 3 concerning references to the international code and the NC code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

1012.1 – in the amendment change “will” to “shall.”

Changed to “shall” as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 58)
- 1012.1.1 Separation and compliance - Exception

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the international code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 59)
- 1012.2.2 Fire alarm and detection system and Carbon Monoxide
- 1012.4.1 Means of egress for change to higher hazard

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

The Rules Review Commission staff has completed its opinion review of this rule or set of rules your agency filed with the RRC for review by the RRC at its next meeting. The Commission has not yet met and therefore there has not been a determination as to whether the rule will be approved. You may call this office to inquire concerning the staff recommendation.

In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the international code in both these sections.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 60, 61)

- 1012.4.3 Egress capacity
- 1012.5.1.1 Fire wall alternative
- 1012.5.1.1 Fire wall altern. (conditions #1, 2, 3, and exception)
- 1012.7.1 Minimum requirements

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference is made to the international code in all these portions.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
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Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 66)
- 1012.9 Accessibility – Exception
- 1012.9.2 Complete change of occupancy – feature #3

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to the international code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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Joseph J. DeLuca, Jr.
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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 63 and 64)

- 1102.3 Fire protection systems
- 1103.5 Flood hazard areas – requirements 1, 2, 3, and 4
- 1104.1 Smoke alarms in existing portions of a building
- 1104.2 Carbon monoxide alarms in existing portions of a building

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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1102.3 – Reference to the international code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

1103.5 - Reference is made to both international codes and North Carolina codes; see page 3 of these requests.

In 1104.1 reference is made to the International Residential Code while in the next provision, 1104.2, dealing with a similar alarm reference is made to the NC Residential code

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
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Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 65)
- 1201.4 Flood hazard areas

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Reference to both international and North Carolina codes.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
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Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 66)
- 1205.15 Accessibility requirements - exception

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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Reference to the international code.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

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REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 67)

-

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

Please confirm NC EBC page 67 was intentionally blank.

Confirmed.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 68)
- Section 1301

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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In reviewing these rules, the staff determined that one or more technical changes need to be made. Approval of any rule is contingent on making this technical change as set out in G.S. 150B-21.10.

There are references to international codes in almost all the provisions on this page.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 69-71)
- Section 1401

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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There are references to international codes in many of the individual parts of this section.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 72)
- Table 1401.6.19

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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The provided table has the beginning portion of the table not properly copied.

I have revised the margins for printing. ICC will publish the table in standard format.

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 73)

- 1501.5 Fire safety during construction
- 1507.1 Completion before occupancy

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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1501.5 – reference to the international fire code

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

1507.1 – there is a reference to a non-existent NCGS 16-A-423 and I'm not sure what it should refer to.

This reference should be "160A-423".

Please retype or otherwise correct the rule(s) or submission form(s) as necessary and deliver it to our office at 1711 New Hope Church Rd, Raleigh, North Carolina 27609.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 74)
- Referenced Standards

DEADLINE FOR RECEIPT: FRIDAY, FEBRUARY 14, 2014

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Why do you not show "ASTM" and "DOC" as struck through? This appears to be the only portions of the standards that are remaining in the code. There does not seem to be any particular purpose in doing that.

These entire Sections will be "deleted" as noted.

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Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

REQUEST FOR TECHNICAL CHANGE

February 10, 2014

AGENCY: N.C. BUILDING CODE COUNCIL

RULE CITATION: 2012 NC EXISTING BUILDING CODE -- (NC EBC p 77 and 78)

- A105.4 Structural observation
- A205.4 Structural observation

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Reference in both of these to international codes.

The International Codes are referenced throughout the base document. The intent of the general reference in Section 101.1 is to avoid redundant amendments throughout the Code. Reviewed terms as requested.

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If you have any questions or problems concerning this request, please contact me.

Joseph J. DeLuca, Jr.
Commission Counsel

Barry Gupton, PE
Chief Code Consultant

(2015 NC Existing Building Code)
(2012 IEBC with NC Amendments)

NORTH CAROLINA STATE BUILDING CODE COUNCIL
JANUARY 1, 2014
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**NORTH CAROLINA
DEPARTMENT OF INSURANCE**

www.ncdoi.com/osfm
919-661-5880

By Statute, the Commissioner of Insurance has general supervision of the administration and enforcement of the North Carolina State Building Code, and the Engineering Division serves as the Staff for the Building Code Council. Officials of the Department of Insurance are:

WAYNE GOODWIN
Commissioner

RICK McINTYRE
Senior Deputy Commissioner

CHRIS NOLES, PE
Deputy Commissioner

BARRY GUPTON, PE
Chief Code Consultant

MELANIE BUTLER, PE
Existing Building Code Consultant

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JANUARY 1, 2014**

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ACKNOWLEDGEMENTS
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International Existing Building Code Ad-Hoc Committee

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PREFACE

Marginal and Text Markings

Solid vertical lines in the margins within the body of the code indicate a technical change from the requirements of the 2009 edition. Deletion indicators in the form of an arrow (➡) are provided in the margin where an entire section, paragraph, exception or table has been deleted or an item in a list of items or a table has been deleted. Underlining within the body of the code indicates a technical change to the 2012 NC Existing Building Code from the requirements of the 2012 edition of the International Existing Building Code.

A single asterisk [*] placed in the margin indicates that text or a table has been relocated within the code. A double asterisk [**] placed in the margin indicates that the text or table immediately following it has been relocated there from elsewhere in the code. The following table indicates such relocations in the 2012 *International Existing Building Code*.

2012 LOCATION	2009 LOCATION
301.1	101.5
301.1.1	101.5.1
301.1.2	101.5.2
301.1.3	101.5.3
301.1.4	101.5.4
301.1.4.1	101.5.4.1
Table 301.1.4.1	Table 101.5.4.1
301.1.4.2	101.5.4.2
Table 301.1.4.2	Table 101.5.4.2
907.4.4	606.2.1 (706.2.1 in 2012 numbering)

Note that portions of Chapter 1 in the 2009 code, were moved to Chapter 3 in 2012, creating a new chapter. Therefore, all subsequent chapters were renumbered. There are single asterisks [*] and double asterisks [**] shown for this reorganization. The chapters affected are:

2012 LOCATION	2009 LOCATION
Chapter 4	Chapter 3
Chapter 5	Chapter 4
Chapter 6	Chapter 5
Chapter 7	Chapter 6
Chapter 8	Chapter 7
Chapter 9	Chapter 8
Chapter 10	Chapter 9
Chapter 11	Chapter 10
Chapter 12	Chapter 11
Chapter 13	Chapter 12
Chapter 14	Chapter 13
Chapter 15	Chapter 14
Chapter 16	Chapter 15

Effective Use of the International Existing Building Code

Arrangement and Format of the 2012 IEBC

Chapter 7 Alterations—Level 1 (Former Rehab Code designation - Renovation). This chapter provides the technical requirements for those existing buildings that undergo Level 1 alterations as described in Section 403, which includes replacement or covering of existing materials, elements, equipment or fixtures using new materials for the same purpose. This chapter, similar to other chapters of this code, covers all building-related subjects, such as structural, mechanical, plumbing, electrical and accessibility as well as the fire and life safety issues when the alterations are classified as Level 1. The purpose of this chapter is to provide **detailed** requirements and provisions to identify the required improvements in the existing building elements, building spaces and building structural system. This chapter is distinguished from Chapters 8 and 9 by only involving replacement of building components with new components. In contrast, Level 2 alterations involve more space reconfiguration and Level 3 alterations involve more extensive space reconfiguration, exceeding 50 percent of the building area.

Chapter 8 Alterations—Level 2 (Former Rehab Code designation - Alteration). Like Chapter 7, the purpose of this chapter is to provide detailed requirements and provisions to identify the required improvements in the existing building elements, building spaces and building structural system when a building is being altered. This chapter is distinguished from Chapters 7 and 9 by involving space reconfiguration that could be up to and including 50 percent of the area of the building. In contrast, Level 1 alterations (Chapter 7) do not involve space reconfiguration and Level 3 alterations (Chapter 9) involve extensive space reconfiguration that exceeds 50 percent of the building area. Depending on the nature of alteration work, its location within the building and whether it encompasses one or more tenants, improvements and upgrades could be required for the open floor penetrations, sprinkler system or the installation of additional means of egress such as stairs or fire escapes.

Chapter 9 Alterations—Level 3 (Former Rehab Code designation - Reconstruction). This chapter provides the technical requirements for those existing buildings that undergo Level 3 alterations. The purpose of this chapter is to provide detailed requirements and provisions to identify the required improvements in the existing building elements, building spaces and building structural system. This chapter is distinguished from Chapters 7 and 8 by involving alterations that **exceed** 50 percent of the aggregate area of the building. In contrast, Level 1 alterations do not involve space reconfiguration and Level 2 alterations involve extensive space reconfiguration that does not exceed 50 percent of the building area. Depending on the nature of alteration work, its location within the building and whether it encompasses one or more tenants, improvements and upgrades could be required for the open floor penetrations, sprinkler system or the installation of additional means of egress such as stairs or fire escapes. At times and under certain situations, this chapter also intends to improve the safety of certain building features beyond the work area and in other parts of the building where no alteration work might be taking place.

CHAPTER 1

SCOPE AND ADMINISTRATION

PART 1—SCOPE AND APPLICATION

SECTION 101 GENERAL

[A] 101.1 Title.

These regulations shall be known as the North Carolina Existing Building Code as adopted by the North Carolina Building Code Council on December 10, 2013 to be effective March 1, 2015. References to the International Codes shall mean the North Carolina Codes. The North Carolina amendments to the International Codes are underlined.

[A] 101.2 Scope.

The provisions of the *International Existing Building Code* shall apply to the *repair, alteration, change of occupancy, addition and relocation of existing buildings*.

(Delete per RRC comment)

Exceptions: If any of the following apply the building or structure is exempt from the provisions of this code:

1. Farm Buildings as described by G.S. 143-138(b4) that are not used for sleeping purposes and located outside the buildings rules jurisdiction of any municipality. Electrical, plumbing for human use, and mechanical systems for these buildings and structures are not exempt.
2. Greenhouses as described by G.S. 143-138(b4) for farm building use located outside or inside the building rules jurisdiction of a municipality or a county. Electrical, plumbing for human use, and mechanical systems for these buildings are not exempt.
3. Farm buildings for equine activities as described by G.S. 143-138(b4) and located outside the building rules jurisdiction of a municipality. Electrical, plumbing for human use, and mechanical systems for these buildings and structures are not exempt.
4. The design, construction, location, installation or operation of equipment for storing, handling and transporting liquefied petroleum gases for fuel purposes up to the outlet of the first stage pressure regulator, and anhydrous ammonia or other liquid fertilizers.
5. The design, construction, location, installation or operation of equipment or facilities of a public utility, as defined in G.S. 62-3, or an electric or telephone membership corporation, including without limitation poles, towers and other structures supporting electric or communication lines from the distribution network up to the meter location.

Note: All buildings owned and operated by a public utility or an electric or telephone membership corporation shall meet the provisions of the code.
6. The Storage and Handling of Hazardous Chemicals Right to Know Act, Article 18 of Chapter 95 of the North Carolina General Statutes.

[A] 101.4.2 Buildings previously occupied.

The legal occupancy of any building existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the

International Fire Code, ~~or the International Property Maintenance Code~~, or as is deemed necessary by the code official for the general safety and welfare of the occupants and the public.

[A] 101.6 Appendices.

~~The code official is authorized to require rehabilitation and retrofit of buildings, structures or individual structural members in accordance with the appendices of this code if such appendices have been individually adopted.~~

Provisions in the appendices shall not apply unless specifically adopted or referenced in this code.

101.8 Requirements of other State agencies, occupational licensing boards or commissions.

The North Carolina State Existing Building Codes do not include all additional requirements for building and structures that may be imposed by other State agencies, occupational licensing boards and commissions. It shall be the responsibility of a permit holder, registered design professional, contractor or occupational license holder to determine whether any additional requirements exist.

101.9 Mixed Use Buildings.

Each portion of a building shall be separately classified as to use. The requirements of this code shall apply to each portion of the building based on the *occupancy classification* of that portion, except that the most restrictive requirements of this code for fire suppression shall apply to the entire building.

Exception: An automatic fire suppression system shall not be required for uses that would not otherwise require suppression provided that there is a 1-hour separation between the uses requiring suppression and the other uses in the same building. A 2-hour fire separation shall be required to apply this exception to Group H.

101.10 High-rise buildings

High-rise buildings constructed prior to 1978 shall at a minimum comply with North Carolina General Statute 143-138, Section (i). The statute may be viewed at the following web address: http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-138.html

**SECTION 103
DEPARTMENT OF BUILDING SAFETY**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 104
DUTIES AND POWERS OF CODE OFFICIAL**

104.1 through 104.9 deleted. See the North Carolina Administrative Code and Policies.

[A] 104.10.1 Flood hazard areas.

For *existing buildings* located in *flood hazard areas* for which *repairs, alterations* and *additions* constitute *substantial improvement*, the *code official* shall not grant modifications to provisions related to flood resistance unless a determination is made that:

1. The applicant has presented good and sufficient cause that the unique characteristics of the size, configuration or topography of the site render compliance with the flood-resistant construction provisions inappropriate.
2. Failure to grant the modification would result in exceptional hardship.
3. The granting of the modification will not result in increased flood heights, additional threats to public safety, extraordinary public expense nor create nuisances, cause fraud on or victimization of the public or conflict with existing laws or ordinances.
4. The modification is the minimum necessary to afford relief, considering the flood hazard.
5. A written notice will be provided to the applicant specifying, if applicable, the difference between the design flood elevation and the elevation to which the building is to be built, stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced floor elevation and that construction below the design flood elevation increases risks to life and property.

Local ordinances more restrictive than the requirements of this section supersede these requirements.

**SECTION 105
PERMITS**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 106
CONSTRUCTION DOCUMENTS**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 107
TEMPORARY STRUCTURES AND USES**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 108
FEES**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 109
INSPECTIONS**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 110
CERTIFICATE OF OCCUPANCY**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 111
SERVICE UTILITIES**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 112
BOARD OF APPEALS**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 113
VIOLATIONS**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 114
STOP WORK ORDER**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 115
UNSAFE BUILDINGS AND EQUIPMENT**

Deleted. See the North Carolina Administrative Code and Policies.

**SECTION 116
EMERGENCY MEASURES**

Deleted. See the North Carolina Administrative Code and Policies.

SECTION 117 DEMOLITION

Deleted. See the North Carolina Administrative Code and Policies.

CHAPTER 2

DEFINITIONS

SECTION 202

GENERAL DEFINITIONS

ALTERATION. Any construction or renovation to an existing structure other than a *repair* or *addition*. Alterations are classified as Level 1 (Renovation - former NC Rehab designation), Level 2 (Alteration – former NC Rehab designation), and Level 3 (Reconstruction – former NC Rehab designation).

APPROVED. Acceptable to the code official or authority having jurisdiction for compliance with the provisions of the applicable code or reference.

BOARDING HOUSE. A building arranged or used for lodging for compensation, with or without meals, and not occupied as a single-family unit.

[B] EXISTING BUILDING. A building *legally occupied* or *legally occupied immediately* prior to a current vacant status. ~~erected prior to the date of adoption of the appropriate code, or one for which a legal building permit has been issued.~~

HIGH-RISE BUILDING. A building with an occupied floor located more than 75 feet above the lowest level of fire department vehicle access.

LEGALLY OCCUPIED. A building that has a current certificate of occupancy or equivalent documentation provided by the permit holder acceptable to the local code enforcement official.

LISTED. Equipment, materials, products or services included in a list published by an organization acceptable to the code official and concerned with evaluation of products or services that maintain periodic inspections of production of listed equipment or materials or periodic evaluation of services and whose listing states either that the equipment, material, product or service meets identified standards or has been tested and found suitable for a specified purpose.

~~(Delete per RRC comment)~~

~~**NIGHTCLUB.** An establishment meeting all of the following:~~

- ~~1. Has a posted capacity or occupant load that exceeds one occupant per 15 square feet net;~~
- ~~2. Provides live or recorded entertainment by performing artists; and~~
- ~~3. Serves alcoholic beverages~~

OCCUPANCY CLASSIFICATION. A subset of the occupancy group as listed in Chapter 3 of the North Carolina Building Code (i.e. A-1, A-2, A-3, A-4, A-5, B, E, F-1, F-2, H-1, H-2, H-3, H-4, H-5, I-1, I-2, I-3, I-4, M, R-1, R-2, R-3, R-4, S-1, S-2, and U).

OCCUPANCY GROUP. Occupant type as listed in Chapter 3 of the North Carolina Building Code (i.e. A, B, E, F, H, I, M, R, S, U).

OCCUPANCY USE. The function of the space and not necessarily the *occupancy classification*.

OPERATIONAL ACCESS. Building access which allows use of a building during and after an emergency event.

[B] REGISTERED DESIGN PROFESSIONAL. An individual who is registered or licensed to practice their respective design profession as defined by the statutory requirements of the professional registration laws of the state or jurisdiction in which the project is to be constructed. A design by a registered design professional is not required where exempt under the registration or license laws.

SYSTEM. Primary structural, mechanical, plumbing, electrical, fire protection, or occupant service components of a building including any equipment, fixtures, connections, conduits, wires, pipes, ducts, as well as any associated sensors, controls, distribution or safety elements.

UNSAFE. See the North Carolina Administrative Code and Policies.

CHAPTER 3

COMPLIANCE METHODS

SECTION 301

COMPLIANCE METHODS

301.1 General.

The *repair, alteration, change of occupancy, addition* or relocation of all *existing buildings* shall comply with one of the methods listed in Sections 301.1.1 through 301.1.3 as selected by the applicant. Application of a method shall be the sole basis for assessing the compliance of work performed under a single permit unless otherwise approved by the *code official*. Sections 301.1.1 through 301.1.3 shall not be applied in combination with each other. Where this code requires consideration of the seismic force-resisting system of an *existing building* subject to *repair, alteration, change of occupancy, addition* or relocation of *existing buildings*, the seismic evaluation and design shall be based on Section 301.1.4 regardless of which compliance method is used.

Exception: ~~Subject to the approval of the code official,~~ Structural alterations complying with the laws in existence at the time the building or the affected portion of the building was built shall be considered in compliance with the provisions of this code unless the building is undergoing ~~more than a limited~~ a substantial structural alteration as defined in Section ~~907.4.3~~ 907.4.2. New structural members added as part of the alteration shall comply with the *International Building Code*. Alterations of existing buildings in flood hazard areas shall comply with Section 701.3. Buildings constructed prior to the existence of an applicable North Carolina State Building Code and in structurally sound condition shall be considered "complying with the laws in existence at the time the building or the affected portion of the building was built".

[B] 301.1.4 Evaluation and design procedures.

The seismic evaluation and design shall be based on the procedures specified in the *International Building Code*, ASCE 31 or ASCE 41. The procedures contained in Appendix A of this code shall be permitted to be used as specified in Section 301.1.4.2.

Exception: Seismic requirements shall not apply to Detached One- and Two Family Dwellings.

301.2 Additional codes.

Alterations, repairs, additions and changes of occupancy to, or relocation of, existing buildings and structures shall comply with the provisions for alterations, repairs, additions and changes of occupancy or relocation, respectively, in this code and the *International Energy Conservation Code*, *International Fire Code*, *International Fuel Gas Code*, *International Mechanical Code*, *International Plumbing Code*, ~~International Property Maintenance Code,~~ ~~International Private Sewage Disposal Code,~~ *International Residential Code* and *NFPA 70*. Where provisions of the other codes conflict with provisions of this code, the provisions of this code shall take precedence.

CHAPTER 4

PREScriptive COMPLIANCE METHOD

SECTION 401 GENERAL

[B] 401.2.1 Existing materials.

Materials already in use in a building in compliance with requirements or approvals in effect at the time of their erection or installation shall be permitted to remain in use unless determined by the building official to be unsafe per ~~Section 115~~ the NC Administrative Code and Policies.

SECTION 402 ADDITIONS

[B] 402.5 Smoke alarms in existing portions of a building.

Where an *addition* is made to a building or structure of a Group R or I-1 occupancy, the *existing building* shall be provided with smoke alarms in accordance with Section ~~1103.8~~ 907.2.11 of the *International Fire Code*. Smoke alarms for Group R occupancy may be radio frequency type appliances as allowed and installed by NFPA 72.

SECTION 403 ALTERATIONS

[B] 403.4 Existing structural elements carrying lateral load.

Except as permitted by Section 403.5, ~~with~~ when the *alteration* increases design lateral loads in accordance with Section 1609 or 1613 of the *International Building Code*, or where the *alteration* results in a structural irregularity as defined in ASCE 7, or where the *alteration* decreases the capacity of any existing lateral load-carrying structural element, the structure of the altered building or structure shall be shown to meet the requirements of Sections 1609 and 1613 of the *International Building Code*.

Exception: Any existing lateral load-carrying structural element whose demand-capacity ratio with the *alteration* considered is no more than 10 percent greater than its demand-capacity ratio with the *alteration* ignored shall be permitted to remain unaltered. For purposes of calculating demand-capacity ratios, the demand shall consider applicable load combinations with design lateral loads or forces in accordance with Sections 1609 and 1613 of the *International Building Code*. For purposes of this exception, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacities shall account for the cumulative effects of *additions* and *alterations* since original construction.

[B] 403.6 Smoke alarms.

Individual sleeping units and individual dwelling units in Group R and I-1 occupancies shall be provided with smoke alarms in accordance with Section ~~1403.8~~ 907.2.11 of the *International Fire Code*. Smoke alarms for Group R occupancy may be radio frequency type appliances as allowed and installed by NFPA 72.

SECTION 404 REPAIRS

[B] 404.1 General.

Buildings and structures, and parts thereof, shall be repaired in compliance with Section 401.2 and Section 404. Work on nondamaged components that is necessary for the required *repair* of damaged components shall be considered part of the *repair* and shall not be subject to the requirements for *alterations* in this chapter. Routine maintenance required by Section 401.2, ordinary repairs exempt from permit ~~in accordance with Section 105.2~~ by North Carolina statute, and abatement of wear due to normal service conditions shall not be subject to the requirements for repairs in this section.

[B] 404.2 Substantial structural damage to vertical elements of the lateral force-resisting system.

A building that has sustained *substantial structural damage* to the vertical elements of its lateral force-resisting system shall be evaluated and repaired in accordance with the applicable provisions of Sections 404.2.1 through 404.2.3.

Exceptions:

1. Buildings assigned to Seismic Design Category A, B or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.
2. Other than townhouses, structures normally regulated by the North Carolina Residential Code ~~One- and two-family dwellings~~ need not be evaluated or rehabilitated for load combinations that include earthquake effects.

[B] 404.3.1 Lateral force-resisting elements.

Regardless of the level of damage to vertical elements of the lateral force-resisting system, if *substantial structural damage* to gravity load-carrying components was caused primarily by wind or earthquake effects, then the building shall be evaluated in accordance with Section 404.2.1 and, if noncompliant, rehabilitated in accordance with Section 404.2.3.

Exceptions:

1. Other than townhouses, structures normally regulated by the North Carolina Residential Code ~~One- and two-family dwellings~~ need not be evaluated or rehabilitated for load combinations that include earthquake effects.
2. Buildings assigned to Seismic Design Category A, B or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.

SECTION 405 FIRE ESCAPES

[B] 405.1 Where permitted.

Fire escapes shall be permitted only as provided for in Sections 405.1.1 through ~~405.1.4~~ 405.1.3.

~~[B] 405.1.1 New buildings.~~

~~Fire escapes shall not constitute any part of the required means of egress in new buildings.~~

[B] ~~405.1.2~~ 405.1.1 Existing fire escapes.

Existing fire escapes shall continue to be accepted as a component in the means of egress in *existing buildings* only.

[B] ~~405.1.3~~ 405.1.2 New fire escapes.

New fire escapes for *existing buildings* shall be permitted only where exterior stairs cannot be utilized due to lot lines limiting stair size or due to the sidewalks, alleys or roads at grade level. New fire escapes shall not incorporate ladders or access by windows.

[B] ~~405.1.4~~ 405.1.3 Limitations.

Fire escapes shall comply with this section and shall not constitute more than 50 percent of the required number of exits nor more than 50 percent of the required exit capacity.

[B] 405.5 Opening protectives.

Doors and windows along the fire escape shall be protected with ~~3/4-hour~~ 45-minute opening protectives.

SECTION 406 GLASS REPLACEMENT

[B] 406.1 Conformance.

The installation or replacement of glass shall be as required for new installations.

Exception: Replacement of a glazing pane shall not require compliance with the North Carolina Energy Conservation Code, but shall have an insulation value equal to or greater than the existing glazing.

SECTION 407 CHANGE OF OCCUPANCY

[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 less ~~lesser~~ ~~hazardous-hazard~~, based on ~~life and fire risk~~ Table 407.1, 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.

[B] 407.3 Stairway.

An existing stairway shall not be required to comply with the requirements of Section 1009 of the ~~Interntional~~ International Building Code where the existing space and construction does not allow a reduction in pitch or slope.

[B] 407.4 Structural.

When a *change of occupancy* results in a structure being reclassified to a higher risk category from Table 1604.5 of the North Carolina Building Code, the structure shall conform to the seismic requirements for a new structure of the higher risk category.

Exceptions:

1. Specific seismic detailing requirements of Section 1613 of the *International Building Code* for a new structure shall not be required to be met where the seismic performance is shown to be equivalent to that of a new structure. A demonstration of equivalence shall consider the regularity, overstrength, redundancy and ductility of the structure.
2. When a change of use results in a structure being reclassified from Risk Category I or II to Risk Category III and the structure is located where the seismic coefficient, S_{DS} , is less than 0.33, compliance with the seismic requirements of Section 1613 of the *International Building Code* is not required.

407.5 Energy conservation.

Spaces undergoing a change of occupancy shall comply with Sections 101.4.4 and 101.4.5 of the North Carolina Energy Conservation Code.

SECTION 410 ACCESSIBILITY FOR EXISTING BUILDINGS

[B] 410.8.3.1 Inclined stairway chairlifts. Inclined stairway chairlifts that do not reduce the required means of egress and installed in accordance with ASME A18.1 shall be permitted as a component of an accessible route in alterations of existing occupancies in:

1. Religious organizations or entities controlled by religious organizations, including places of worship; or
2. Private clubs or establishments exempted under Title II of the Civil Rights Act of 1964.

Such inclined stairway chairlifts shall be approved for commercial use by the manufacturer and installed by approved factory trained installers.

[B] 410.8.5 Ramps.

Where slopes steeper than allowed by Section ~~1010.3~~ 1010.2 of the *International Building Code* are necessitated by space limitations, the slope of ramps in or providing access to existing facilities shall comply with Table 410.8.5.

**[B] TABLE 410.8.5
RAMPS**

SLOPE	MAXIMUM RISE
Steeper than 1:10 but not steeper than 1:8	3 inches
Steeper than 1:12 but not steeper than 1:10	6 inches

For SI: 1 inch = 25.4 mm.

[B] 410.8.8 Type A dwelling or sleeping units.

Where ~~more than 20~~ 11 or more Group R-2 dwelling or sleeping units are being altered or added, the requirements of Section 1107 of the *International Building Code* for Type A units apply only to the quantity of the spaces being altered or added.

[B] 410.9 Historic buildings. ~~These provisions~~ This Section shall apply to....

CHAPTER 5

CLASSIFICATION OF WORK

SECTION 503

ALTERATION—LEVEL 1 (Renovation)

503.1 Scope.

Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.

503.2 Application.

Level 1 *alterations* shall comply with the provisions of Chapter 7.

SECTION 504

ALTERATION—LEVEL 2 (Alteration)

504.1 Scope.

Level 2 *alterations* include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment.

504.2 Application.

Level 2 *alterations* shall comply with the provisions of Chapter 7 for Level 1 *alterations* as well as the provisions of Chapter 8.

SECTION 505

ALTERATION—LEVEL 3 (Reconstruction)

CHAPTER 6 REPAIRS

SECTION 602 BUILDING ELEMENTS AND MATERIALS

602.2 New and replacement materials.

Except as otherwise required or permitted by this code, materials permitted by the applicable code for new construction shall be used. Like materials shall be permitted ~~for repairs and alterations~~, provided no *dangerous* or *unsafe* condition, as defined in Chapter 2, is created. Hazardous materials, such as asbestos and lead-based paint, shall not be used where the code for new construction would not permit their use in buildings of similar occupancy, purpose and location.

602.4 Wind-borne debris protection.

Replacement of window units shall require compliance with Section 1609.1.2 of the North Carolina Building Code or Section R612.9 of the North Carolina Residential Code.
Replacement of individual glass panes or sashes shall not require compliance with Sections 1609.1.2 and R612.9.

SECTION 603 FIRE PROTECTION

603.1 General.

Repairs shall be done in a manner that maintains the level of fire protection ~~provided~~ that is existing.

SECTION 604 MEANS OF EGRESS

604.1 General.

Repairs shall be done in a manner that maintains the level of protection ~~provided~~ that is existing for the means of egress.

SECTION 605 ACCESSIBILITY

605.1 General.

Repairs shall be done in a manner that maintains the level of accessibility ~~provided~~ that is existing.

SECTION 606 STRUCTURAL

[B] 606.1 General.

Structural elements shall be repaired to the predamaged condition.

~~Structural repairs shall be in compliance with this section and Section 601.2. Regardless of the extent of structural or nonstructural damage, dangerous conditions shall be eliminated. Regardless of the scope of repair, new structural members and connections used for repair or rehabilitation shall comply with the detailing provisions of the International Building Code for new buildings of similar structure, purpose and location.~~

[B] 606.2 Repairs to damaged buildings.

~~Repairs to damaged buildings shall comply with this section.~~

[B] 606.2.1 Repairs for less than substantial structural damage.

~~For damage less than substantial structural damage, the damaged elements shall be permitted to be restored to their predamage condition.~~

[B] 606.2.2 Substantial structural damage to vertical elements of the lateral force-resisting system.

~~A building that has sustained substantial structural damage to the vertical elements of its lateral force-resisting system shall be evaluated in accordance with Section 606.2.2.1, and either repaired in accordance with Section 606.2.2.2 or repaired and rehabilitated in accordance with Section 606.2.2.3, depending on the results of the evaluation.~~

Exceptions:

- ~~1. Buildings assigned to Seismic Design Category A, B, or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.~~
- ~~2. Detached one- and two-family dwellings need not be evaluated or rehabilitated for load combinations that include earthquake effects.~~

[B] 606.2.2.1 Evaluation.

~~The damaged structural elements at a minimum building shall be evaluated by a registered design professional, and the evaluation findings shall be submitted to the code official. The evaluation shall establish whether the damaged structural elements building, if repaired to its predamage state, would comply with the provisions of the International Building Code for load combinations that include wind or earthquake effects, except that the seismic forces shall be the reduced IBC-level seismic forces.~~

[B] 606.2.2.2 Extent of repair for compliant buildings.

~~If the evaluation establishes that the structural element building in its predamage condition complies with the provisions of Section 606.2.2.1, then the damaged element elements shall be permitted to be restored to its their predamage condition.~~

[B] 606.2.2.3 Extent of repair for noncompliant buildings.

~~If the evaluation does not establish that the structural elements building in its predamage condition complies with the provisions of Section 606.2.2.1, then the structural elements~~

~~building shall be rehabilitated to comply with the provisions of this section. The wind loads for the *repair* and *rehabilitation* shall be those required by the building code in effect at the time of original construction, unless the damage was caused by wind, in which case the wind loads shall be in accordance with the *International Building Code*. The seismic loads for this *rehabilitation* design shall be those required by the building code in effect at the time of original construction, but not less than the reduced IBC-level seismic forces.~~

[B] 606.2.3 Substantial structural damage to gravity load-carrying components.

~~Gravity load-carrying components that have sustained *substantial structural damage due to dead or live loading* shall be rehabilitated to comply with the applicable provisions for dead and live loads in the *International Building Code*. Snow loads shall be considered if the *substantial structural damage* was caused by or related to snow load effects. Undamaged gravity load-carrying components that receive dead, live or snow loads from rehabilitated components shall also be rehabilitated if required to comply with the design loads of the *rehabilitation* design.~~

[B] 606.2.3.1 Lateral force-resisting elements.

~~Regardless of the level of damage to gravity elements of the lateral force-resisting system, if substantial structural damage to gravity load-carrying components was caused primarily by wind or seismic effects, then the building shall be evaluated in accordance with Section 606.2.2.1 and, if noncompliant, rehabilitated in accordance with Section 606.2.2.3.~~

Exceptions:

- ~~1. Buildings assigned to Seismic Design Category A, B, or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.~~
- ~~2. Detached one- and two-family dwellings need not be evaluated or rehabilitated for load combinations that include earthquake effects.~~

[B] 606.2.4 606.2 Flood hazard areas.

In *flood hazard areas*, buildings that have sustained *substantial damage* shall be brought into compliance with Section 1612 of the *International Building Code*.

SECTION 609 PLUMBING

609.1 General.

Existing plumbing systems undergoing *repair* shall not make the building less conforming than it was before the *repair* was undertaken.

609.1 609.2 Materials.

Plumbing materials and supplies shall not be used for repairs that are prohibited in the *International Plumbing Code*.

609.2 609.3 Water closet replacement.

The maximum water consumption flow rates and quantities for all replaced water closets shall be 1.6 gallons (6 L) per flushing cycle.

Exception: Blowout-design water closets [3.5 gallons (13 L) per flushing cycle].

SECTION 610
ENERGY CONSERVATION

610.1 General.

Repair of building insulation systems shall not make the building less conforming than it was before the repair was undertaken.

610.2 Materials.

Portions of walls that are part of the building thermal envelope shall be insulated in accordance with the North Carolina Energy Conservation Code when the repair requires the removal of either the interior or exterior wall membrane such that the wall cavity is exposed during the repair.

Exception: Wall cavities containing existing insulation material.

610.3 Glazing.

Repair requiring the replacement of window units shall comply with the requirements of the North Carolina Energy Conservation Code. Repair requiring the replacement of individual glass panes or sashes shall not require compliance with the U-value requirements of the North Carolina Energy Conservation Code.

Exception: Historic structures where compliance with the North Carolina Energy Code would conflict with the historic nature of the structure are not required to comply with the North Carolina Energy Code but shall have an U-value equal to or greater than the existing glazing.

CHAPTER 7

ALTERATIONS—LEVEL 1

(Former Rehab Code designation - Renovation)

SECTION 703 FIRE PROTECTION

703.1 General.

Alterations shall be done in a manner that maintains the level of fire protection ~~provided~~ that is existing.

SECTION 704 MEANS OF EGRESS

704.1 General.

Alterations shall be done in a manner that maintains the level of protection ~~provided~~ that is existing for the means of egress.

SECTION 705 ACCESSIBILITY (Deleted)

~~705.1 General.~~

~~A facility that is altered shall comply with the applicable provisions in Sections 705.1.1 through 705.1.14, and Chapter 11 of the International Building Code unless it is technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent that is technically feasible.~~

~~A facility that is constructed or altered to be accessible shall be maintained accessible during occupancy.~~

~~Exceptions:~~

- ~~1. The altered element or space is not required to be on an accessible route unless required by Section 705.2.~~
- ~~2. Accessible means of egress required by Chapter 10 of the International Building Code are not required to be provided in existing facilities.~~
- ~~3. Type B dwelling or sleeping units required by Section 1107 of the International Building Code are not required to be provided in existing facilities undergoing less than a Level 3 alteration.~~

4. ~~The alteration to Type A individually owned dwelling units within a Group R-2 occupancy shall meet the provisions for Type B dwelling units.~~

705.1.1 Entrances.

~~Where an alteration includes alterations to an entrance, and the facility has an accessible entrance on an accessible route, the altered entrance is not required to be accessible unless required by Section 705.2. Signs complying with Section 1110 of the *International Building Code* shall be provided.~~

705.1.2 Elevators.

~~Altered elements of existing elevators shall comply with ASME A17.1/CSA B44 and ICC A117.1. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.~~

705.1.3 Platform lifts.

~~Platform (wheelchair) lifts complying with ICC A117.1 and installed in accordance with ASME A18.1 shall be permitted as a component of an accessible route.~~

705.1.4 Ramps.

~~Where steeper slopes than allowed by Section 1010.3 of the *International Building Code* are necessitated by space limitations, the slope of ramps in or providing access to existing facilities shall comply with Table 705.1.4.~~

**TABLE 705.1.4
RAMPS**

SLOPE	MAXIMUM-RISE
Steeper than 1:10 but not steeper than 1:8	3 inches
Steeper than 1:12 but not steeper than 1:10	6 inches

For SI: 1 inch = 25.4 mm.

705.1.5 Dining areas.

~~An accessible route to raised or sunken dining areas or to outdoor seating areas is not required provided that the same services and decor are provided in an accessible space usable by any occupant and not restricted to use by people with a disability.~~

705.1.6 Performance areas.

~~Where it is *technically infeasible* to alter performance areas to be on an accessible route, at least one of each type of performance area shall be made accessible.~~

705.1.7 Jury boxes and witness stands.

~~In alterations, accessible wheelchair spaces are not required to be located within the defined area of raised jury boxes or witness stands and shall be permitted to be located outside these spaces where ramp or lift access poses a hazard by restricting or projecting into a required means of egress.~~

~~705.1.8 Accessible dwelling or sleeping units.~~

~~Where Group I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being altered, the requirements of Section 1107 of the *International Building Code* for accessible units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being altered.~~

~~705.1.9 Type A dwelling or sleeping units.~~

~~Where more than 20 Group R-2 dwelling or sleeping units are being altered, the requirements of Section 1107 of the *International Building Code* for Type A units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being altered.~~

~~705.1.10 Toilet rooms.~~

~~Where it is technically infeasible to alter existing toilet and bathing rooms to be accessible, an accessible family or assisted-use toilet or bathing room constructed in accordance with Section 1109.2.1 of the *International Building Code* is permitted. The family or assisted-use toilet or bathing room shall be located on the same floor and in the same area as the existing toilet or bathing rooms.~~

~~705.1.11 Dressing, fitting and locker rooms.~~

~~Where it is *technically infeasible* to provide accessible dressing, fitting, or locker rooms at the same location as similar types of rooms, one accessible room on the same level shall be provided. Where separate sex facilities are provided, accessible rooms for each sex shall be provided. Separate sex facilities are not required where only unisex rooms are provided.~~

~~705.1.12 Fuel dispensers.~~

~~Operable parts of replacement fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.~~

~~705.1.13 Thresholds.~~

~~The maximum height of thresholds at doorways shall be $\frac{3}{4}$ inch (19.1 mm). Such thresholds shall have beveled edges on each side.~~

~~705.1.14 Extent of application.~~

~~An *alteration* of an existing element, space, or area of a *facility* shall not impose a requirement for greater accessibility than that which would be required for new construction. *Alterations* shall not reduce or have the effect of reducing accessibility of a *facility* or portion of a *facility*.~~

~~705.2 Alterations affecting an area containing a primary function.~~

~~Where an *alteration* affects the accessibility to a, or contains an area of, *primary function*, the route to the *primary function* area shall be accessible. The accessible route to the *primary function* area shall include toilet facilities or drinking fountains serving the area of *primary function*.~~

~~Exceptions:~~

- ~~1.—The costs of providing the accessible route are not required to exceed 20 percent of the costs of the alterations affecting the area of *primary function*.~~

- ~~2. This provision does not apply to alterations limited solely to windows, hardware, operating controls, electrical outlets and signs.~~
- ~~3. This provision does not apply to alterations limited solely to mechanical systems, electrical systems, installation or alteration of fire protection systems and abatement of hazardous materials.~~
- ~~4. This provision does not apply to alterations undertaken for the primary purpose of increasing the accessibility of a facility.~~
- ~~5. This provision does not apply to altered areas limited to Type B dwelling and sleeping units.~~

SECTION 706 STRUCTURAL

[B] 706.3.2 Roof diaphragms resisting wind loads in high-wind regions. (deleted)

~~Where roofing materials are removed from more than 50 percent of the roof diaphragm or section of a building located where the basic wind speed is greater than 90 mph or in a special wind region, as defined in Section 1609 of the *International Building Code*, roof diaphragms, connections of the roof diaphragm to roof framing members, and roof-to-wall connections shall be evaluated for the wind loads specified in the *International Building Code*, including wind uplift. If the diaphragms and connections in their current condition are not capable of resisting at least 75 percent of those wind loads, they shall be replaced or strengthened in accordance with the loads specified in the *International Building Code*.~~

SECTION 707 ENERGY CONSERVATION

707.1 Minimum requirements. Level 1 *alterations* to existing buildings or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the *International Energy Conservation Code* or *International Residential Code*. The *alterations* shall conform to the energy requirements of the *International Energy Conservation Code* or *International Residential Code* ~~as they relate to new construction only.~~

CHAPTER 8

ALTERATIONS—LEVEL 2

(Former Rehab Code designation - Alteration)

SECTION 801 GENERAL

801.1 Scope.

Level 2 *alterations* as described in Section 504 shall comply with the requirements of this chapter.

Exception: ~~(Deleted) Buildings in which the reconfiguration is exclusively the result of compliance with the accessibility requirements of Section 705.2 shall be permitted to comply with Chapter 7.~~

SECTION 802 SPECIAL USE AND OCCUPANCY

802.2 Paint shops.

Paint shops, not classified as Group H, located in occupancies other than Group F shall be 1-hour separated from the remainder of the building with fire barriers or provided with an automatic fire-extinguishing system.

802.3 Waste and soiled linen collection rooms.

Waste and soiled linen collection rooms over 100 square feet shall be 1-hour separated from the remainder of the building with fire barriers or provided with an automatic fire-extinguishing system.

802.4 Chute termination rooms.

Chute termination rooms shall be 1-hour separated from the remainder of the building with fire barriers or provided with an automatic fire-extinguishing system.

802.5 Incinerator rooms.

Incinerator rooms shall be 2-hour separated from the remainder of the building with fire barriers and provided with an automatic sprinkler system.

802.6 Group I-2 and I-3.

In Group I-2 and I-3, physical plant maintenance shops, laundries over 100 square feet, and padded cells shall be 1-hour separated from the remainder of the building with fire barriers or provided with an automatic sprinkler system.

SECTION 803 BUILDING ELEMENTS AND MATERIALS

803.2.1 Existing vertical openings.

All existing interior vertical openings connecting two or more floors shall be enclosed with approved assemblies having a fire-resistance rating of not less than 1 hour with approved opening protectives.

Exceptions:

1. Vertical opening enclosure is not required where the vertical opening enclosure meets the code requirements under which the building was constructed ~~or~~ previously altered.

- ~~12.~~ Where vertical opening enclosure is not required by the *International Building Code* or the *International Fire Code*.

- ~~23.~~ Interior vertical openings other than stairways may be blocked at the floor and ceiling of the *work area* by installation of not less than 2 inches (51 mm) of solid wood or equivalent construction.

- ~~34.~~ The enclosure shall not be required where:

~~3.1.~~ 4.1. Connecting the main floor and mezzanines; or

~~3.2.~~ 4.2. All of the following conditions are met:

~~3.2.1.~~ 4.2.1. The communicating area has a low hazard occupancy or has a moderate hazard occupancy that is protected throughout by an automatic sprinkler system.

~~3.2.2.~~ 4.2.2. The lowest or next to the lowest level is a street floor.

~~3.2.3.~~ 4.2.3. The entire area is open and unobstructed in a manner such that it may be assumed that a fire in any part of the interconnected spaces will be readily obvious to all of the occupants.

~~3.2.4.~~ 4.2.4. Exit capacity is sufficient to provide egress simultaneously for all occupants of all levels by considering all areas to be a single floor area for the determination of required exit capacity.

~~3.2.5.~~ 4.2.5. Each floor level, considered separately, has at least one-half of its individual required exit capacity provided by an exit or exits leading directly out of that level without having to traverse another communicating floor level or be exposed to the smoke or fire spreading from another communicating floor level.

~~4.~~ 5. In Group A occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories.

~~5.~~ 6. In Group B occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure, or the enclosure specified in Section 803.2.1, shall not be required in the following locations:

~~5.1.~~ 6.1. Buildings not exceeding 3,000 square feet (279 m²) per floor.

~~5.2.~~ 6.2. Buildings protected throughout by an approved automatic fire sprinkler system.

~~6.~~ 7. In Group E occupancies, the enclosure shall not be required for vertical openings not exceeding three stories when the building is protected throughout by an approved automatic fire sprinkler system.

~~7.~~ 8. In Group F occupancies, the enclosure shall not be required in the following locations:

~~7.1.~~ 8.1. Vertical openings not exceeding three stories.

~~7.2.~~ 8.2. Special purpose occupancies where necessary for manufacturing operations and direct access is provided to at least one protected stairway.

~~7.3.~~ 8.3. Buildings protected throughout by an approved automatic sprinkler system.

~~8.~~ 9. In Group H occupancies, the enclosure shall not be required for vertical openings not exceeding three stories where necessary for manufacturing operations and every floor level has direct access to at least two remote enclosed stairways or other approved exits.

10. In Group I-3 occupancies the vertical opening protection may be omitted if either of the following conditions is met:

10.1 The building is in compliance with NFPA 101, Chapter 15; or

10.2 The building is equipped throughout with an automatic fire suppression system.

~~9.~~ 11. In Group M occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure, or the enclosure specified in Section 803.2.1, shall not be required in the following locations:

~~9.1.~~ 11.1. Openings connecting only two floor levels.

- ~~9.2.~~ 11.2. Occupancies protected throughout by an approved automatic sprinkler system.
- ~~40.~~ 12. In Group R-1 occupancies, the enclosure shall not be required for vertical openings not exceeding three stories in the following locations:
- ~~40.1.~~ 12.1. Buildings protected throughout by an approved automatic sprinkler system.
- ~~40.2.~~ 12.2. Buildings with less than 25 dwelling units or sleeping units where every sleeping room above the second floor is provided with direct access to a fire escape or other approved second exit by means of an approved exterior door or window having a sill height of not greater than 44 inches (1118 mm) and where:
- ~~40.2.1.~~ 12.2.1. Any exit access corridor exceeding 8 feet (2438 mm) in length that serves two means of egress, one of which is an unprotected vertical opening, shall have at least one of the means of egress separated from the vertical opening by a 1-hour fire barrier; and
- ~~40.2.2.~~ 12.2.2. The building is protected throughout by an automatic fire alarm system, installed and supervised in accordance with the *International Building Code*.
- ~~44.~~ 13. In Group R-2 occupancies, a minimum 30-minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure, or the enclosure specified in Section 803.2.1, shall not be required in the following locations:
- ~~44.1.~~ 13.1. Vertical openings not exceeding two stories with not more than four dwelling units per floor.
- ~~44.2.~~ 13.2. Buildings protected throughout by an approved automatic sprinkler system.
- ~~44.3.~~ 13.3. Buildings with not more than four dwelling units per floor where every sleeping room above the second floor is provided with direct access to a fire escape or other approved second exit by means of an approved exterior door or window having a sill height of not greater than 44 inches (1118 mm) and the building is protected throughout by an automatic fire alarm system complying with Section 804.4.
- ~~42.~~ 14. One- and two-family dwellings.
- ~~43.~~ 15. Group S occupancies where connecting not more than two floor levels or where connecting not more than three floor levels and the structure is equipped throughout with an approved automatic sprinkler system.

- ~~14.~~ 16. Group S occupancies where vertical opening protection is not required for open parking garages and ramps.

803.6 Fireblocking and Draftstopping.

When the work being performed exposes the framing of any wall, floor, ceiling or roof, the exposed framing shall comply with Section 717 of the North Carolina Building Code.

Exception: One- and two-family dwellings shall comply with Sections R302.11 and R302.12 of the North Carolina Residential Code.

803.7 Group R mixed use separation.

Any nonresidential occupancy that is located directly below Group R shall be 1-hour separated from the Group R occupancy. The 1-hour assembly is only required to be rated from the nonresidential side.

Exception: If the work area of the nonresidential occupancy is less than 50% of the gross floor area of the nonresidential occupancy Section 803.7 shall not apply.

SECTION 804 FIRE PROTECTION

804.2 Automatic sprinkler systems.

Automatic sprinkler systems shall be provided in accordance with the requirements of Sections 804.2.1 through 804.2.3 ~~804.2.5~~. Installation requirements shall be in accordance with the *International Building Code*.

804.2.1 High-rise buildings.

See Section 101.10.

~~In high-rise buildings, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection in the entire work area where the work area is located on a floor that has a sufficient sprinkler water supply system from an existing standpipe or a sprinkler riser serving that floor.~~

~~**804.2.1.1 Supplemental automatic sprinkler system requirements.**~~

~~Where the work area on any floor exceeds 50 percent of that floor area, Section 804.2.1 shall apply to the entire floor on which the work area is located.~~

~~**Exception:** Tenant spaces that are entirely outside the work area.~~

804.2.2 Low-rise buildings.

Work areas that increase the fire area or calculated occupant load above the limits listed in Sections 903.2.1 through 903.2.10 of the *International Building Code* shall meet the requirements of those sections.

~~**804.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2.**~~

~~In buildings with occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where all of the following conditions occur:~~

~~1. The work area is required to be provided with automatic sprinkler protection in accordance with the *International Building Code* as applicable to new construction; and~~

~~2. The work area exceeds 50 percent of the floor area.~~

~~**Exception:** If the building does not have sufficient municipal water supply for design of a fire sprinkler system available to the floor without installation of a new fire pump, work areas shall be protected by an automatic smoke detection system throughout all occupiable spaces other than sleeping units or individual dwelling units that activates the occupant notification system in accordance with Sections 907.4, 907.5 and 907.6 of the *International Building Code*.~~

~~**804.2.2.1 Mixed uses.**~~

~~In work areas containing mixed uses, one or more of which requires automatic sprinkler protection in accordance with Section 804.2.2, such protection shall not be required throughout the work area provided that the uses requiring such protection are separated from those not requiring protection by fire-resistance-rated construction having a minimum 2-hour rating for Group H and a minimum 1-hour rating for all other occupancy groups.~~

804.2.3 Windowless stories.

~~Work located in a windowless story, as determined in accordance with the *International Building Code*, shall be sprinklered where the work area is required to be sprinklered under the provisions of the *International Building Code* for newly constructed buildings and the building has a sufficient municipal water supply without installation of a new fire pump.~~

In all buildings, any windowless story located below the seventh story above grade which is created by the work being performed or any existing windowless story located below the seventh story in which the work area exceeds 50 percent of the gross enclosed floor area of the windowless story, shall be equipped throughout with an automatic fire suppression system installed in accordance with Section 903.2.11.1 of the *International Fire Prevention Code*.

Exceptions:

1. Stories or basement shall not be considered windowless where fire fighter access through openings meeting all of the following is provided:
 - 1.1. Openings such as a doors, windows, or access panels are located on at least one side of the story or basement;
 - 1.2. The openings on each story or basement shall be a minimum of 32 inches by 48 inches in size and located horizontally a maximum of 100 feet apart or 22 inches by 42 inches in size and located horizontally a maximum of 30 feet apart;
 - 1.3. Openings shall be unobstructed to allow firefighting and rescue operations from the exterior;
 - 1.4. Openings in stories above grade shall have a sill height of not more than 36 inches measured from the finished floor level. Openings in basements shall have no sill height restrictions;
 - 1.5. Openings shall be readily identifiable and openable from the outside; and

- 1.6. Where openings are ~~provided only~~ on one wall of a story or basement the maximum distance to the opposite wall is 75 feet.
2. Windowless basements 3,000 gross square feet or less in area shall not require automatic fire suppression when a supervised automatic fire alarm is provided in accordance with Section 907 of the North Carolina Fire Prevention Code.
3. Windowless basements greater than 3,000 but less than 10,000 gross square feet shall be permitted to connect to the domestic water supply when all of the following conditions are met:
 - 3.1. The automatic fire suppression system shall be provided with a fire department connection, which shall be marked with a sign reading "Basement Area Sprinkler Water Supply" and
 - 3.2. A supervised automatic fire alarm system shall be installed in accordance with Section 907 of the *International Fire Prevention Code*.

804.2.4 Supervision.

All newly installed complete or partial sprinkler systems shall comply with Section 903.4 of the *International Building Code*.

Exception: Supervision is not required for the following:

1. Underground gate valve with roadway boxes.
2. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic and automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided.

804.2.5 Group H.

An automatic sprinkler system shall be installed in all Group H occupancies complying with Section 903.2.5 of the *International Building Code*.

~~804.2.4 Other required automatic sprinkler systems.~~

~~In buildings and areas listed in Table 903.2.11.6 of the *International Building Code*, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with an automatic sprinkler system under the following conditions:~~

- ~~1. The work area is required to be provided with an automatic sprinkler system in accordance with the *International Building Code* applicable to new construction; and~~
- ~~2. The building has sufficient municipal water supply for design of an automatic sprinkler system available to the floor without installation of a new fire pump.~~

~~804.2.5 Supervision.~~

~~Fire sprinkler systems required by this section shall be supervised by one of the following methods:~~

- ~~1. Approved central station system in accordance with NFPA 72;~~
- ~~2. Approved proprietary system in accordance with NFPA 72;~~

- ~~3. Approved remote station system of the jurisdiction in accordance with NFPA 72; or~~
- ~~4. When approved by the code official, approved local alarm service that will cause the sounding of an alarm in accordance with NFPA 72.~~

Exception: Supervision is not required for the following:

- ~~1. Underground gate valve with roadway boxes.~~
- ~~2. Halogenated extinguishing systems.~~
- ~~3. Carbon dioxide extinguishing systems.~~
- ~~4. Dry and wet chemical extinguishing systems.~~
- ~~5. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic and automatic sprinkler systems and a separate shutoff valve for the automatic sprinkler system is not provided.~~

804.3 Standpipes. Deleted.

~~Where the work area includes exits or corridors shared by more than one tenant and is located more than 50 feet (15 240 mm) above or below the lowest level of fire department access, a standpipe system shall be provided. Standpipes shall have an approved fire department connection with hose connections at each floor level above or below the lowest level of fire department access. Standpipe systems shall be installed in accordance with the *International Building Code*.~~

Exceptions:

- ~~1. No pump shall be required provided that the standpipes are capable of accepting delivery by fire department apparatus of a minimum of 250 gallons per minute (gpm) at 65 pounds per square inch (psi) (946 L/m at 448KPa) to the topmost floor in buildings equipped throughout with an automatic sprinkler system or a minimum of 500 gpm at 65 psi (1892 L/m at 448KPa) to the topmost floor in all other buildings. Where the standpipe terminates below the topmost floor, the standpipe shall be designed to meet (gpm/psi) (L/m/KPa) requirements of this exception for possible future extension of the standpipe.~~
- ~~2. The interconnection of multiple standpipe risers shall not be required.~~

804.4 Fire alarm and detection.

Work areas shall meet the requirements of Sections 907.2.1 through 907.2.23 of the *North Carolina Fire Prevention Code* and Section 804.4.3. For one- and two-family dwellings and townhouses an An approved fire alarm system shall be installed in accordance with Sections 804.4.1 through 804.4.2. ~~804.4.3. Where automatic sprinkler protection is provided in accordance with Section 804.2 and is connected to the building fire alarm system, automatic heat detection shall not be required.~~

Exception:

Buildings other than one- and two-family dwellings that do not have an existing fire alarm and detection system are not required to install a fire alarm and detection system.

~~An approved automatic fire detection system shall be installed in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances, and equipment shall be approved. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms, where products of combustion are present during normal operation in sufficient quantity to actuate a smoke detector.~~

804.4.1 Occupancy requirements.

~~A fire alarm system shall be installed in accordance with Sections 804.4.1.1 through 804.4.1.7. Existing alarm-notification appliances shall be automatically activated throughout the building. Where the building is not equipped with a fire alarm system, alarm-notification appliances within the work area shall be provided and automatically activated.~~

Exceptions:

- ~~1. Occupancies with an existing, previously approved fire alarm system.~~
- ~~2. Where selective notification is permitted, alarm-notification appliances shall be automatically activated in the areas selected.~~

804.4.1.1 Group E.

~~A fire alarm system shall be installed in work areas of Group E occupancies as required by the *International Fire Code* for existing Group E occupancies.~~

804.4.1.2 Group I-1.

~~A fire alarm system shall be installed in work areas of Group I-1 residential care/assisted living facilities as required by the *International Fire Code* for existing Group I-1 occupancies.~~

804.4.1.3 Group I-2.

~~A fire alarm system shall be installed in work areas of Group I-2 occupancies as required by the *International Fire Code* for existing Group I-2 occupancies.~~

804.4.1.4 Group I-3.

~~A fire alarm system shall be installed in work areas of Group I-3 occupancies as required by the *International Fire Code* for existing Group I-3 occupancies.~~

804.4.1.5 Group R-1.

~~A fire alarm system shall be installed in Group R-1 occupancies as required by the *International Fire Code* for existing Group R-1 occupancies.~~

804.4.1.6 Group R-2.

~~A fire alarm system shall be installed in work areas of Group R-2 apartment buildings as required by the *International Fire Code* for existing Group R-2 occupancies.~~

804.4.1.7 Group R-4.

~~A fire alarm system shall be installed in work areas of Group R-4 residential care/assisted living facilities as required by the *International Fire Code* for existing Group R-4 occupancies.~~

804.4.2 Supplemental fire alarm system requirements.

~~Where the work area on any floor exceeds 50 percent of that floor area, Section 804.4.1 shall apply throughout the floor.~~

~~**Exception:** Alarm-initiating and notification appliances shall not be required to be installed in tenant spaces outside of the work area.~~

804.4.3 804.4.1 Smoke alarms for detached one- and two-family dwellings and townhouses.

~~Individual sleeping units and individual dwelling units in any work area in Group R and I-1 occupancies shall be provided with smoke alarms in accordance with the *International Fire Code*.~~

~~**Exception:** Interconnection of smoke alarms outside of the work area shall not be required.~~

Detached one- and two-family dwellings and townhouses shall be provided with smoke alarms in accordance with Sections 804.4.1.1 through 804.4.1.4.

Exceptions:

1. Work involving the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck, are exempt from the requirement
2. Installation, alteration or repairs of plumbing or mechanical systems are exempt from the requirements of this section.

804.4.1.1. Smoke detection and notification.

All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.

804.4.1.2. Smoke detection systems.

Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with NFPA 72.

Exception: Where smoke alarms are provided meeting the requirements of Section 804.4.1.4.

804.4.1.3. Location.

Smoke alarms shall be installed in the following locations:

1. In each sleeping room.
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.
3. On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

804.4.1.4. Power source.

Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.

Exceptions:

1. Smoke alarms shall be permitted to be battery operated when installed in buildings without commercial power.
2. Interconnection and hard-wiring of smoke alarms in existing areas shall not be required where the alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing the structure. Smoke alarm locations are required per Section R314.2 of the NC Residential Code, but may be battery powered and shall be designed to emit a recurring signal when batteries are low and need to be replaced.

804.4.2 Carbon monoxide alarms for detached one- and two-family dwellings and townhouses.

Detached one- and two family dwelling and townhouses requiring a permit for interior work or the replacement or addition of a fuel-fired appliance shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s).

804.4.2.1 Alarm requirements.

The required carbon monoxide alarms shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

804.4.3 Smoke Detection Group R mixed use.

Any nonresidential occupancy work area located directly below Group R shall be provided with single or multi station smoke detectors complying with NFPA 72 and shall provide an audible alarm in each dwelling unit located on floors above the nonresidential work area. The detectors shall be AC powered with battery backup.

Exceptions:

1. Hardwired, interconnected smoke detectors installed throughout the building shall be accepted as complying with Section 804.4.3.
2. If the work area of the nonresidential occupancy is less than 50% of the gross floor area of the nonresidential occupancy Section 804.4.3 shall not apply.

SECTION 805 MEANS OF EGRESS

805.2.1 Means of egress capacity. The capacity of the means of egress in each work area shall be sufficient for the maximum permitted occupant load of the work area and any adjacent spaces served by that means of egress as calculated on a per floor basis. Means of egress shall be measured in units of exit width of 22 inches. The maximum permitted occupant load of a space shall be determined by the capacity of the means of egress serving the space as calculated in accordance with Table 805.2.1. The building owner shall have the option of establishing a reasonable restriction on the occupant load of the space based on the existing capacity of the means of egress or of providing additional egress capacity.

TABLE 805.2.1^{a,b}
CAPACITY PER UNIT OF EGRESS WIDTH

<u>Use Group</u>	<u>Number of Occupants</u>			
	<u>Without Fire Suppression</u>		<u>With Fire Suppression</u>	
	<u>Stairways</u>	<u>Doors, Ramps, and Corridors</u>	<u>Stairways</u>	<u>Doors, Ramps, and Corridors</u>
<u>A^c</u>	<u>75</u>	<u>100</u>	<u>113</u>	<u>150</u>
<u>B</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>150</u>
<u>E</u>	<u>75</u>	<u>100</u>	<u>113</u>	<u>150</u>
<u>F</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>150</u>
<u>H</u>	<u>NA</u>	<u>NA</u>	<u>60</u>	<u>100</u>
<u>I-1</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>100</u>
<u>I-2</u>	<u>22</u>	<u>30</u>	<u>35</u>	<u>45</u>
<u>I-3</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>150</u>
<u>M</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>150</u>
<u>R</u>	<u>75</u>	<u>100</u>	<u>113</u>	<u>150</u>
<u>S</u>	<u>60</u>	<u>100</u>	<u>90</u>	<u>150</u>

Unit of egress width = 22 inches

NA = Not Allowed

- a. The occupant load may be equal to the total number of occupants for which exit capacity is provided as determined by Table 805.2.1 above.

- b. Interpolation shall be allowed in determining capacity of egress width.
- c. For Use Group A occupancies, the resulting total occupant load shall not exceed one occupant per five square feet of net floor area over the entire use.

805.3.1.1 Single-exit buildings.

Only one exit is required from buildings and spaces of the following occupancies:

1. In Group A, B, E, F, M, U and S occupancies, a single exit is permitted in the story at the level of exit discharge when the occupant load of the story does not exceed ~~50~~ 49 and the exit access travel distance does not exceed 75 feet (22 860 mm).
Exception: Licensed Group E adult and child day care occupancies shall have a minimum of two exits. Rooms where occupants receive care are on the level of exit discharge and each of these rooms has an exit door directly to the exterior may have a single exit.
2. Group B, F-2, and S-2 occupancies not more than two stories in height that are not greater than 3,500 square feet per floor (326 m²), when the exit access travel distance does not exceed 75 feet (22 860 mm). The minimum fire-resistance rating of the exit enclosure and of the opening protection shall be 1 hour.
3. Open parking structures where vehicles are mechanically parked.
4. In community residences for the developmentally disabled, the maximum occupant load excluding staff is 12.
5. Groups R-1 and R-2 not more than two stories in height, when there are not more than four dwelling units per floor and the exit access travel distance does not exceed 50 feet (15 240 mm). The minimum fire-resistance rating of the exit enclosure and of the opening protection shall be 1 hour.
6. In multilevel dwelling units in buildings of occupancy Group R-1 or R-2, an exit shall not be required from every level of the dwelling unit provided that one of the following conditions is met:
 - 6.1. The travel distance within the dwelling unit does not exceed 75 feet (22 860 mm); or
 - 6.2. The building is not more than three stories in height and all third-floor space is part of one or more dwelling units located in part on the second floor; and no habitable room within any such dwelling unit shall have a travel distance that exceeds 50 feet (15 240 mm) from the outside of the habitable room entrance door to the inside of the entrance door to the dwelling unit.
7. In Group R-2, H-4, H-5 and I occupancies and in rooming boarding houses and child care centers, a single exit is permitted in a one-story building with a maximum occupant load of 10 and the exit access travel distance does not exceed 75 feet (22 860 mm).

8. In buildings of Group R-2 occupancy that are equipped throughout with an automatic fire sprinkler system, a single exit shall be permitted from a basement or story below grade if every dwelling unit on that floor is equipped with an approved window providing a clear opening of at least 5 square feet (0.47 m^2) in area, a minimum net clear opening of 24 inches (610 mm) in height and 20 inches (508 mm) in width, and a sill height of not more than 44 inches (1118 mm) above the finished floor.
9. In buildings of Group R-2 occupancy of any height with not more than four dwelling units per floor; with a smokeproof enclosure or outside stair as an exit; and with such exit located within 20 feet (6096 mm) of travel to the entrance doors to all dwelling units served thereby.
10. In buildings of Group R-3 occupancy equipped throughout with an automatic fire sprinkler system, only one exit shall be required from basements or stories below grade.
11. Licensed Group R-4 adult and child day care rooms where occupants receive care and that meet all of the following shall have a minimum of one means of egress:

11.1 Located on the level of exit discharge, and

11.2 The egress door discharges directly to the exterior.

805.3.1.2.1 Fire escape access and details.

Fire escapes shall comply with all of the following requirements:

1. Occupants shall have unobstructed access to the fire escape without having to pass through a room subject to locking.
2. Access to a new fire escape shall be through a door, except that windows shall be permitted to provide access from single dwelling units or sleeping units in Group R-1, R-2 and I-1 occupancies or to provide access from spaces having a maximum occupant load of 10 in other occupancy classifications.
 - 2.1. The window shall have a minimum net clear opening of 5.7 square feet (0.53 m^2) or 5 square feet (0.46 m^2) where located at grade.
 - 2.2. The minimum net clear opening height shall be 24 inches (610 mm) and net clear opening width shall be 20 inches (508 mm).
 - 2.3. The bottom of the clear opening shall not be greater than 44 inches (1118 mm) above the floor.
 - 2.4. The operation of the window shall comply with the operational constraints of the *International Building Code*.

3. Newly constructed fire escapes shall be permitted only where exterior stairs cannot be utilized because of lot lines limiting the stair size or because of the sidewalks, alleys, or roads at grade level.
4. Openings within 10 feet (3048 mm) of fire escape stairs shall be protected by fire assemblies having minimum $\frac{3}{4}$ -hour fire-resistance ratings.

Exception: Opening protection shall not be required in buildings equipped throughout with an approved automatic sprinkler system.

5. In all buildings of Group E occupancy, up to and including the 12th grade, buildings of Group I occupancy, ~~rooming~~ boarding houses and childcare centers, ladders of any type are prohibited on fire escapes used as a required means of egress.

805.3.2 Mezzanines.

Mezzanines in the *work area* and with an occupant load of more than ~~50~~ 49 or in which the travel distance to an exit exceeds 75 feet (22 860 mm) shall have access to at least two independent means of egress.

Exception: Two independent means of egress are not required where the travel distance to an exit does not exceed 100 feet (30 480 mm) and the building is protected throughout with an automatic sprinkler system.

805.3.3 Main entrance—Group A.

Where the main entrance is included in the alteration ~~All~~ buildings of Group A with an occupant load of 300 or more shall be provided with a main entrance capable of serving as the main exit with an egress capacity of at least one-half of the total occupant load. The remaining exits shall be capable of providing one-half of the total required exit capacity.

Exception: Where there is no well-defined main exit or where multiple main exits are provided, exits shall be permitted to be distributed around the perimeter of the building provided that the total width of egress is not less than 100 percent of the required width.

805.4.1 Two egress doorways required.

Work areas shall be provided with two egress doorways in accordance with the requirements of Sections 805.4.1.1 ~~and 805.4.1.2~~ through 805.4.1.3.

805.4.1.1 Occupant load and travel distance.

In any *work area*, all rooms and spaces having an occupant load ~~greater than~~ of 50 or more in which the travel distance to an exit exceeds 75 feet (22 860 mm) shall have a minimum of two egress doorways.

Exceptions:

1. Storage rooms having a maximum occupant load of 10.
2. Where the *work area* is served by a single exit in accordance with Section 805.3.1.1.

3. The occupant load of the space may be restricted to comply with North Carolina Building Code, Sections 1015, 1018, and 1021. Signage indicating the allowed quantity of occupants shall be permanently mounted in the building at a location approved by the local fire marshal.

805.4.1.2 Group I-2.

In buildings of Group I-2 occupancy, any patient sleeping room or suite of patient rooms greater than 1,000 square feet (93 m²) within the *work area* shall have a minimum of two egress doorways.

805.4.1.3 Group E Licensed Adult and Child Day Care.

Group E and R-4 adult and child day care facilities shall have two means of egress. Rooms where occupants receive care and that meet all of the following shall have a minimum of one means of egress:

1. Located on the level of exit discharge.
2. The egress door discharges directly to the exterior.

805.4.2 Door swing. In the *work area* and in the egress path from any *work area* to the exit discharge, all egress doors serving an occupant load ~~greater than~~ of 50 or more shall swing in the direction of exit travel.

805.4.4.1 Supplemental requirements for panic hardware. (Deleted)

~~Where the work area exceeds 50 percent of the floor area, panic hardware shall comply with Section 805.4.4 throughout the floor.~~

~~**Exception:** Means of egress within a tenant space that is entirely outside the work area.~~

805.4.5 Emergency power source in ~~Group I-3~~ Groups I-2 and I-3.

Work areas in buildings of Groups I-2 and I-3 occupancies ~~Group I-3 occupancy~~ having remote power unlocking capability for more than 10 locks shall be provided with an emergency power source for such locks. Power shall be arranged to operate automatically upon failure of normal power within 10 seconds and for a duration of not less than 1 hour.

805.4.6 Group I-2 Locks and Latches.

Remote locking shall comply with Section 407.10 of the NC Building Code.

805.11 Emergency Escape and Rescue Openings.

When the work being performed creates a bedroom below the fourth floor in a Group R occupancy, at least one sleeping room window or exterior door shall comply with Section 805.11.1 through 805.11.3.

Exception: Emergency escape and rescue openings are not required to comply with this section where the sleeping room is provided with a door to a corridor having access to two remote exits or in a building equipped throughout with an automatic fire suppression system.

805.11.1 Operation.

Emergency escape and rescue openings shall be operational from the inside without the use of keys or tools.

805.11.2 Sill height.

The opening shall have a sill height not greater than 44 inches measured from the floor.

805.11.3 Minimum size.

The minimum net clear opening shall be 5.7 square feet. The minimum net clear opening width shall be 20 inches. The minimum net clear opening height shall be 24 inches. The clear opening dimensions shall be the result of normal operation of the opening.

SECTION 806 ACCESSIBILITY

806.1 General.

~~A building, facility, or element that is altered shall comply with this section and Section 705.~~

A facility that is altered shall comply with the applicable provisions in Sections 806.1.1 through 806.1.14, 806.2 through 806.6, and Chapter 11 of the *International Building Code* unless it is *technically infeasible*. Where compliance with this section is *technically infeasible*, the alteration shall provide access to the maximum extent that is technically feasible.

A facility that is constructed or altered to be accessible shall be maintained accessible during occupancy.

Exceptions:

1. The altered element or space is not required to be on an accessible route unless required by Section 806.2.
2. Accessible means of egress required by Chapter 10 of the *International Building Code* are not required to be provided in existing facilities.
3. Type B dwelling or sleeping units required by Section 1107 of the *International Building Code* are not required to be provided in existing facilities undergoing less than a Level 3 alteration.
4. The alteration to Type A individually owned dwelling units within a Group R-2 occupancy shall meet the provisions for Type B dwelling units.
5. Accessibility improvements outside the work area are not required unless required by Section 806.2.

806.1.1 Entrances.

Where an alteration includes alterations to an entrance, and the facility has an accessible entrance on an accessible route, the altered entrance is not required to be accessible unless required by Section 806.2. Signs complying with Section 1110 of the *International Building Code* shall be provided.

806.1.2 Elevators.

Altered elements of existing elevators shall comply with ASME A17.1/CSA B44 and ICC

A117.1. Such elements shall also be altered in elevators programmed to respond to the same hall call control as the altered elevator.

806.1.3 Platform lifts.

Platform (wheelchair) lifts complying with ICC A117.1 and installed in accordance with ASME A18.1 shall be permitted as a component of an accessible route.

806.1.4 Ramps.

Where steeper slopes than allowed by Section 1010.3 of the *International Building Code* are necessitated by space limitations, the slope of ramps in or providing access to existing facilities shall comply with Table 806.1.4.

TABLE 806.1.4
RAMPS

<u>SLOPE</u>	<u>MAXIMUM RISE</u>
<u>Steeper than 1:10 but not steeper than 1:8</u>	<u>3 inches</u>
<u>Steeper than 1:12 but not steeper than 1:10</u>	<u>6 inches</u>

For SI: 1 inch = 25.4 mm.

806.1.5 Dining areas.

An accessible route to raised or sunken dining areas or to outdoor seating areas is not required provided that the same services and decor are provided in an accessible space usable by any occupant and not restricted to use by people with a disability.

806.1.6 Performance areas.

Where it is *technically infeasible* to alter performance areas to be on an accessible route, at least one of each type of performance area shall be made accessible.

806.1.7 Jury boxes and witness stands.

In *alterations*, accessible wheelchair spaces are not required to be located within the defined area of raised jury boxes or witness stands and shall be permitted to be located outside these spaces where ramp or lift access poses a hazard by restricting or projecting into a required means of egress.

806.1.8 Accessible dwelling or sleeping units.

Where Group I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being altered, the requirements of Section 1107 of the *International Building Code* for accessible units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being altered.

806.1.9 Type A dwelling or sleeping units.

Where more than 20 Group R-2 dwelling or sleeping units are being altered, the requirements of Section 1107 of the *International Building Code* for Type A units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being altered.

806.1.10 Toilet rooms.

Where it is technically infeasible to alter existing toilet and bathing rooms to be accessible, an accessible family or assisted-use toilet or bathing room constructed in accordance with Section 1109.2.1 of the *International Building Code* is permitted. The family or assisted-use toilet or bathing room shall be located on the same floor and in the same area as the existing toilet or bathing rooms.

806.1.11 Dressing, fitting and locker rooms.

Where it is *technically infeasible* to provide accessible dressing, fitting, or locker rooms at the same location as similar types of rooms, one accessible room on the same level shall be provided. Where separate sex facilities are provided, accessible rooms for each sex shall be provided. Separate sex facilities are not required where only unisex rooms are provided.

806.1.12 Fuel dispensers.

Operable parts of replacement fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

806.1.13 Thresholds.

The maximum height of thresholds at doorways shall be $\frac{3}{4}$ inch (19.1 mm). Such thresholds shall have beveled edges on each side.

806.1.14 Extent of application.

An *alteration* of an existing element, space, or area of a *facility* shall not impose a requirement for greater accessibility than that which would be required for new construction. *Alterations* shall not reduce or have the effect of reducing accessibility of a *facility* or portion of a *facility*.

806.2 Alterations affecting an area containing a primary function.

Where an *alteration* affects the accessibility to a, or contains an area of, *primary function*, the route to the *primary function* area shall be accessible. The accessible route to the *primary function* area shall include toilet facilities or drinking fountains serving the area of *primary function*.

Exceptions:

1. The costs of providing the accessible route are not required to exceed 20 percent of the costs of the alterations affecting the area of *primary function*.
2. This provision does not apply to *alterations* limited solely to windows, hardware, operating controls, electrical outlets and signs.
3. This provision does not apply to *alterations* limited solely to mechanical systems, electrical systems, installation or *alteration* of fire protection systems and abatement of hazardous materials.
4. This provision does not apply to *alterations* undertaken for the primary purpose of increasing the accessibility of a *facility*.

5. This provision does not apply to altered areas limited to Type B dwelling and sleeping units.

806.2-806.3 Stairs and escalators in existing buildings.

In *alterations* where an escalator or stair is added where none existed previously, an accessible route shall be provided in accordance with Sections 1104.4 and 1104.5 of the *International Building Code*.

806.3-806.4 Accessible dwelling units and sleeping units.

Where Group I-1, I-2, I-3, R-1, R-2 or R-4 dwelling or sleeping units are being added, the requirements of Section 1107 of the *International Building Code* for accessible units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of spaces being added.

806.4-806.5 Type A dwelling or sleeping units.

Where ~~more than 20~~ 11 or more Group R-2 dwelling or sleeping units are being added, the requirements of Section 1107 of the *International Building Code* for Type A units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being added.

806.5-806.6 Type B dwelling or sleeping units.

Where four or more Group I-1, I-2, R-1, R-2, R-3 or R-4 dwelling or sleeping units are being added, the requirements of Section 1107 of the *International Building Code* for Type B units and Chapter 9 of the *International Building Code* for visible alarms apply only to the quantity of the spaces being added.

SECTION 807 STRUCTURAL

[B] 807.5 Existing structural elements resisting lateral loads.

~~Alterations affecting the demands or capacities of existing elements of the lateral load-resisting system shall be evaluated using the wind provisions of the *International Building Code* and the reduced IBC-level seismic forces. Any existing lateral load-resisting structural elements whose demand-capacity ratio with the alteration considered is more than 10 percent greater than its demand-capacity ratio with the alteration ignored shall be brought into compliance with those wind and seismic provisions. In addition, the alteration shall not create a structural irregularity prohibited by ASCE 7 unless the entire structure complies with Section 301.1.4.2. For the purposes of this section, comparisons of demand-capacity ratios and calculation of design lateral loads, forces and capacity shall account for the cumulative effects of additions and alterations since the original construction.~~

The work shall not cause any diminution of existing structural strength below that which exists at the time of application for a permit or that which is required by the applicable codes of the North Carolina State Building Code, whichever is lower.

807.5.1 Newly introduced fixed loads.

Newly introduced fixed loads shall not exceed the uniformly distributed live loads or concentrated live load criteria of Table 1607.1 of the North Carolina Building Code

and shall not create deflection that exceeds the standards set forth below. As used in this section, fixed loads shall mean uniform or concentrated loads and shall include equipment, files, library stacks, or similar loading conditions.

1. For wood frame construction, deflection shall not exceed $L/180$ for roofs with a slope of 3 in 12 or less or $L/120$ for roofs with a slope of greater than 3 in 12 and for floors.
2. For steel frame construction, deflection shall not exceed $L/240$ for roofs with a slope of 3 in 12 or less or $L/180$ for roofs with a slope of greater than 3 in 12 and for floors.
3. For concrete construction, deflection shall not exceed $L/180$ for roofs or $L/240$ for floors.

811.1 Minimum requirements. Level 2 *alterations* to *existing buildings* or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the *International Energy Conservation Code* or *International Residential Code*. The *alterations* shall conform to the energy requirements of the *International Energy Conservation Code* or *International Residential Code* ~~as they relate to new construction only.~~

CHAPTER 9

ALTERATIONS—LEVEL 3

(Former Rehab Code designation - Reconstruction)

SECTION 902

SPECIAL USE AND OCCUPANCY

901.2 Compliance. In addition to the provisions of this chapter, work shall comply with all of the requirements of Chapters 7 and 8. The requirements of Sections 803, 804 and 805 shall apply within all *work areas* whether or not they include exits and corridors shared by more than one tenant and regardless of the occupant load.

Exception: Buildings in which the reconfiguration of space affecting exits or shared egress access is exclusively the result of compliance with the accessibility requirements of Section ~~705.2~~ 806.2 shall not be required to comply with this chapter.

902.1 High-rise buildings.

Any building having occupied floors more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access shall comply with the requirements of Sections 902.1.1 ~~and 902.1.2~~ through 902.1.3.

902.1.3 Luminous egress path markings.

Luminous egress markings shall be installed as required by Section 1024 of the ~~North Carolina~~ Building Code.

902.2 Boiler and furnace equipment rooms.

Boiler and furnace equipment rooms ~~adjacent to or within the following facilities shall be enclosed by 1-hour fire-resistance-rated construction: day nurseries, children's shelter facilities, residential childcare facilities, and similar facilities with children below the age of 2¹/₂ years or that are classified as Group I-2 occupancies, shelter facilities, residences for the developmentally disabled, group homes, teaching family homes, transitional living homes, rooming and boarding houses, hotels, and multiple dwellings.~~

Exceptions:

1. Furnace and boiler equipment of low-pressure type, operating at pressures of 15 pounds per square inch gauge (psig) (103.4 KPa) or less for steam equipment or 170 psig (1171 KPa) or less for hot water equipment, when installed in accordance with manufacturer recommendations.
2. Furnace and boiler equipment ~~of residential R-3 type~~ with 200,000 British thermal units (Btu) (2.11 × 10⁸ J) per hour input rating or less is not required to be enclosed.
3. Furnace rooms protected with automatic sprinkler protection.
4. One- and two-family dwellings and townhouses as constructed under the North Carolina Residential Code.

902.3 Group H.

Where the work area includes a Group H occupancy, the building shall comply with all the requirements of the *North Carolina Building Code* for the Group H occupancy.

SECTION 903 BUILDING ELEMENTS AND MATERIALS

903.2 Fire ~~partitions~~ separation in Group R-3.

Fire separation in Group R-3 occupancies shall be in accordance with Section 903.2.1.

903.2.1 Separation required.

Where the *work area* is in any attached dwelling unit in Group R-3 ~~or~~, any multiple single-family dwelling (townhouse) ~~or any two-family dwellings~~, walls separating the dwelling units that are not continuous from the foundation to the underside of the roof sheathing shall be constructed to provide a continuous fire separation using construction materials consistent with the existing wall or complying with the requirements for new structures. All work shall be performed on the side of the dwelling unit wall that is part of the *work area*.

Exception

Exceptions:

1. Where *alterations* or *repairs* do not result in the removal of wall or ceiling finishes exposing the structure, walls are not required to be continuous through concealed floor spaces.
2. If not currently existing, separation is not required in the crawl space of two-family dwellings.

SECTION 904 FIRE PROTECTION

904.1.1 High-rise buildings.

~~In high-rise buildings, work areas shall be provided with automatic sprinkler protection where the building has a sufficient municipal water supply system to the site. Where the work area exceeds 50 percent of floor area, sprinklers shall be provided in the specified areas where sufficient municipal water supply for design and installation of a fire sprinkler system is available at the site.~~

904.1.2 Rubbish and linen chutes.

~~Rubbish and linen chutes located in the work area shall be provided with automatic sprinkler system protection or an approved automatic fire-extinguishing system where protection of the rubbish and linen chute would be required under the provisions of the *International Building Code* for new construction.~~

904.1.1 Other required automatic sprinkler systems.

In buildings and areas listed in Table 903.2.11.6 of the *North Carolina Building Code*, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with an automatic sprinkler system under the following conditions:

1. The *work area* is required to be provided with an automatic sprinkler system in accordance with the **North Carolina Building Code** applicable to new construction;
2. The building has sufficient municipal water supply for design of an automatic sprinkler system available to the floor without installation of a new water storage tank; and
3. The work area is separated from the remainder of the building with fire barriers complying with the **North Carolina Building Code**.

904.2 Standpipes.

Where the *work area* includes exits or corridors shared by more than one tenant and is located more than 30 feet (15 240 mm) above or below the lowest level of fire department access, a standpipe system shall be provided. Standpipes shall have an approved fire department connection with hose connections at each floor level above or below the lowest level of fire department access. Standpipe systems shall be installed in accordance with the **North Carolina Building Code**. Standpipes systems shall be provided for high-rise buildings as required by North Carolina General Statute 143-138, Section (i).

Exception: The interconnection of multiple standpipe risers shall not be required.

904.3 Fire alarm and detection systems.

Fire alarm and detection systems complying with Sections 804.4.1, 804.4.2, and this section shall be provided in accordance with the **North Carolina Building Code** or the **North Carolina Residential Code**, whichever is applicable.

904.3.1 Manual fire alarm systems.

Where required by the **North Carolina Building Code**, a manual fire alarm system shall be provided throughout the *work area*. Alarm notification appliances shall be automatically activated as required by the **North Carolina Building Code**. Visual alarm notification appliances are not required, except where an existing alarm system is upgraded or replaced or where a new fire alarm system is installed.

904.3.2 Automatic fire detection.

Where required by the **North Carolina Building Code** or **North Carolina Residential Code** for new buildings, automatic fire detection systems shall be provided throughout the *work area*.

SECTION 906 ACCESSIBILITY

906.1 General.

A building, *facility* or element that is altered shall comply with this section and **Sections 705 and 806**.

SECTION 907 STRUCTURAL

[B] 907.4 Existing structural elements resisting lateral loads.

~~All existing elements of the lateral force-resisting system shall comply with this section.~~

Existing structural elements resisting lateral loads shall comply with Section 807.5. Sections 907.4.1 through 907.4.5 shall apply when existing elements of the lateral force resisting system have been damaged due to a wind or seismic event. Repair work such as ~~but not limited to~~ termite or rot damage shall comply with Section 606.1.

Exceptions:

Exception: 1.—Buildings of Group R occupancy used solely for residential purposes with no more than five dwelling or sleeping units ~~used solely for residential purposes~~ that are altered based on the conventional light-frame construction methods of the *International Building Code* or in compliance with the provisions of the *International Residential Code*.

~~2.—Where such alterations involve only the lowest story of a building and the change of occupancy provisions of Chapter 10 do not apply, only the lateral force-resisting components in and below that story need comply with this section.~~

SECTION 908 ENERGY CONSERVATION

908.1 Minimum requirements. Level 3 *alterations* to existing buildings or structures are permitted without requiring the entire building or structure to comply with the energy requirements of the *International Energy Conservation Code* or *International Residential Code*. The *alterations* shall conform to the energy requirements of the *International Energy Conservation Code* or *International Residential Code* ~~as they relate to new construction only.~~

908.1.1 Unconditioned to conditioned space.

In addition to the requirement of Section 908.1, projects changing unconditioned space to conditioned space and costing more than \$10,000 shall require 10 percent of the project cost be used toward meeting the minimum requirements of Chapter 11 of the North Carolina Residential Code for one- and two family dwellings and townhouses or the North Carolina Energy Conservation Code. Project cost for purposes of this section is the total project cost listed on all permits related to the work required to convert the unconditioned space to conditioned space and excludes the 10% added from this section. Under this section, existing building envelope elements that become a part of the building thermal envelope and are not changed are not required to be upgraded. The additional 10% of the project cost shall be appropriated for additional energy conservation features of choice that are addressed in Chapter 11 of the North Carolina Residential Code for one- and two- family dwellings and townhouses or the North Carolina Energy Conservation Code. In addition to the 10 percent project cost, any existing ceiling, wall, or floor cavities becoming a part of the building thermal envelope that are exposed during construction shall at a minimum be insulated to comply with Chapter 11 of the North Carolina Residential Code for one- two family dwellings and townhouses or the North Carolina Energy Conservation Code or be insulated to fill the cavity, whichever is less.

CHAPTER 10

CHANGE OF OCCUPANCY

SECTION 1001 GENERAL

1001.1 Scope.

The provisions of this chapter shall apply where a *change of occupancy* occurs, as defined in Section 202, including:

1. Where the occupancy ~~classification~~ use is ~~not~~ changed; or
2. Where there is a change in occupancy classification or the occupancy group designation changes.

Construction work related to the change of use shall conform to the other applicable chapters of this code.

1001.3 Change or partial change of occupancy classification.

Where the *occupancy classification* ~~of a building~~ changes, the provisions of Sections 1002 through 1012 shall apply. This includes a *change of occupancy* classification within a group as well as a *change of occupancy* classification from one group to a different group.

1001.3.1 Partial change of occupancy classification. (Deleted)

~~Where a portion of an existing building is changed to a new occupancy classification, Section 1012 shall apply.~~

1001.4 Certificate of occupancy required.

A new certificate of occupancy shall be ~~issued~~ required where a *change of occupancy* occurs that results in a different *occupancy classification* as determined by Chapter 3 of the International Building Code.

SECTION 1006 ACCESSIBILITY

1006.1 General.

Accessibility in portions of buildings undergoing a *change of occupancy* classification shall comply with Section ~~1012.8~~ 1012.9.

SECTION 1007 STRUCTURAL

1007.1 Structural Requirements.

Structural requirements for occupancy changes shall comply with Sections 1007.2 through 1007.4.

Table 1007.1
Structural Load Categories

Load Category	Occupancy Classification
1 (highest)	F-1, F-2, S-1, S-2, stack areas in libraries, stages and platforms, areas subject to vehicular loads, queuing areas
2	All loading conditions not listed in category 1 or 3
3 (lowest)	B, E, I-1, I-2, I-3, R-1, R-2, R-3, R-4, U

[B] ~~1007.1~~ 1007.2 Gravity loads.

Buildings or portions thereof subject to a *change of occupancy* where such change in the nature of occupancy results in higher uniform or concentrated loads based on Table 1607.1 of the *International Building Code* shall comply with the gravity load provisions of the *International Building Code*.

Exception:

1. Structural elements whose stress is not increased by more than 5 percent.
2. If the Building Code official determines that the number of occupants and the placement and weight of equipment can be controlled by the occupants, Group F areas designed for reduced live load shall be posted with the approved live load. Placards stating the allowable live loads shall be posted. Placards may state loads in forms usable by the occupants, in addition to posting the allowable load in pounds per square foot. Such information shall be developed by a ~~registered~~ design professional and be approved by the code official.
 - 2.1 Analysis and test methods for evaluation of existing structural members shall use methods specified in the code in effect at the time the building was originally constructed.

1007.2.1 Change to Higher Load Category. When the use or character of use of a building is changed to a higher load category as shown in Table 1007.1, then the structure shall be capable of supporting the load requirement for the new use or character of use.

Exception: The corridor and lobby loading requirements of Table 1607.1 shall be met only if the corridor exceeds six feet in width or if the lobby or corridor area is used for queuing purposes.

1007.2.2 Change to Equal or Lower Load Category. Where the use or character of use within an existing building is changed to an equal or lower load category as shown in Table 1007.1, then the existing structure may be used without modification, provided that the building is structurally sound and in good structural repair. When a change of use results in a building being reclassified as a Seismic Use Group III, the building shall comply with the seismic design requirements of Section 1613 of the North Carolina Building Code.

[B] ~~1007.2~~ 1007.3 Snow and wind loads.

Buildings and structures subject to a *change of occupancy* where such change in the nature of occupancy results in higher ~~wind or snow~~ risk categories based on Table 1604.5 of the *International Building Code* shall be analyzed and shall comply with the applicable wind or snow load provisions of the *International Building Code*.

Exception: Where the new occupancy with a higher risk category is less than or equal to 10 percent of the total building floor area. The cumulative effect of the area of occupancy changes shall be considered for the purposes of this exception.

[B] ~~1007.3~~ 1007.4 Seismic loads.

Existing buildings with a *change of occupancy* shall comply with the seismic provisions of Sections ~~1007.3.1~~ 1007.4.1 and ~~1007.3.2~~ 1007.4.2.

[B] ~~1007.3.1~~ 1007.4.1 Compliance with the International Building Code level seismic forces.

Where a building or portion thereof is subject to a *change of occupancy* that results in the building being assigned to a higher risk category based on Table 1604.5 of the *International Building Code*; or where such *change of occupancy* results in a reclassification of a building to a higher hazard category as shown in Table ~~1012.4~~ 1007.1; ~~or where a change of a Group M occupancy to a Group A, E, I-1, R-1, R-2 or R-4 occupancy with two-thirds or more of the floors involved in Level 3 alteration work~~, the building shall comply with the requirements for *International Building Code* level seismic forces as specified in Section 301.1.4.1 for the new risk category.

Exceptions:

- ~~1.~~ ~~Group M occupancies being changed to Group A, E, I-1, R-1, R-2 or R-4 occupancies for buildings less than six stories in height and in Seismic Design Category A, B or C.~~
- ~~2.~~1. Where approved by the *code official*, specific detailing provisions required for a new structure are not required to be met where it can be shown that an equivalent level of performance and seismic safety is obtained for the applicable risk category based on the provision for reduced *International Building Code* level seismic forces as specified in Section 301.1.4.2.
- ~~3.~~2. Where the area of the new occupancy with a higher hazard category is less than or equal to 10 percent of the total building floor area and the new occupancy is not classified as Risk Category IV. For the purposes of this exception, buildings occupied by two or more occupancies not included in the same Risk category, shall be subject to the provisions of Section 1604.5.1 of the *International Building Code*. The cumulative effect of the area of occupancy changes shall be considered for the purposes of this exception.
- ~~4.~~3. Unreinforced masonry bearing wall buildings in Risk Category III when assigned to Seismic Design Category A or B shall be allowed to be strengthened to meet the requirements of Appendix Chapter A1 of this code [Guidelines for the Seismic Retrofit of Existing Buildings (GSREB)].

[B] ~~1007.3.2~~ 1007.4.2 Access to Risk Category IV.

Where a *change of occupancy* is such that compliance with Section ~~1007.3.1~~ 1007.4.1 is required and the building is assigned to Risk Category IV, the *operational access* to the building shall not be through an adjacent structure, unless that structure conforms to the requirements for Risk Category IV structures. Where *operational access* is less than 10 feet (3048 mm) from either an interior lot line or from another structure, access protection from potential falling debris shall be provided by the owner of the Risk Category IV structure.

SECTION 1008 ELECTRICAL

1008.3 Service upgrade.

Where the occupancy of an *existing building* or part of an *existing building* is changed such that the new load requires an increase in service, the electrical service shall be upgraded to meet the requirements of NFPA 70 for the new occupancy.

SECTION 1011 OTHER REQUIREMENTS

1011.1 Natural light ~~Light~~ and natural ventilation.

Natural light ~~Light~~ and natural ventilation shall comply with the requirements of the *International Building Code* or North Carolina Residential Code for the new occupancy.

SECTION 1012 CHANGE OF OCCUPANCY CLASSIFICATION

1012.1 General.

The provisions of this section shall apply to buildings or portions thereof undergoing a change of occupancy classification. This includes a change of occupancy classification within a group as well as a change of occupancy classification from one group to a different group. Such buildings shall also comply with Sections 1002 through 1011. The application of requirements for the change of occupancy shall be as set forth in Sections 1012.1.1 through 1012.1.4. A *change of occupancy*, as defined in Section 202, without a corresponding change of occupancy classification shall comply with Section 1001.2. For purposes of this section Group R-3 shall also include detached one- and two-family dwellings and townhouses.

1012.1.1 Separation and Compliance with Chapter 9 of this code.

Where alteration work is required by the change of occupancy classification the ~~The~~ requirements of Chapter 9 of this code shall be ~~applicable~~ applied throughout the building for the ~~new occupancy classification based on the separation conditions set forth in Sections 1012.1.1.1 and 1012.1.1.2~~ most restrictive occupancy classification.

~~1012.1.1.1 Change of occupancy classification without separation.~~

~~Where a portion of an existing building is changed to a new occupancy classification and that portion is not separated from the remainder of the building with fire barriers having a fire-resistance rating as required in the International Building Code for the separate occupancy, the entire building shall comply with all of the requirements of Chapter 9~~

~~applied throughout the building for the most restrictive occupancy classification in the building and with the requirements of this chapter.~~

~~1012.1.1.2 Change of occupancy classification with separation.~~

Exception: Where a portion of an *existing building* that is changed to a new occupancy classification and that portion is separated from the remainder of the building with fire barriers having a fire-resistance rating as required in the *International Building Code* for the separate occupancy, that portion shall comply with all of the requirements of Chapter 9 of this code for the most restrictive occupancy in the fire area ~~new-occupancy-classification~~ and with the requirements of this chapter.

1012.1.4 Accessibility.

All buildings undergoing a change of occupancy classification shall comply with Section ~~1012.8~~ 1012.9.

1012.2.1 Fire sprinkler system.

~~Where a change in occupancy classification occurs that requires an automatic fire sprinkler system to be provided based on the new occupancy in accordance with Chapter 9 of the International Building Code, such system shall be provided throughout the area where the change of occupancy occurs.~~

Hazard categories in regard to fire sprinkler requirements shall be in accordance with Table 1012.2.1.

Table 1012.2.1
Hazard Categories and Classifications

Relative Hazard	Use Classification
1 (highest)	H, I, <i>Nightclub</i>
2	A-2, R-1, R-2
3	A-1, A-3
4	F-1, M, S-1
5	A-4, E
6 (lowest)	B, F-2, R-3, R-4, S-2, U

1012.2.1.1 Change to higher hazard category. When a change of use is made to a higher hazard category as shown in Table 1012.2.1, the building shall be provided with an automatic fire suppression system as required by Section 903 of the North Carolina Building Code.

Exceptions: When an area of a building is changed to a higher hazard category and the proposed use is separated from the existing use(s) by assemblies that meet the applicable fire rating in Table 508.4 of the North Carolina Building Code, an automatic fire suppression system as required above shall be installed only in the area changed.

1012.2.1.2 Change to equal or lesser hazard category. When a change of use is made to an equal or lesser hazard category as shown in Table 1012.2.1, there is no requirement to install an automatic fire suppression system.

Exceptions:

1. In areas where work being performed in connection with the change of use

triggers a requirement for suppression.

2. In windowless stories an automatic fire suppression system shall be installed as required by Section 903 of the North Carolina Building Code.

1012.2.1.3 Change in NFPA 13 hazard level. Notwithstanding the relative hazard as determined by Table 1012.2.1, when a change in the character of the use is made to a higher degree of hazard as defined by NFPA 13 (Light Hazard, Ordinary Hazard Group 1, Ordinary Hazard Group 2, Extra Hazard Group 1, Extra Hazard Group 2 and Special Occupancy Hazards), the sprinkler system shall be evaluated and, where required by NFPA 13, altered to conform to the required density and maximum sprinkler protection area per head for the proposed occupancy.

1012.2.2 Fire alarm and detection system and Carbon Monoxide alarm system.

Where a change in occupancy classification occurs that requires a fire alarm and detection system or a carbon monoxide alarm system to be provided based on the new occupancy in accordance with Chapter 9 of the *International Building Code*, such system shall be provided throughout the area where the *change of occupancy* occurs. Existing alarm notification appliances shall be automatically activated throughout the building. Where the building is not equipped with a fire alarm system, alarm notification appliances shall be provided throughout the area where the *change of occupancy* occurs and shall be automatically activated.

**TABLE 1012.4
MEANS OF EGRESS HAZARD CATEGORIES**

RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS
1 (Highest Hazard)	H
2	I-2, I-3, I-4
3	A, E, I-1, M, R-1, R-2, <u>R-4</u>
4	B, F-1, R-3 ^a , S-1
5 (Lowest Hazard)	F-2, S-2, U

a. Detached one- and two-family dwellings and townhouses are relative hazard 5.

1012.4.1 Means of egress for change to higher hazard category.

When a change of occupancy classification is made to a higher hazard category (lower number) as shown in Table 1012.4, the means of egress shall comply with the requirements of Chapter 10 of the *International Building Code*.

Exceptions:

1. Stairways shall be enclosed in compliance with the applicable provisions of Section 903.1.
2. Existing stairways including handrails and guards complying with the requirements of Chapter 9 shall be permitted for continued use subject to approval of the *code official*.

3. Any stairway replacing an existing stairway within a space where the pitch or slope cannot be reduced because of existing construction shall not be required to comply with the maximum riser height and minimum tread depth requirements.
4. Existing corridor walls constructed on both sides of wood lath and plaster in good condition or $\frac{1}{2}$ -inch-thick (12.7 mm) gypsum wallboard shall be permitted where 1-hour rated separation is required. Such walls shall either terminate at the underside of a ceiling of equivalent construction or extend to the underside of the floor or roof next above.
5. Existing corridor doorways, transoms and other corridor openings shall comply with the requirements in Sections 805.5.1, 805.5.2 and 805.5.3.
6. Existing dead-end corridors shall comply with the requirements in Section 805.6.
7. An existing operable window with clear opening area no less than 4 square feet (0.38 m^2) and minimum opening height and width of 22 inches (559 mm) and 20 inches (508 mm), respectively, shall be accepted as an emergency escape and rescue opening.

1012.4.3 Egress capacity.

Egress capacity shall meet or exceed the occupant load as specified in the *International Building Code* for the new occupancy.

Exception: The occupant load of the space may be restricted to comply with North Carolina Building Code, Sections 1015, 1018, and 1021. Signage indicating the allowed quantity of occupants shall be permanently mounted in the building at a location approved by the local fire marshal.

**TABLE 1012.5
HEIGHTS AND AREAS HAZARD CATEGORIES**

RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS
1 (Highest Hazard)	H ^a
2	A-1, A-2, A-3, A-4, I ^a , R-1, R-2, R-4
3	E, F-1, <u>R-1, R-2, S-1, M, R-4</u>
4 (Lowest Hazard)	B, F-2, S-2, A-5, R-3, U

a. H-1 and I-2 are not permitted in Type VB construction.

1012.5.1.1 Fire wall alternative.

In other than Groups H, F-1 and S-1, fire barriers and horizontal assemblies constructed in accordance with Sections 707 and ~~744~~ 712, respectively, of the *International Building Code* shall be permitted to be used in lieu of fire walls to subdivide the building into separate buildings for the purpose of complying with the area limitations required for the new occupancy where all of the following conditions are met:

1. The buildings are protected throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the *International Fire Code*.

2. The maximum allowable area between fire barriers, horizontal assemblies, or any combination thereof shall not exceed the maximum allowable area determined in accordance with Chapter 5 of the *International Building Code* without an increase allowed for an automatic sprinkler system in accordance with Section 506 of the *International Building Code*.
3. The fire-resistance rating of the fire barriers and horizontal assemblies shall not be less than that specified for fire walls in Table 706.4 of the *International Building Code*.

Exception: Where horizontal assemblies are used to limit the maximum allowable area, the required fire-resistance rating of the horizontal assemblies shall be permitted to be reduced by 1 hour provided the height and number of stories increases allowed for an automatic sprinkler system by Section 504.2 of the *International Building Code* are not used for the buildings.

**TABLE 1012.6
EXPOSURE OF EXTERIOR WALLS HAZARD CATEGORIES**

RELATIVE HAZARD	OCCUPANCY CLASSIFICATIONS
1 (Highest Hazard)	H
2	F-1, M ^a , S-1
3	A, B, E, I, R
4 (Lowest Hazard)	F-2, S-2, U

a. Group M occupancy of 12,000 square feet or less shall be relative hazard category 3.

1012.7.1 Minimum requirements.

Vertical shafts shall be designed to meet the *International Building Code* requirements for atriums or the requirements of this section.

Exception: Shafts for Group M occupancies in buildings that are less than 3,000 square feet or less per floor and three stories or less are not required to be enclosed.

1012.7.4 Openings.

All openings into existing fire-resistant-rated vertical shaft enclosures shall be protected by fire assemblies having a fire protection rating of not less than 1 hour and shall be maintained self-closing or shall be automatic-closing by actuation of a smoke detector. All other openings shall be fire protected in an approved manner. Existing fusible link-type automatic door-closing devices shall be permitted in all shafts except stairways if the fusible link rating does not exceed 135°F (57°C).

1012.8 Dwelling unit separation.

1012.8.1 Townhouses.

Existing buildings that establish new townhouse dwelling units shall comply with separation requirements of Section R302.2 of the North Carolina Residential Code and related subsections.

1012.8.2 Two-family dwellings.

Existing buildings that establish new detached two-family dwelling units shall comply with separation requirements of Section R302.3 of the North Carolina Residential Code and related subsections.

1012.8.3 Group I-1, R-1, R-2 or R3.

Existing buildings that establish new Group I-1, R-1, R-2 or R-3 dwelling or sleeping units shall comply with separation requirements of Section 420 of the North Carolina Building Code.

~~1012.8~~ 1012.9 Accessibility.

Existing buildings that undergo a change of group or occupancy classification shall comply with this section.

Exception: Type B dwelling or sleeping units required by Section 1107 of the *International Building Code* are not required to be provided in existing buildings and facilities undergoing a *change of occupancy* in conjunction with less than a Level 3 *alteration*.

~~1012.8.1~~ 1012.9.1 Partial change in occupancy.

Where a portion of the building is changed to a new occupancy classification, any *alteration* shall comply with Sections ~~705,~~ 806 and 906, as applicable.

~~1012.8.2~~ 1012.9.2 Complete change of occupancy.

Where an entire building undergoes a *change of occupancy*, it shall comply with Section ~~1012.8.1~~ 1012.9.1 and shall have all of the following accessible features:

1. At least one accessible building entrance.
2. At least one accessible route from an accessible building entrance to *primary function* areas.
3. Signage complying with Section 1110 of the *International Building Code*.
4. Accessible parking, where parking is provided.
5. At least one accessible passenger loading zone, where loading zones are provided.
6. At least one accessible route connecting accessible parking and accessible passenger loading zones to an accessible entrance.

Where it is *technically infeasible* to comply with the new construction standards for any of these requirements for a change of group or occupancy, the above items shall conform to the requirements to the maximum extent technically feasible.

Exception: The accessible features listed in Items 1 through 6 are not required for an accessible route to Type B units.

CHAPTER 11

ADDITIONS

SECTION 1102 HEIGHTS AND AREAS

1102.3 Fire protection systems.

Existing fire areas increased by the *addition* shall comply with Chapter 9 of the *International Building Code*.

Exception: This requirement shall not apply to increases to the allowable fire area of five percent or less.

SECTION 1103 STRUCTURAL

[B] 1103.5 Flood hazard areas.

Additions and foundations in *flood hazard areas* shall comply with the following requirements:

1. For horizontal *additions* that are structurally interconnected to the *existing building*:
 - 1.1. If the *addition* and all other proposed work, when combined, constitute *substantial improvement*, the *existing building* and the *addition* shall comply with Section 1612 of the *International Building Code* or Section R322 of the North Carolina Residential Code.
 - 1.2. If the *addition* constitutes *substantial improvement*, the *existing building* and the *addition* shall comply with Section 1612 of the *International Building Code* or Section R322 of the North Carolina Residential Code.
2. For horizontal *additions* that are not structurally interconnected to the *existing building*:
 - 2.1. The *addition* shall comply with Section 1612 of the *International Building Code* or Section R322 of the North Carolina Residential Code.
 - 2.2. If the *addition* and all other proposed work, when combined, constitute *substantial improvement*, the *existing building* and the *addition* shall comply with Section 1612 of the *International Building Code* or Section R322 of the North Carolina Residential Code.
3. For vertical additions and all other proposed work that, when combined, constitute *substantial improvement*, the *existing building* shall comply with Section 1612 of the *International Building Code* or Section R322 of the North Carolina Residential Code.

4. For a new, replacement, raised, or extended foundation, if the foundation work and all other proposed work, when combined, constitute *substantial improvement*, the *existing building* shall comply with Section 1612 of the *International Building Code* or Section R322 of the *North Carolina Residential Code*.

SECTION 1104 SMOKE ALARMS AND CARBON MONOXIDE ALARMS IN OCCUPANCY ~~GROUPS R AND I-1~~ ONE- AND TWO-FAMILY DWELLINGS

1104.1 Smoke alarms in existing portions of a building.

Where an *addition* is made to a building or structure of a ~~Group R or I-1~~ one- and two-family dwelling occupancy, the *existing building* shall be provided with smoke alarms as required by ~~Section 1103.8 of the *International Fire Code* or~~ Section R314.3.1 of the *International Residential Code* as applicable.

1104.2 Carbon monoxide alarms in existing portions of a building.

Where an *addition* is made to a building or structure of a one- and two-family dwelling, the *existing building* shall be provided with carbon monoxide alarms as required Section R315.2 of the *North Carolina Residential Code* as applicable.

SECTION 1105 ACCESSIBILITY

1105.1 Minimum requirements.

Accessibility provisions for new construction shall apply to additions. An addition that affects the accessibility to an area of *primary function*, or contains an area of, *primary function* shall comply with the requirements of Sections ~~705~~, 806 and 906, as applicable.

CHAPTER 12

HISTORIC BUILDINGS

SECTION 1201 GENERAL

[B] 1201.4 Flood hazard areas.

In *flood hazard areas*, if all proposed work, including repairs, work required because of a *change of occupancy*, and *alterations*, constitutes *substantial improvement*, then the *existing building* shall comply with Section 1612 of the *International Building Code* or Section R322 of the *North Carolina Residential Code*.

Exception: If an *historic building* will continue to be an *historic building* after the proposed work is completed, then the proposed work is not considered a *substantial improvement*. For the purposes of this exception, an *historic building* is:

1. Listed or preliminarily determined to be eligible for listing in the National Register of Historic Places;
2. Determined by the Secretary of the U.S. Department of Interior to contribute to the historical significance of a registered historic district or a district preliminarily determined to qualify as a historic district; or
3. Designated as historic under a state or local historic preservation program that is approved by the Department of Interior.

1201.5 Ceiling Height.

Existing ceiling heights shall be permitted to remain.

SECTION 1202 REPAIRS

1202.4.1 Wind-borne debris protection.

Replacement of window units shall require compliance with Section 1609.1.2 of the North Carolina Building Code or Section R612.9. of the North Carolina Residential Code.

Replacement of individual glass panes or sashes shall not require compliance with Section 1609.1.2 of the North Carolina Building Code or R612.9 of the North Carolina Residential Code.

SECTION 1203 FIRE SAFETY

1203.2 General.

Every *historic building* that does not conform to the construction requirements specified in this

code for the occupancy or use and that constitutes a distinct ~~fire-life safety~~ hazard as ~~defined herein~~ identified by the *code official* shall be provided with an approved automatic fire-extinguishing system as determined appropriate by the *code official*. However, an automatic fire-extinguishing system shall not be used to substitute for, or act as an alternative to, the required number of exits from any *facility*.

1203.12 Automatic fire-extinguishing systems. (Deleted)

~~Every historical building that cannot be made to conform to the construction requirements specified in the *International Building Code* for the occupancy or use and that constitutes a distinct fire hazard shall be deemed to be in compliance if provided with an approved automatic fire-extinguishing system.~~

~~**Exception:** When the *code official* approves an alternative life safety system.~~

SECTION 1204 ALTERATIONS

1204.1 Accessibility requirements. The provisions of Sections ~~705~~, 806 and 906, as applicable, shall apply to facilities designated as historic structures that undergo *alterations*, unless *technically infeasible*. Where compliance with the requirements for accessible routes, entrances or toilet rooms would threaten or destroy the historic significance of the building or *facility*, as determined by the *code official*, the alternative requirements of Sections 1204.1.1 through 1204.1.4 for that element shall be permitted.

1204.1.1 Site arrival points.

~~At least one main entrance shall be accessible.~~ At least one accessible route from a site arrival point to an accessible entrance shall be provided.

SECTION 1205 CHANGE OF OCCUPANCY

1205.15 Accessibility requirements.

The provisions of Section ~~1012.8~~ 1012.9 shall apply to facilities designated as historic structures that undergo a *change of occupancy*, unless *technically infeasible*. Where compliance with the requirements for accessible routes, ramps, entrances, or toilet rooms would threaten or destroy the historic significance of the building or *facility*, as determined by the authority having jurisdiction, the alternative requirements of Sections 1204.1.1 through 1204.1.4 for those elements shall be permitted.

Exception: Type B dwelling or sleeping units required by Section 1107 of the *International Building Code* are not required to be provided in historical buildings.

CHAPTER 13

RELOCATED OR MOVED BUILDINGS

SECTION 1301 GENERAL

1301.2 Conformance.

The building shall be safe for human occupancy as determined by the International Fire Code ~~and the International Property Maintenance Code~~. Any repair, alteration, or change of occupancy undertaken within the moved structure shall comply with the requirements of this code applicable to the work being performed. Any field-fabricated elements shall comply with the requirements of the *International Building Code* or the *International Residential Code* as applicable.

SECTION 1302 REQUIREMENTS

[B] 1302.4 Seismic loads.

Buildings shall comply with *International Building Code* or *International Residential Code* seismic provisions at the new location as applicable.

Exceptions:

1. Structures in Seismic Design Categories A and B and ~~detached one- and two-family dwellings~~ townhouses in Seismic Design ~~Categories A, B and~~ Category C where the seismic loads at the new location are not higher than those at the previous location.
2. Structural elements whose stress is not increased by more than 10 percent.

[B] 1302.6 Flood hazard areas.

If relocated or moved into a *flood hazard area*, structures shall comply with Section 1612 of the *International Building Code* or Section R322 of the ~~North Carolina~~ Residential Code.

CHAPTER 14

PERFORMANCE COMPLIANCE METHODS

SECTION 1401 GENERAL

[B] 1401.2.2 Partial change in occupancy.

Where a portion of the building is changed to a new occupancy classification and that portion is separated from the remainder of the building with fire barrier or horizontal assemblies having a fire-resistance rating as required by Table 508.4 of the *International Building Code* or Section ~~R317~~ R302 of the *International Residential Code* for the separate occupancies, or with approved compliance alternatives, the portion changed shall be made to conform to the provisions of this section.

Where a portion of the building is changed to a new occupancy classification and that portion is not separated from the remainder of the building with fire barriers or horizontal assemblies having a fire-resistance rating as required by Table 508.4 of the *International Building Code* or Section ~~R317~~ R302 of the *International Residential Code* for the separate occupancies, or with approved compliance alternatives, the provisions of this section which apply to each occupancy shall apply to the entire building. Where there are conflicting provisions, those requirements which secure the greater public safety shall apply to the entire building or structure.

[B] 1401.2.5 Accessibility requirements.

Additions, alterations and all ~~All~~ portions of the buildings proposed for *change of occupancy* shall conform to the accessibility provisions of Section 410.

[B] 1401.3.2 Compliance with other codes.

Buildings that are evaluated in accordance with this section shall comply with the *International Fire Code* ~~and International Property Maintenance Code~~.

[B] 1401.6.4.1 Categories.

The categories for tenant and dwelling unit separations are:

1. Category a—No fire partitions; incomplete fire partitions; no doors; doors not self-closing or automatic-closing.
2. Category b—Fire partitions or floor assemblies with less than 1-hour fire-resistance ratings or not constructed in accordance with Section ~~708~~ 709 or ~~744~~ 712 of the *International Building Code*, respectively.
3. Category c—Fire partitions with 1-hour or greater fire-resistance ratings constructed in accordance with Section ~~708~~ 709 of the *International Building Code* and floor assemblies with 1-hour but less than 2-hour fire-resistance ratings constructed in accordance with Section ~~744~~ 712 of the *International Building Code* or with only one tenant within the floor area.

4. Category d—Fire barriers with 1-hour but less than 2-hour fire-resistance ratings constructed in accordance with Section 707 of the *International Building Code* and floor assemblies with 2-hour or greater fire-resistance ratings constructed in accordance with Section ~~744~~ 712 of the *International Building Code*.
5. Category e—Fire barriers and floor assemblies with 2-hour or greater fire-resistance ratings and constructed in accordance with Sections 707 and ~~744~~ 712 of the *International Building Code*, respectively.

[B] 1401.6.5.1 Categories.

The categories for corridor walls are:

1. Category a—No fire partitions; incomplete fire partitions; no doors; or doors not self-closing.
2. Category b—Less than 1-hour fire-resistance rating or not constructed in accordance with Section ~~708.4~~ 709.4 of the *International Building Code*.
3. Category c—1-hour to less than 2-hour fire-resistance rating, with doors conforming to Section ~~746~~ 715 of the *International Building Code* or without corridors as permitted by Section 1018 of the *International Building Code*.
4. Category d—2-hour or greater fire-resistance rating, with doors conforming to Section ~~746~~ 715 of the *International Building Code*.

[B] 1401.6.6 Vertical openings.

Evaluate the fire-resistance rating of exit enclosures, hoistways, escalator openings, and other shaft enclosures within the building, and openings between two or more floors. Table 1401.6.6(1) contains the appropriate protection values. Multiply that value by the construction-type factor found in Table 1401.6.6(2). Enter the vertical opening value and its sign (positive or negative) in Table 1401.7 under Safety Parameter 1401.6.6, Vertical Openings, for fire safety, means of egress, and general safety. If the structure is a one-story building or if all the unenclosed vertical openings within the building conform to the requirements of Section ~~743~~ 708 of the *International Building Code*, enter a value of 2. The maximum positive value for this requirement shall be 2.

[B] 1401.6.10.1 Categories.

The categories for smoke control are:

1. Category a—None.
2. Category b—The building is equipped throughout with an automatic sprinkler system. Openings are provided in exterior walls at the rate of 20 square feet (1.86 m²) per 50 linear feet (15 240 mm) of exterior wall in each story and distributed around the building perimeter at intervals not exceeding 50 feet (15 240 mm). Such openings shall be readily openable from the inside without a key or separate tool and shall be provided with ready access thereto. In lieu of operable openings, clearly and permanently marked tempered glass panels shall be used.

3. Category c—One enclosed exit stairway, with ready access thereto, from each occupied floor of the building. The stairway has operable exterior windows, and the building has openings in accordance with Category b.
4. Category d—One smokeproof enclosure and the building has openings in accordance with Category b.
5. Category e—The building is equipped throughout with an automatic sprinkler system. Each floor area is provided with a mechanical air-handling system designed to accomplish smoke containment. Return and exhaust air shall be moved directly to the outside without recirculation to other floor areas of the building under fire conditions. The system shall exhaust not less than six air changes per hour from the floor area. Supply air by mechanical means to the floor area is not required. Containment of smoke shall be considered as confining smoke to the floor area involved without migration to other floor areas. Any other tested and approved design that will adequately accomplish smoke containment is permitted.
6. Category f—Each stairway shall be one of the following: a smokeproof enclosure in accordance with Section ~~1022.10~~ 1022.9 of the *International Building Code*; pressurized in accordance with Section 909.20.5 of the *International Building Code*; or shall have operable exterior windows.

[B] 1401.6.11 Means of egress capacity and number.

Evaluate the means of egress capacity and the number of exits available to the building occupants. In applying this section, the means of egress are required to conform to the following sections of the *International Building Code*: 1003.7, 1004, ~~1005.1-1005~~, 1014.2, 1014.3, 1015.2, 1021, 1024.1, 1027.2, ~~1027.5-1027.6~~, 1028.2, 1028.3, 1028.4 and 1029. The number of exits credited is the number that is available to each occupant of the area being evaluated. Existing fire escapes shall be accepted as a component in the means of egress when conforming to Section 405.

Under the categories and occupancies in Table 1401.6.11, determine the appropriate value and enter that value into Table 1401.7 under Safety Parameter 1401.6.11, Means of Egress Capacity, for means of egress and general safety.

[B] 1401.6.19 Incidental uses.

Evaluate the protection of incidental uses in accordance with Section ~~509.4.2-508.2.5.2~~ of the *International Building Code*. Do not include those where this code requires automatic sprinkler systems throughout the building including covered and open mall buildings, high-rise buildings, public garages and unlimited area buildings. Assign the lowest score from Table 1401.6.19 for the building or floor area being evaluated and enter that value into Table 1401.7 under Safety Parameter 1401.6.19, Incidental Uses, for fire safety, means of egress and general safety. If there are no specific occupancy areas in the building or floor area being evaluated, the value shall be zero.

**[B] TABLE 1401.6.19
INCIDENTAL USE AREA VALUES**

PROTECTION REQUIRED BY TABLE 508.2.5 OF THE <i>INTERNATIONAL BUILDING CODE</i>	PROTECTION PROVIDED						
	None	1 hour	AS	AS with SP	1 hour and AS	2 hours	2 hours and AS
2 hours and AS	-4	-3	-2	-2	-1	-2	0
2 hours, or 1 hour and AS	-3	-2	-1	-1	0	0	0
1 hour and AS	-3	-2	-1	-1	0	-1	0
1 hour	-1	0	-1	-1	0	0	0
1 hour, or AS with SP	-1	0	-1	-1	0	0	0
AS with SP	-1	-1	-1	-1	0	-1	0
1 hour or AS	-1	0	0	0	0	0	0

AS = Automatic sprinkler system;
 SP = Smoke partitions (See IBC Section ~~509.4~~ 508.2.5).
Note: For Table 1401.7, see page 68.

CHAPTER 15

CONSTRUCTION SAFEGUARDS

SECTION 1501 GENERAL

[B] 1501.5 Fire safety during construction.

Fire safety during construction shall comply with the applicable requirements of the *International Building Code* and the applicable provisions of Chapter ~~33~~14 of the *International Fire Code*.

SECTION 1507 AUTOMATIC SPRINKLER SYSTEM

[F] 1507.1 Completion before occupancy.

In portions of a building where an automatic sprinkler system is required by this code, it shall be unlawful to occupy those portions of the building until the automatic sprinkler system installation has been tested and approved, except as provided in ~~Section 110.3~~ NC General Statutes 153A-363 and 160A-423.

CHAPTER 16 REFERENCED STANDARDS

ASME

American Society of Mechanical Engineers
3 Park Avenue
New York, NY 10016

Standard Reference Number	Title	Referenced in code section number
ASME/ A17.1—2007/ CSA B44—2007	Safety Code for Elevators and Escalators—with A17.1a/CSA B44a—08 Addenda	410.8.2, 705.1.2 <u>806.1.2</u> , 902.1.2 <u>902.1.3</u>
A17.3—2008	Safety Code for Existing Elevators and Escalators	902.1.2 <u>902.1.3</u>
A18.1—2008	Safety Standard for Platform Lifts and Stairway Chair Lifts	410.8.3, 705.1.3 <u>806.1.3</u>

ASTM

ASTM International
100 Barr Harbor Drive
~~West Conshohocken, PA 19428-2959~~ (Deleted)

Standard Reference Number	Title	Referenced in code section number
C 90—08	Standard Specification for Load-bearing Concrete-Masonry Units	
C 496—96	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens	<u>A505.2.3</u>
E 519—00e1	Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages	<u>A104, A106.3.3.2</u> <u>A104, A106.3.3.2</u>

DOC

~~United States Department of Commerce~~
~~1401 Constitution Avenue, NW~~
~~Washington, DC 20230~~ (Deleted)

Standard Reference Number	Title	Referenced in code section number
PS 1—09	Structural Plywood	<u>A302</u>

ICC

International Code Council, Inc.
500 New Jersey Avenue, NW, 6th Floor
Washington, DC 20001

Standard Reference Number	Title	Referenced in code section number
IBC— 12 09	International Building Code [®]	101, 106, 109, 110, 202, 301, 407, 410, 501, 601, 602, 606, 701, 702, 705, 706, 801, 802, 803, 804, 805, 806, 807, 904, 905, 907, 1001, 1002, 1007, 1011, 1012, 1102, 1103, 1104, 1201, 1202, 1203, 1204, 1205, 1301, 1302, 1201 1401, 1501, 1506
ICC A117.1—2009	Accessible and Usable Buildings and Facilities	410.6, 410.8.2, 705.1, 705.1.2, 705.1.3 806.1.2, 806.1.3
IFC— 12 09	International Fire Code [®]	101.4.2, 301.1.1, 803.2.1, 803.2.3, 804.4.1.1, 804.4.1.2, 804.4.1.3, 804.4.1.4, 804.4.1.5, 804.4.1.6, 804.4.1.7, 804.4.3, 1301.2, 1401.3.2, 1401.6.8.1, 1401.6.14, 1401.6.14.1, 1501.5, 1504.1, 1504.2
	International Fuel Gas Code [®]	
IFGC— 12 09		407.7, 702.4.1
IMC— 12 09	International Mechanical Code [®]	407.8, 702.4, 809.1, 902.1.1 902.1.2, 1002.2.1, 1009.1, 1401.6.7.1, 1401.6.8, 1401.6.8.1

IPC— 12 09	International Plumbing Code®	407.9, 609.1 609.2, 702.4, 810.1, 1010.2, 1010.3, 1010.5 1010, 1501.5 <u>1501.7</u>
	International Property Maintenance Code Ⓢ (Deleted)	101.4.2, 1301.2, 1401.3.2
IPMC—12		
IRC— 12 09	International Residential Code®	101.4.1, 602.3, 606, 706.2.1 <u>706.2,</u> 707.1, 807.4, 808.3, 811.1, 907.4, 907.4.2, <u>908.1,</u> 1103.2, 1103.3, 1103.4, 1104.1, <u>1301.2,</u> 1302.1, 1302.2, 1302.2.1, 1302.3, 1302.4, 1302.5, <u>1401.2.2, 1401.2.3</u>

NFPA

National Fire Protection Agency
1 Batterymarch Park
Quincy, MA 02269-9101

Standard Reference Number	Title	Referenced in code section number
NFPA 13R—10	Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height	804.2.5 <u>904.1.5</u>
NFPA 70—11	National Electrical Code	607.1.1, 607.1.2, 607.1.3, 607.1.4, 607.1.5, <u>702.4</u>
NFPA 72—10	National Fire Alarm Code	804.2.5, 804.4 <u>403.6, 804.4.1.1,</u> <u>804.4.1.2</u>

Appendix A: Guidelines for the Seismic Retrofit of Existing Buildings

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

CHAPTER A1 SEISMIC STRENGTHENING PROVISIONS FOR UNREINFORCED MASONRY BEARING WALL BUILDINGS

SECTION A105 GENERAL REQUIREMENTS

[B] A105.4 Structural observation, testing and inspection.

Structural observation, in accordance with Section ~~1709~~ 1714 of the *International Building Code*, shall be required for all structures in which seismic retrofit is being performed in accordance with this chapter. Structural observation shall include visual observation of work for conformance with the approved construction documents and confirmation of existing conditions assumed during design.

Structural testing and inspection for new construction materials shall be in accordance with the building code, except as modified by this chapter.

CHAPTER A2 EARTHQUAKE HAZARD REDUCTION IN EXISTING REINFORCED CONCRETE AND REINFORCED MASONRY WALL BUILDINGS WITH FLEXIBLE DIAPHRAGMS

SECTION A205 GENERAL REQUIREMENTS

[B] A205.4 Structural observation, testing and inspection.

Structural observation, in accordance with Section ~~1709~~-1714 of the *International Building Code*, shall be required for all structures in which seismic retrofit is being performed in accordance with this chapter. Structural observation shall include visual observation of work for conformance to the approved construction documents and confirmation of existing conditions assumed during design.

CHAPTER A6 REFERENCED STANDARDS

ASCE/SEI

American Society of Civil Engineers
Structural Engineering Institute
1801 Alexander Bell Drive
Reston, VA 20191-4400

Standard reference number	Title	Referenced in code section number
7—05	Minimum Design Loads for Buildings and Other Structures with Supplement No. 1	A104, A403.3
31—03	Seismic Evaluation of Existing Buildings	<u>A504.1</u> , A505.1
41—06	Seismic Rehabilitation of Existing Buildings	A503.2, A506.3.2, A507.1

ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Standard Reference Number	Title	Referenced in code section number
A653/A653M—08	Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process	A304.2.6
C90—2003	Standard Specification for Load-bearing Concrete- Masonry Units (Deleted)	A505.2.3
C496—96	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens	A104, A106.3.3.2
E519—00e1	Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages	A104, A106.3.3.2

DOC

U.S. Department of Commerce
National Institute of Standards and Technology
100 Bureau Drive Stop 3460
Gaithersburg, MD 20899

Standard Reference Number	Title	Referenced in code section number
PS-1—95	Construction and Industrial Plywood	A302
PS-2—92	Performance Standard for Wood-based Structural-use Panels	A302

ICC

International Code Council
500 New Jersey Avenue, NW, 6th Floor
Washington, DC 20001

Standard Reference Number	Title	Referenced in code section number
BNBC—93	BOCA National Building Code [®]	A502
BNBC—96	BOCA National Building Code [®]	A502
BNBC—99	BOCA National Building Code [®]	A502
IBC—00	International Building Code [®]	A202, A502
IBC—03	International Building Code [®]	A202, A502
IBC—06	International Building Code [®]	A502 A102.2, A103, A108.2, A203, A205.4, A206.2, A301.2, A403.11.2.1, A408.1, A505.2.3, A505.3, A508.4 A202, A502
IBC—09	International Building Code [®]	A102.2, A105.4, A108.2, A202, A203, A204.1, A205.1, A205.4, A206.1, A206.3, A206.9, A403.1, A405.1, A407.1, A408.1, A502.1, A503.3, A506.4, A508.4
SBC—94	Standard Building Code [®]	A502
SBC—97	Standard Building Code [®]	A502
SBC—99	Standard Building Code [®]	A202, A502

UBC—76	Uniform Building Code [®]	
UBC—97	Uniform Building Code [®]	A502 A102.2 , A103, A104, A108.2, A202, A203 , A206.2 , A301.2 , A401.2 , A403.1 , A403.2 , A403.3 , A403.4 , A403.7 , A403.11.2.2 , A405.2.3 , A406.2 , A406.3.2.1 , A408.1 , <u>A502</u>
UBC—Standard 21-4	Hollow and Solid Load-bearing Concrete Masonry Units	
UBC—Standard 21-6	In-place Masonry Shear Tests	A106.2
UBC—Standard 21-7	Tests of Anchors in Unreinforced Masonry	A104 A105.3, A107.3, A107.4, Table A1-E
UBC—Standard 21-8	Pointing of Unreinforced Masonry Walls	
UBC—Standard 23-2	Construction and Industrial Plywood (Deleted)	A103, A106.3.3.9 <u>A403.11.2.1</u>

APPENDIX B

SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS FOR EXISTING BUILDINGS AND FACILITIES

~~The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.~~

The provisions contained in this appendix are adopted as part of this code.

B101.4.2 Certified local government historic preservation programs.

Where the state historic preservation officer has delegated the consultation responsibility for purposes of this section to a local government historic preservation program that has been certified in accordance with Section 101 of the National Historic Preservation Act of 1966 [(16 U.S.C. 470a(c)) and implementing regulations (36 CFR 61.5), the responsibility shall be permitted to be carried out by the appropriate local government ~~body or official~~ historic preservation program.

SECTION B104 REFERENCED STANDARDS

Y3.H626 2P National Historic Preservation J101.2, 43/933 Act of 1966, as amended J101.3, 3rd Edition, Washington, DC: J101.3.2 US Government Printing Office, 1993.

~~2012 2009 International Building Code- Washington, DC: International Code Council, 2011.~~

49 CFR Part 37.43 (c), Alteration of Transportation Facilities by Public Entities, Department of Transportation, 400 7th Street SW, Room 8102, Washington, DC 20590-0001.

36 CFR Part 1192, Americans with Disabilities Act (ADA) Accessibility Guidelines for Transportation Vehicles

APPENDIX C: Guidelines for the Wind Retrofit of Existing Buildings

(Deleted)

CHAPTER C1 GABLE END RETROFIT FOR HIGH-WIND AREAS

(Deleted)

CHAPTER C2 ROOF DECK FASTENING FOR HIGH-WIND AREAS

(Deleted)

RESOURCE A
RECOMMENDED GUIDELINES ON FIRE RATINGS OF
ARCHAIC MATERIALS AND ASSEMBLIES

(Note to ICC: There are no NC amendments to Resource A publication.)

(the index will be updated by ICC)

INDEX