

North Carolina Building Code Council

Staffed by the NC Department of Insurance

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Building Code Council

Chairman:

Dan Tingen -11
(Home Builder)

November 13, 2007

Vice Chairman:

John Hitch, AIA -10
(Architect)

Dan Tingen
Tingen Construction Company
8411 Garvey Drive/#101
Raleigh, NC 27616

Members:

J. Albert Bass, Jr., PE -
09
(Mechanical Engineer)

RE: Agenda for the December 10 - 11, 2007 NC Building Code Council Meeting.

Lon Culbertson -07
(Electrical Engineer)

Mr. Tingen:

Terry B. Greene -07
(Gas Industry)

This is officially to notify you and other interested parties of a regularly scheduled meeting of the NC Building Code Council. The December NC Building Code Council meeting will be held at the NC Legislative Building, Third Floor Auditorium, 16 West Jones Street, Raleigh. Persons requiring auxiliary services should notify the Council at least ten business days prior to the meeting.

Steve L. Knight -09
(Structural Engineer)

Bradley C. Lail -11
(Public Representative)

Barry J. Maness -09
(Mechanical Contractor)

Dan Murray -11
(State Agency)

Jack F. Neel -10
(Municipal-Gov't Rep)

Mack Nixon -10
(County Gov't Rep)

Alan W. Perdue -09
(Fire Services)

Gordon T. Reynolds -07
(Electrical Contractor)

Robert F. Ruffner, Jr. -09
(General Contractor)

Walter L. Simmons -09
(Building Inspector)

David L. Smith -10
(Coastal Residential
Contractor)

Tom Turner, FAIA -10
(Architect)

1. The Work Session will begin at 9:00AM on Monday, December 10, 2007 and is open to the public on a noncontributing basis.
2. The Public Hearing will begin at 1:00PM on Monday, December 10, 2007. The Council will receive comments for the items marked as "C" at this time. At the close of the hearing, committees may meet.
3. Committee meetings, if any, will be held at the close of the Work Session and Public Hearing.
4. The NC Building Code Council meeting will begin at 9:00AM on Tuesday, December 11, 2007. Appeals, if any, will be heard at the close of the meeting.

Part A – Administrative Items

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

Item A – 2 Approval of minutes of the September 11, 2007 NC Building Code Council Meeting.

Item A – 3 Letter from Governor Easley removing Lon Culbertson from the Board.

Item A – 4 Rules Review Commission meeting report – 10/17/07 and 11/15/07.

Part B – New Petitions for Rulemaking

Item B – 1 Request by Bryan T. Readling, APA – The Engineered Wood Association to amend the 2006 NC Residential Code for One and Two Family Dwellings, Section 4404.4. The proposed amendment is as follows:

4404.4 Exterior Concrete Slab-on-grade Footings. Vertical reinforcement shall be installed at intervals not to exceed Table 4404.1.1 and shall terminate in a double sole plate.

Exception: Vertical reinforcement (anchorage) shall be installed at intervals not to exceed Table 4401.1a. where the bars terminate in a single sole plate. Approved strap anchors or wood structural panels shall be installed to provide a continuous load-path from the single sole plate to the wall.

Item B – 2 Request by Julius Ballanco, President of JB Engineering and Code Consulting, P.C., to amend the 2006 NC Mechanical Code, Section 504.2. The proposed amendment is as follows:

504.2 Exhaust penetrations. Where a clothes dryer exhaust duct penetrates a wall or ceiling membrane, the annular space shall be sealed with noncombustible material, approved fire caulking, or a noncombustible dryer exhaust duct wall receptacle. Ducts that exhaust clothes dryers shall not penetrate or be located within any fireblocking, draftstopping or any wall, floor/ceiling or other assembly required by the International Building Code to be fire-resistance rated, unless such duct is constructed of galvanized steel or aluminum of the thickness specified in Section 603.4 and the fire-resistance rating is maintained in accordance with the International Building Code. Fire dampers, combination fire/smoke dampers and any similar devices that will obstruct the exhaust flow, shall be prohibited in clothes dryer exhaust ducts.

Item B – 3 Request by Curt Willis, Construction Inspections Administrator with the City of Raleigh, to amend the 2006 NC Building Code. The proposed amendment is as follows:

In Multi-family buildings (R-1 and R-2) of combustible construction the soffit material shall be securely attached to framing members and shall be constructed using either non-combustible soffit material, fire retardant treated soffit material, vinyl soffit installed over 3/4 inch wood sheathing of 5/8 inch gypsum board, or aluminum soffit installed over 3/4 inch wood sheathing or 5/8 inch gypsum board. Venting requirements shall apply to both soffit and underlayments and shall be per section 1203.2 of the NCSBC.

Vinyl Siding and vinyl soffit materials when used in Multi-family (R-1 and R-2) and Townhouse (R-3) construction shall have a Flame Spread Index of 25 or less as tested in accordance with ASTM E-84.

Item B – 4 Request by Dan Tingen, Residential Committee, to further amend the proposed 2009 NC Residential Code for One and Two Family Dwellings, Section R302. The proposed amendment is as follows:

Delete the 2006 IRC Section R302, including Table R302.1, and replace with the following language from the 2003 IRC with NC Amendments.

SECTION R302

LOCATION ON LOT

R302.1 Exterior walls. Exterior walls with a fire separation distance less than 3 feet (914mm) shall have not less than a one-hour fire-resistive rating with exposure from both sides. Projections shall not extend to a point closer than 2 feet (610 mm) from the line used to determine the fire separation distance.

Exception: Detached garages accessory to a dwelling located within 2 feet of a lot line shall be permitted to have roof eave projections not exceeding 4 inches.

Projections extending into the fire separation distance shall have not less than one-hour fire-resistive construction on the underside. The above provisions shall not apply to walls which are perpendicular to the line used to determine the fire separation distance.

Exceptions:

1. Tool and storage sheds, playhouses and similar structures exempted from permits by R105.2 are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.

2. In Townhouse construction (with 3 or more attached dwellings) the soffit material shall be securely attached to framing members and shall be constructed using either non-combustible soffit material; fire retardant treated soffit material; vinyl soffit installed over 3/4 inch wood sheathing or 5/8 inch gypsum board; or aluminum soffit installed over 3/4 inch wood sheathing or 5/8 inch gypsum board. Venting requirements shall be provided in both soffit and underlayments. Vents shall be either nominal 2-inch continuous or equivalent intermittent and shall not exceed the minimum net free air requirements established in section R806.2 by more than 50%. Vents in soffit are not allowed within four feet of fire walls or property lines.

R302.2 Openings. Openings shall not be permitted in the exterior wall of a dwelling or accessory building with a fire separation distance less than 3 feet (914 mm). This distance shall be measured perpendicular to the line used to determine the fire separation distance.

Exceptions:

1. Openings shall be permitted in walls that are perpendicular to the line used to determine the fire separation distance.
2. Foundation vents installed in compliance with this code are permitted.

R302.3 Penetrations. Penetrations located in the exterior wall of a dwelling with a fire separation distance less than 3 feet (914 mm) shall be protected in accordance with Section R317.3.

Exception: Penetrations shall be permitted in walls that are perpendicular to the line used to determine the fire separation distance.

(R302.1 Exception 2 is currently in the Rules process under a separate amendment.)

Part C – Notice of Rulemaking Proceedings and Public Hearing

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings has been made. The Public Hearing will be held December 10, 2007 and the Final Adoption meeting may take place on or after March 11, 2008.

Item C – 1 Request by David Smith, Chairman of the Residential Standing Committee, to amend the 2006 NC Residential Code for One and Two Family Dwellings, Section R311.5.6.3. The proposed amendment is as follows:

R311.5.6.3 Handrail grip size. All required handrails shall be of one of the following types or provide equivalent graspability.

1. Type I. Handrails with a circular cross section shall have an outside diameter of at least 1¹/₄ inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular it shall have a perimeter dimension of at least 4 inches (102 mm) and not greater than 6¹/₄ inches (160 mm) with a maximum cross section of dimension of 2¹/₄ inches (57 mm).
2. Type II. Handrails with a perimeter greater than 6¹/₄ inches (160 mm) shall provide a graspable finger recess area on both sides of the profile. The finger recess shall begin within a distance of ³/₄ inch (19 mm) measured vertically from the tallest portion of the profile and achieve a depth of at least ⁵/₁₆ inch (8 mm) within ⁷/₈ inch (22 mm) below the widest portion of the profile. This required depth shall continue for at least ³/₈ inch (10 mm) to a level that is not less than 1³/₄ inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be 1¹/₄ inches (32 mm) to a maximum of 2³/₄ inches (70 mm). Edges shall have a minimum radius of 0.01 inch (0.25 mm).

Exception: Exterior handrails (garages and areas exposed to the weather) shall not be more than 3-1/2 inches in cross-section dimension.

Item C – 2 Request by David Smith, Chairman of the Residential Standing Committee, to amend the 2006 NC Residential Code for One and Two Family Dwellings, Section R302.1. The proposed amendment is as follows:

R302.1 Exterior walls. Exterior walls with a fire separation distance less than 3 feet (914 mm) shall have not less than a one-hour fire-resistive rating with exposure from both sides. Projections shall not extend to a point closer than 2 feet (610 mm) from the line used to determine the fire separation distance.

Exception: Detached garages accessory to a dwelling located within 2 feet of a lot line shall be permitted to have roof eave projections not exceeding 4 inches.

Projections extending into the fire separation distance shall have not less than one-hour fire-resistive construction on the underside. The above provisions shall not apply to walls which are perpendicular to the line used to determine the fire separation distance.

Exceptions:

1. Tool and storage sheds, playhouses and similar structures exempted from permits by Chapter 1 are not required to provide wall protection based on location on the lot. Projections beyond the exterior wall shall not extend over the lot line.
2. In Townhouse construction (with 3 or more attached dwellings) the soffit material shall be securely attached to framing members and shall be constructed using either non-combustible soffit material, fire retardant treated soffit material, vinyl soffit installed over 3/4 inch wood sheathing or 5/8 inch gypsum board, or aluminum soffit installed over 3/4 inch wood sheathing or 5/8 inch gypsum board. Venting requirements shall apply to both soffit and underlayments and shall not exceed the minimum net free air requirements established in section R806.2 by more than 150%. Vents in soffit are not allowed within four feet of property lines.

Item C – 3 Request by the Staff of the NC Department of Insurance to adopt the following codes with the NC Amendments:

- A. 2006 International Building Code, with 2009 NC Amendments – All Accessibility requirements are included in Chapter 11 and the referenced ANSI A117.1 Standard.
- B. 2006 International Energy Conservation Code, with 2009 NC Amendments
- C. 2006 International Fire Code, with 2009 NC Amendments
- D. 2006 International Fuel Gas Code, with 2009 NC Amendments
- E. 2006 International Mechanical Code, with 2009 NC Amendments

- F. 2006 International Plumbing Code, with 2009 NC Amendments
- G. 2006 International Residential Code, with 2009 NC Amendments
- H. 2008 National Electrical Code, with 2008 NC Amendments

2008 NC/NEC 2008 - The Base Document for the 2008 NC Electrical Code is the 2008 NEC.

2009 NC/ICC 2006 – The Base Documents for the 2009 NC State Building Codes are the 2006 I-Codes.

The NC Amendments are proposed replacements to the Sections printed in the Base Documents.

Proposed amendments may be viewed at the following links:

http://www.ncdoi.com/OSFM/Engineering/engineering_home.asp

-STATE BUILDING CODES

-BUILDING CODES - 2009 EDITION - PROPOSED AMENDMENTS

OR

<http://www.ncbuildingcodes.com/OSFM/Engineering/BCC/ncbuildingcodes.asp>

-ADOPTED CODE INFORMATION

-NC STATE BUILDING CODES

-BUILDING CODES - 2009 EDITION - PROPOSED AMENDMENTS

The 2006 I-Codes are available at www.iccsafe.org for purchase.

The 2008 NEC is available at www.nfpa.org for purchase.

Single copies are available by November 1, 2007 for **REVIEW ONLY** at the following locations:

Asheville Inspections	828-259-5846
Davie County Inspections, Mocksville	336-753-6050
NC Department of Insurance, Raleigh	919-661-5880 x 254
Greenville Inspections	252-329-4466

The anticipated adoption date of the 2008 NC Electrical Code and the 2009 NC State Building Codes is March 11, 2008.

The proposed effective date for the 2008 NC Electrical Code is **June 1, 2008**.

The proposed effective date for the 2009 NC State Building Codes is **January 1, 2009**.

Item C – 4 Request by John Hitch, Chairman of the General Construction Standing Committee, to amend the 2006 International Building Code, Table 1017.1 in conjunction with Item 3A above. The Council granted a petition on 9/11/07 to add the following Footnote “f” to Table 1017.1, to “Occupancy B”, unsprinklered. The proposed amendment is as follows:

Table 1017.1 Corridor Fire-Resistance Rating.

f. Exit access corridors are not required to be rated on any single tenant floor or in any single tenant space, when 1-hour rated tenant demising walls are

provided between all tenant spaces and 1-hour rated floor/ceiling assemblies are provided in multi-story buildings.

Part D – Final Adoption

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings and Public Hearing has been made. The Public Hearings were held September 10, 2007. The Final Adoption meeting will take place on December 11, 2007. The Council will give no further consideration to Petitions that are disapproved. Petitions that are approved will proceed through the Rulemaking process.

Item D – 1 Request by David Smith, Chairman of the Residential Standing Committee, to amend the 2006 Building Code and the 2006 NC Residential Code for One and Two Family Dwellings, Section R202. The proposed amendment is as follows:

R202 Definitions. WINDBORNE DEBRIS REGION. Areas within hurricane-prone regions ~~within 1500 feet (0.452 km) of the mean high water line of the Atlantic Ocean~~ defined as that area east of the inland waterway from the NC/SC State line north to Beaufort Inlet; from that point to include the barrier islands to the NC/VA State line.

1609.2 DEFINITIONS. WIND-BORNE DEBRIS REGION. Areas within hurricane-prone regions 1500 feet (456 m) of the mean high water line of the Atlantic Ocean defined as that area east of the inland waterway from the NC/SC State line north to Beaufort Inlet; from that point to include the barrier islands to the NC/VA State line.

Item D – 2 Request by David Smith/Barry Gupton, Residential Ad Hoc Committee, to amend the 2006 NC Residential Code, Figure R403.1(1), Section R403.1.4, Table R403.1. The proposed amendment is as follows:

Figure R403.1(1), Note 1 – Foundation shall extend not less than 12 inches below the finished ~~natural~~ grade or engineered fill and in no case less than the frost line depth. The bottom of the footing shall be supported on natural soil or engineered fill.

Section R403.1.4 Minimum depth. All exterior footings and foundation systems shall extend below the frost line specified in Table R301.2(1). In no case shall the bottom of the exterior footings be less than 12 inches (305 mm) below finished grade or engineered fill.

Exception: Frost protected footings constructed in accordance with Section R403.3 and foots and foundations erected on solid rock shall not be required to extend below the frost line.

In Seismic Design Categories D₁ and D₂, interior foots supporting bearing walls or bracing walls and cast monolithically with a slab on grade shall extend to a depth of not less than 18 inches (457 mm) below the top of the slab.

Table R403.1 – In 1,500 and 2,000-psf columns, change all values 12 and 15-inch widths to 16-inch.

Add footnote: A minimum footing width of 12 inches is acceptable for monolithic slab foundations.

Part E – Reports

Chairman’s Report

Ad Hoc Committee Reports

Standing Committee Reports

Staff Reports

Public Comments

Part F – Appeals

Sincerely,



Christian Noles, P.E.
Secretary, NC Building Code Council