

Minutes of the North Carolina Building Code Council
September 14th, 2010
Raleigh, NC

All members of the North Carolina Building Code Council were present for the Public Hearing and Meeting with the exception of Paula Strickland and Jack Neel.

The following are summary minutes. The official minutes of this meeting are recorded on CD. Anyone desiring verbatim CDs or excerpts from these CDs should contact the Engineering Division of the NC Department of Insurance for information and reproduction costs. The next scheduled NC Building Code Council meeting will be held December 13-14, 2010 at the NC Department of Insurance, 322 Chapanoke Road, Raleigh, North Carolina, 27603 in the Downstairs Classroom.

Before the meeting, the Chairman recognized a thank you card from Ann Knight regarding sympathies following her mother's passing.

The chairman also recognized the reappointments of Mack Nixon, David Smith and John Hitch. The Chairman also recognized Tom Turner and Jack Neel for their service since they will not apply for reappointment.

Part A – Administrative Items

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

There were no actual or potential conflicts of interest noted.

Item A – 2 Approval of minutes of the June 15, 2010 NC Building Code Council Meeting.

The motion to approve the minutes was made and seconded. The motion was approved unanimously.

Item A – 3 NCDOI News

Barry Gupton on staff identified a newsletter from Commissioner Goodwin reporting Insurance rates based on hazard mitigations along the coast of North Carolina.

Item A – 4 Town of Atlantic Beach Fire Code Ordinance

Motion – Al Bass/Second – Alan Perdue/Passed – The request was granted unanimously.

Item A – 5 Buncombe County Fire Code Ordinance

Motion – Alan Perdue/Second – Hawley Truax/Passed – The request was granted unanimously.

[As part of the discussion within A-5, the board indicated a general approach that future changes continue to be reviewed by staff, but reported to the board for approval]

Item A – 6 Rules Review Commission Meeting Report

Item A – 7 Public Comments

There were no comments from the public.

Part B – New Petitions for Rulemaking

The following Petitions for Rulemaking have been received since the last Council meeting. The Council will vote either to deny or grant these Petitions. The Council will give no further consideration to Petitions that are denied. Petitions that are granted may proceed through the Rulemaking process. The Council may send any Petition to the appropriate committee. The public hearing regarding these petitions will take place during or after the December 2010 meeting.

Item B – 1 2011 NEC Amendments

A petition put forward by Cindy Browning to adopt the ad-hoc committee amendments to the 2011 NEC for publication as the 2011 NC Electrical Code.

Motion – Mack Nixon/Second – Cindy Browning/Denied – The Petition was denied unanimously.

[Note: During the time for the motion, the Chairman identified that it was his understanding that the consensus of the board wanted the Electrical code to be approved for enforcement on January 1, 2012. The Chairman also identified that after the work of the ad-hoc committee and the standing committee began,

the petition could be brought forward. The Chairman then asked for a motion to deny the petition.

At the protest of Kim Reitterer, the Chairman recognized and accepted Mack Nixon and Cindy Browning's motion to deny the motion]

Item B – 2 Request by Daniel F. Paul, with Novacomm Inc., to amend the 2009 NC Building Code, Section 1008.1.8.6.1. The proposed amendment is as follows:

1008.1.8.6.1 Delayed egress system. Approved, listed electromagnetic delayed egress locking systems shall be permitted to be installed at entry locations only of B occupancies, bank use, that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an approved automatic smoke or heat detection system installed in accordance with Section 907, provided that doors are supervised by an attendant during open business hours and in accordance with all Items 1 through 10 below. A building occupant shall not be required to pass through more than a single, two door system equipped with delayed egress locks before entering an exit. The entire exit process shall be visible to the occupant and the attendant.

1. The doors unlock upon actuation of the automatic sprinkler system or fire detection system.
2. The doors unlock upon loss of power controlling the locks or lock mechanism.
3. The doors unlock upon loss of power for the fire detection system.
4. The doors unlock upon loss of power for the emergency lighting system.
5. The door locks shall have the capability of being unlocked by a signal from the fire command center.
6. The door locks shall have the capability of being unlocked by a signal from the attendant console.
7. Doors deactivate from a primary override secure switch located on the exterior of the building.
8. The initiation of an irreversible process which will release the locks of both doors in not more than 15 seconds total delay when a force of not more than 15 pounds (67N) is applied for 1 second to the initial release device. Initiation of the release shall allow an automatically resettable process to occur if the building security status allows opening in less than 15 seconds.

- a. The timing process shall initiate and control a status system including both audible and visual components installed at each door describing the status at the individual door.
 - b. The timing and release process may not be field adjustable.
9. A sign shall be provided at each door controlled by delayed egress locks, located above and within 12 inches (305 mm) of the release device reading:
PUSH UNTIL DOOR OPENS.
DOOR WILL OPEN IN 15 SECONDS OR LESS
Signage shall be high contrast with 1" high letters, 1/4" minimum stroke.
10. Emergency lighting shall be provided throughout the two door system.

Motion – Alan Perdue/Second – Ralph Euchner/Denied – The Petition was denied unanimously.

Item B – 3 Request by Curt Willis and Rusty Styons, to amend the 2009 NC Residential Code, Sections R703.11.2 and R703.11.3. The proposed amendment is as follows:

R703.11.2 Soffit. In One- and Two-Family Dwelling construction using vinyl or aluminum as a soffit material, the soffit material shall be securely attached to framing members and use an underlayment material of either: fire retardant treated wood, 3/4 inch wood sheathing or 5/8 inch gypsum board. Venting requirements shall apply to both soffit and underlayment and shall be per section R806 of the North Carolina Residential Code. Where the property line is 10 feet or more from the building face, the provisions of this code section shall not apply.

R703.11.3 Flame Spread. Vinyl siding and vinyl soffit materials when used in One- and Two-Family Dwelling construction shall have a Flame Spread Index of 25 or less as tested in accordance with ASTM E-84.

Motion – David Smith/Second – Mack Nixon/Passed – The Petition was granted unanimously.

Item B – 4 Request by David Smith, Building Code Council, to amend the 2012 NC Residential Code, Section N1101.5. The proposed amendment is as follows:

N1101.5 Fenestration product rating and glass deflection. U-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled U-factor shall be assigned a default U-factor from Tables N1101.5(1) and N1101.5(2). The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table N1101.5(3).

Glass collapse/gap width reduction shall not exceed the limits set by the During Plant Inspection Checklist, of the NFRC, Certification and Inspection Agency (IA) Operations Manual (First Edition). Compliance shall be determined by an accredited, independent laboratory, and labeled and certified by the manufacturer.

Motion – David Smith/Second – Lon McSwain/Passed – The Petition was granted unanimously.

Item B – 5 Request by David Smith, Building Code Council, to amend the 2012 NC Energy Conservation Code, Section 303.1.3. The proposed amendment is as follows:

303.1.3 Fenestration product rating and glass deflection. U-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled U-factor shall be assigned a default U-factor from Table 303.1.3(1) or 303.1.3(2). The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table 303.1.3(3).

Glass collapse/gap width reduction shall not exceed the limits set by the During Plant Inspection Checklist, of the NFRC,

Certification and Inspection Agency (IA) Operations Manual (First Edition). Compliance shall be determined by an accredited, independent laboratory, and labeled and certified by the manufacturer.

Motion – David Smith/Second – Hawley Truax/Passed – The Petition was granted unanimously.

Part C – Notice of Rulemaking Proceedings and Public Hearing

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings has been made. The Public Hearing was held September 14, 2010 and the Final Adoption meeting may take place on or after December 14, 2010. The written public comment period expires on October 15, 2010. Contact the Engineering Division for copies of written public comment or recordings of the Item C testimony.

Item C – 1 Request by Curt Willis and Rusty Styons, to amend the 2009 NC Residential Code, Sections R703.11. The proposed amendment is as follows:

R703.11.2 Soffit. In One- and Two-Family Dwellings 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 ¾ inch wood sheathing or 5/8 inch gypsum board, or aluminum soffit installed over ¾ inch wood sheathing or 5/8 inch gypsum board. Venting requirements shall apply to both soffit and underlayment and shall be per section R806 of the NCSRC.

R703.11.3 Flame Spread. Vinyl siding and vinyl soffit materials, when used in One- and Two-Family Dwelling construction, shall have a Flame Spread Index of 25 or less as tested in accordance with ASTM E-84.

David Smith identified that the item has been sent to the residential committee with a result of changing the petition regarding the underlayment and the addition of separation from the property line. Due to the substantial changes, this item will be re-advertised for public comment for the December meeting.

Curt Willis, recommends the Council adopt the code changes that came from the residential committee.

Item C – 2 Request by James Bartl, with Mecklenburg County and Jim Tschupp, with the City of Raleigh, to amend the 2009 NC Building Code; Administrative Code and Policies, Section 106.2.3.1. The proposed amendment is as follows:

106.2.3.1 Building Information Modeling – Integrated Project Delivery Projects

Projects employing a Building Information Modeling – Integrated Project Delivery (BIM-IPD) process will replace the requirements of 106.2.3, with the following permitting and inspection steps:

a). At the project start, the owner’s project team (Architect, Engineer, Contractor, et al) will reach agreement with the Code Enforcement Official (CEO) on the prevailing code compliance strategy for the full scope of the project, to be documented in an electronic Appendix B format or an equivalent format, acceptable to the CEO.

b). The CEO will issue a single project master permit, based on the initial project description and code compliance strategy agreement.

c). The CEO will work collaboratively to review building components or details as scheduled by the owner’s project team.

d). Concurrence on compliance with the code, with respect to both the model and built product, will be gained before inspections are approved.

e). The owner’s project team will submit an as built model, at project substantial completion, documenting compliance with the NC State Building Code, for records retention by the AHJ.

Jim Bartl, with Mecklenburg County, asked that staff table the petition and keep the action from moving forward until the respective committees have completed their work.

This item has been sent back to Committee for review.

Item C – 3 Request by Alan Perdue and Lon McSwain to amend the 2012 NC Residential Code, Section R501.3. The proposed amendment is as follows:

R501.3 Fire Protection of Floors. Floor assemblies, not required elsewhere in this code to be fire resistance rated, shall be provided with a ½-inch gypsum wallboard membrane, 5/8-inch wood

structural panel membrane, or equivalent on the underside of the floor framing member.

Exceptions:

1. Floor assemblies located directly over a space protected by an approved automatic sprinkler system in accordance with NFPA 13D, or other approved equivalent sprinkler system.
2. Floor assemblies located directly over a crawl space not intended for storage or fuel-fired appliances.
3. Portions of floor assemblies can be unprotected when complying with the following:
 - 3.1 The aggregate area of unprotected portions shall not exceed 80 square feet per story.
 - 3.2 Fire blocking in accordance with R302.11.1 shall be installed along the perimeter of the unprotected portions to separate the unprotected portion from the remainder of the floor assembly.
4. Wood floor assemblies using dimension lumber or structural composite lumber equal to or greater than 2-inch by 10 inch nominal dimension, or other approved floor assemblies demonstrating equivalent fire performance.

Jon Leonard, Charlotte Fire Prevention Bureau, recommends the Council adopt this code change.

Robert Privott, NCHBA, opposed the code change.

Item C – 4 Request by Alan Perdue to amend the 2012 NC Residential Code, Sections R302.2 and R313.1. The proposed amendment is as follows:

R302.2 Townhouses. Each *townhouse* shall be considered a separate building and shall be separated by fire-resistance-rated wall assemblies meeting the requirements of Section R302.1 for exterior walls.

Exception: If an automatic residential fire sprinkler is installed, a common 1-hour fire-resistance-rated wall assembly tested in accordance with ASTM E119 or UL263 is permitted for townhouses if such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight

against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with Section R302.4.

R313.1 Townhouse Automatic Fire Sprinkler Systems. An automatic residential fire sprinkler system shall be installed in townhomes.

Exceptions:

1. Townhomes constructed with a common 2-hour fire resistance rated wall in accordance with ASTM E119 or UL 263 provided such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. The wall shall be rated for fire exposure from both sides and shall extend to and be tight against exterior walls and the underside of the roof sheathing. Electrical installations shall be installed in accordance with Chapters 34 through 43. Penetrations for electrical outlet boxes shall be in accordance with Section R302.4.
2. An automatic residential fire sprinkler system shall not be required when additions or alternations are made to existing townhomes that do not have an automatic residential fire sprinkler system installed.

There were no comments from the public.

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 June 15, 2010. The Final Adoption meeting took place on September 14, 2010. 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 Robert Kinniburgh, to amend the 2009 NC Fire Prevention Code, Section 2403. The proposed amendment is as follows:

SECTION 2403 – TEMPORARY TENTS, CANOPIES AND MEMBRANE STRUCTURES

2403.5 Use Period. Temporary tents, air-supported, air inflated or tensioned membrane structures and canopies ~~shall not be erected for period more than 180 days within a 12 month period on a single premise~~ shall be erected for a period of less than 180 consecutive days or a maximum of 179 days in any 12 month period.

2403.8.2 Location. Tents and canopies or membrane structures shall not be located within 20 feet (6096 mm) of lot lines, buildings, other tents, canopies or membrane structures, parked vehicles or internal combustion engines. For the purpose of determining required distances, support ropes and guy wires shall be considered part of the temporary membrane structure, tent or canopy.

Exceptions:

1. Separation distance between membrane structures, tents and canopies not used for cooking, is not required when the aggregate floor area does not exceed 15,000 square feet (1394 m²).
2. Membrane structures, tents and canopies need not be separated from buildings when all of the following conditions are met:
 - 2.1 The aggregate floor area of the membrane structure, tent or canopy shall not exceed 10,000 square feet (929 m²).
 - ~~2.2 The aggregate floor area of the building and membrane structure, tent or canopy shall not exceed the allowable floor area including increases as indicated in the *International Building Code*.~~
 - 2.3 Required means of egress provisions are provided for both the building and the membrane structure, tent or canopy, including travel distance.
 - 2.4 Fire apparatus access roads are provided in accordance with Section 503.

Motion – Alan Perdue/Second – Lon McSwain/Approved – The motion was made to hold Item until the December meeting and was referred back to the Fire Committee for review.

Item D – 2 Request by Art Weirauch, with Omega Flex, Inc., to amend the 2009 NC Fuel Gas Code, Section 310.2. The proposed amendment is as follows:

Add to Section 310.2

Exception: CSST which has been tested and shown to be resistant to lightning energy shall be bonded in accordance with the National Electrical Code NFPA 70 and the CSST manufacturer’s installation instructions.

Motion – Ralph Euchner/Second – Alan Perdue/Denied – The motion was disapproved unanimously.

Item D – 3 Request by David Smith, Building Code Council, to amend the 2009 NC Residential Code, FIGURE R301.2(4). The proposed amendment is as follows:

BASIC DESIGN WIND VELOCITIES FOR MOUNTAIN REGIONS

**FIRST FLOOR FINISH CONTROLLING ELEVATION IN FEET^{1,2,3,4,5}
DESIGN WIND (MPH)**

Less than 2,700 or less	90
2,700 to <u>less than</u> 3,000 feet	100
3,000 to <u>less than</u> 3,500 feet	110
3,500 to <u>less than</u> 4,500 feet	120
4,500 feet <u>or greater and above</u>	130

For SI: 1 foot = 304.8, 1 mile per hour = 0.44 m/s.

- ~~1. Wind velocities are to apply to all mountain tops, crests, knobs, or peaks as named on the USGS Quadrangle maps.~~
- ~~2. Effect of the 130 mph wind is to extend downward from crest for 200 feet or to the controlling elevation for 120 mph wind, whichever is the lesser.~~
- ~~3. Effect of the 120 mph wind is to extend downward from crest for 100 feet or to the controlling elevation for 110 mph wind, whichever is the lesser.~~
- ~~4. Effect of the 110 mph wind is to extend downward from crest for 70 feet or to the controlling elevation for 100 mph wind, whichever is the lesser.~~
- ~~5. Effect of the 100 mph wind is to extend downward from crest for 50 feet or to the controlling elevation for 90 mph wind, whichever is the lesser.~~

FIGURE R301.2(4)—continued BASIC DESIGN WIND SPEEDS FOR 50-YEAR MEAN RECURRENCE INTERVAL – Delete the Mountain Peak DIAGRAM

Motion – David Smith/Second – Hawley Truax/Granted – The motion was adopted unanimously.

Item D – 4 Request by David Smith, Building Code Council, to amend the 2009 NC Residential Code, Section R202 Definitions. The proposed amendment is as follows:

ATTIC STORAGE. A floored area, regardless of size, within an attic space that is served by an attic access.

Exception: A floor walkway not less than 24 inches wide or greater than 48 inches wide that serves as an access for the service of utilities and/or equipment, and a level service space not less than 30 inches deep or greater than 48 inches deep and not less than 30 inches wide or greater than 48 inches wide at the front or service side of the appliance, shall not be considered as attic storage. Such floored area shall be labeled at the attic access opening, “NOT FOR STORAGE”. The lettering shall be a minimum of 2 inches in height.

Motion – David Smith/Second – Mack Nixon/Granted – The motion was adopted unanimously.

Item D – 5 Request by Kevin Cochran, with Free Rain, to amend the 2009 NC Plumbing Code, APPENDIX I. The proposed amendment is as follows:

SECTION I101 GENERAL

I101.1 Scope. The provisions of this appendix shall govern the materials, design, construction and installation of rain water systems for automatic clothes washers, flushing of water closets, flushing of urinals, and cooling tower make up water, and cleaning applications (i.e. equipment washing, floor washing, indoor/outdoor spigots). Nothing in this appendix shall be construed to restrict the use of rain water for outdoor irrigation.

I101.3 Definition. The following terms shall have the meaning shown herein.

CONDENSATE. Condensed water collected from the surfaces of an air conditioning unit’s evaporator coils or a dehumidifier unit’s evaporator coils.

RAIN WATER. Water collected from runoff of roofs or other structures after a rain event. Rain water may also include condensate.

I101.4 Permits. Check with the local authority having jurisdiction for permit requirements.

I101.5 Installation. In addition to the provisions of Section I101, systems for flushing of water closets, flushing of urinals, and cooling tower make up water shall comply with Section I102. Except as provided for in Appendix I, all systems shall comply with the provisions of the 2006 North Carolina State Plumbing Code.

I101.6 Materials. Above-ground drain, waste and vent piping for rain water systems shall conform to one of the standards listed in Table 702.1. Rain water underground building drainage and vent pipe shall conform to one of the standards listed in Table 702.2.

I101.7 Tests. Drain, waste and vent piping for rain water systems shall be tested in accordance with Section 312.

I101.8 Inspections. Check with the local authority having jurisdiction for inspection requirements.

I101.9 Potable water connections. Only connections in accordance with Section I102.3 shall be made between a rain water harvesting system and a potable water system.

I101.10 Collection reservoir. Rain water shall be collected in an approved reservoir constructed of durable, nonabsorbent and corrosion-resistant materials. The reservoir shall be a closed vessel. Access openings shall be provided to allow inspection and cleaning of the reservoir interior.

I101.11 Filtration. Rain water shall pass through filter system suitable for intended use prior to distribution.

I101.12 Overflow. The overflow pipe discharge shall indirectly flow to the normal storm water drainage system and shall be sized equal to or larger than the influent pipe.

I101.13 Drain. A method for draining the collection reservoir shall be provided and shall not be connected to the sanitary drainage.

I101.14 Venting required. The reservoir shall be provided with venting to allow for the induction and release of air to allow for the proper operation of the reservoir.

**SECTION I102 SYSTEMS FOR FLUSHING WATER CLOSETS
AND URINALS**

I102.2 Disinfection. Rain water shall be disinfected by an approved method that employs one or more disinfectants, such as chlorine, iodine, ozone, UV, or other approved disinfectants.

I102.3 Makeup water. Potable water shall be supplied as a source of makeup water for the rain water system. The potable water supply shall be protected against backflow by the installation of an air gap device or in accordance with Section 608.

I102.4 Materials. Distribution piping shall conform to one of the standards listed in Table 605.4.

I102.5 Identification. Distribution plumbing fixtures and reservoirs shall be identified as containing non-potable water. Piping shall be purple and identified in accordance with Section 608.8.

Motion – Al Bass/Second – Ralph Euchner/Denied – The motion was disapproved unanimously and was referred back to the Plumbing Committee for review.

Item D – 6 2012 NC Building Code Amendments

A petition put forward by John Hitch to adopt the Standing Committee amendments to the 2009 ICC Building Code for publication as the 2012 NC Building Code.

Errata: Section 1609.1.2 needs to be “130 mph” needs to be changed to “140 mph” and “30ft” needs to be changed to “45 ft.”,

Motion to accept the amendment to the motion addressing Section 1609.1.2 was made by Steve Knight/Second by Lon McSwain – the motion was adopted unanimously.

Errata: Section 2303.4.2 [need language from Barry]

Motion to accept the amendment to the motion addressing Section 2303.4.2 was made by Steve Knight/Second by Lon McSwain – the motion was adopted unanimously.

Errata: Replace the ANSI A117.1- __ with ANSI A117.1-08

John Hitch identified that the 2008 ANSI A117.1 will be available to council members this fall, but should be adopted as part of this motion.

Motion to accept an amendment to the motion regarding the technical reference document of the 2008 ANSI A117.1 – John Hitch/Second – Cindy Browning/Granted – The motion was adopted unanimously.

Motion – John Hitch/Second – Lon McSwain/Granted – The motion was adopted unanimously as amended. The code will have a transition date of September 1, 2011 – March 1, 2012.

Item D – 7 2012 NC Fire Code Amendments

A petition put forward by Alan Perdue to adopt Standing Committee amendments to the 2009 ICC Fire Code for publication as the 2012 NC Fire Code.

Errata – Section 603.4.2.3.2 needs to reference Chapter 38 instead of Section 3809.9 and Section 1008.1.9.6 section should reference 425 instead of Section 421

Motion – Alan Perdue/Second – Hawley Truax/Granted – The motion was adopted unanimously as amended. The code will have a transition date of September 1, 2011 through March 1, 2012.

Item D – 8 2012 NC Fuel Gas Code Amendments

A petition put forward by Ralph Euchner to adopt Standing Committee amendments to the 2009 ICC Fuel Gas Code for publication as the 2012 NC Fuel Gas Code.

Motion – Ralph Euchner/Second – Al Bass/Granted – The motion was adopted unanimously. The code will have a transition date of September 1, 2011 through March 1, 2012.

Item D – 9 2012 Mechanical Code Amendments

A petition put forward by Al Bass to adopt Standing Committee amendments to the 2009 ICC Mechanical Code for publication as the 2012 NC Mechanical Code.

Errata –

- Footnote “i”, 403.3 in the 2009 NC Plumbing Code needs to be brought forward into the 2012 NC Plumbing Code.

- In Section 504.6.2, change “200 square feet” to “200 square inches”.
- Relocate Section 918.10 to new Section 603.18
- In Chapter 15; insert ASHRAE 62.1-2001, replace “UL58-?” with “UL58 – 1996”, replace “UL80-?” with “UL80-2009”, replace “UL142-?” with “UL142-2010” and replace “UL1996-?” With “UL1996 -2004” with references in Section 911.

Motion – Al Bass/Second – Hawley Truax/Granted – The motion was adopted unanimously as amended. The code will have a transition date of September 1, 2011 through March 1, 2012.

Item D–10 2012 Plumbing Code Amendments

A petition put forward by Al Bass to adopt Standing Committee amendments to the 2009 ICC Plumbing Code for publication as the 2012 NC Plumbing Code.

Motion – Al Bass/Second – Kim Reitterer/Granted – The motion was adopted unanimously as amended. The code will have a transition date of September 1, 2011 through March 1, 2012.

Item D–11 2012 Residential Code Amendments (with Townhouse Sprinklers)

Item D-11(A) 2012 Residential Code Amendments (without Townhouse Sprinklers)

2012 Residential Code Amendments (with Townhouse Sprinklers)

A petition put forward by David Smith to adopt Standing Committee amendments to the 2009 ICC Residential Code for publication as the 2012 NC Residential Code.

2012 Residential Code Amendments (without Townhouse Sprinklers)

The Chairman identified that a parallel code change for the Residential Code be prepared without sprinklers so that this does not slow the adoption of the overall code.

Motion to adopt Item D-11 and D-11(A)/Motion passed with a vote of 8/7 with the Chairman voting in the positive.

Lon McSwain requested that the Council reconsider previous action on D-11 and D-11(A) because he voted in error.

Motion was made by Lon McSwain to rescind the previous motion with a vote of 14/0.

Motion to adopt Item D-11 and D-11(A)/Motion failed with a vote of 6/8.

Motion to adopt Item D-11 only/Motion failed with a vote of 7/8.

Motion by Bob Ruffner/Al Bass Second to table these items until the December Council meeting/Second/Passed with one no vote.

Item D-12 2012 Energy Conservation Code

Item D-13 Energy System Verification

[These items were considered together and voted on prior to D-11 and D-11(A)]

2012 Energy Conservation Code

A petition put forward by Tom Turner to adopt Standing Committee amendments to the 2009 ICC Energy Conservation Code for publication as the 2012 NC Energy Conservation Code.

Energy System Verification

A petition put forward by Tom Turner to address HVAC verification in parallel to the adoption of the Energy Conservation code. This was taken out of the adoption for the Energy Conservation Code with concern that questions of this section would slow adoption of the overall code.

Motion was made by Tom Turner and Seconded by Mack Nixon, to delay Items D-12, D-13 and the proposed Residential Code Chapter 11 until the next code cycle.

A substitute motion to adopt Items D-12, D-13 and Residential Chapter 11 Effective September 1, 2011 was made. The 2009 NC Energy provisions remain in effect for permits issued until March 1, 2013 – Motion – Hawley Truax/Motion failed with a vote of 6/8.

A substitute motion to adopt Items D-12, D-13 and Residential Chapter 11 Effective September 1, 2012 was made. The 2009 NC Energy provisions remain in effect for permits issued until March 1, 2013 – Motion – Cindy Browning/Motion failed with a vote of 6/8.

A substitute motion to adopt Items D-12, D-13 and Residential Chapter 11 Effective September 1, 2011 was made. The 2009 NC Energy provisions remain in effect for permits issued until March 1, 2012 – Motion – Lon McSwain/Motion failed with a vote of 6/8.

A substitute motion to adopt Items D-12, D-13 and Residential Chapter 11 Effective September 1, 2012 was made. The 2009 NC Energy provisions remain in effect for permits issued until January 1, 2013 – Motion – Hawley Truax/Motion failed with a vote of 6/8.

A substitute motion to adopt Items D-12, D-13 and Residential Chapter 11 Effective September 1, 2011 was made. The 2009 NC Energy provisions remain in effect for permits issued until March 1, 2015 – Motion – John Hitch/Motion failed with a vote of 4/10.

Call the Question – 14/0

The original motion to delay Items D-12, D-13 and the proposed Residential Code Chapter 11 until the next code cycle made by Tom Turner and Mack Nixon passed with a vote of 8/6.

Item D-14 Request by Alan Perdue, NCBC, as amended by Ralph Euchner, NCBC, to amend the 2009 Fuel Gas Code, Section 406.7. The proposed amendment is as follows:

406.7 Purging. Purging of 2 ½ inch nominal pipe size or larger piping shall comply with Sections 406.7.1 through 406.7.4.

406.7.1 Removal from service. Where gas piping is to be opened for servicing, addition, or modification, the section to be worked on shall be turned off from the gas supply at the nearest convenient point, and the line pressure vented to the outdoors, ~~or to ventilated areas of sufficient size to prevent accumulation of flammable mixtures.~~ The remaining gas in this section of pipe shall be displaced with an inert gas as required by Table 406.7.1.

Exception: If the line pressure cannot be vented to the outdoors; the building and all effected spaces shall be evacuated of personnel not involved with purging the gas lines, quantities of flammable gas shall not exceed 25% of the lower explosive limit (1.0% fuel / air mixture for natural gas or 0.6% fuel / air mixture for LP gas) as measured by a combustible gas detector, eliminate all ignition sources and provide adequate ventilation to prevent accumulation of flammable gases.

TABLE 406.7.1
SIZE AND LENGTH OF PIPING REQUIRING PURGING WITH INERT GAS FOR SERVICING OR MODIFICATION

NOMINAL PIPE SIZE (Inches)	LENGTH OF PIPING REQUIRING PURGING
2½	> 50 feet
3	> 30 feet
4	> 15 feet
6	> 10 feet
8 or larger	Any length

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

406.7.2 Placing in operation. Where piping full of air is placed in operation, the air in the piping shall be displaced with fuel gas, except where such piping is required by Table 406.7.2 to be purged with an inert gas prior to introduction of fuel gas. The air can be safely displaced with fuel gas provided that a moderately rapid and continuous flow of fuel gas is introduced at one end of the line and air is vented out at the other end. The fuel gas flow shall be continued without interruption until the vented gas is free of air. The point of discharge shall not be left unattended during purging. After purging, the vent shall then be closed. Where required by Table 406.7.2, the air in the piping shall first be displaced with an inert gas, and the inert gas shall then be displaced with fuel gas.

TABLE 406.7.2
SIZE AND LENGTH OF PIPING REQUIRING PURGING WITH INERT GAS BEFORE PLACING IN OPERATION

NOMINAL PIPE SIZE (Inches)	LENGTH OF PIPING REQUIRING PURGING
3	> 30 feet
4	> 15 feet
6	> 10 feet
8 or larger	Any length

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

406.7.3 Discharge of purged gases. The open end of piping systems being purged shall not discharge into confined spaces or areas where ~~quantities of flammable gas can exceed 25% of the lower explosive limit as measured by a combustible gas detector.~~ there are sources of ignition unless precautions are taken to perform this operation in a

~~safe manner. by ventilation of the space, control of purging rate and elimination of hazardous conditions. All potential sources of ignition shall be identified and eliminated or controlled. Precautions shall be taken to maintain the concentration of the flammable gas below 25% of the lower explosive limits (1.0% fuel / air mixture for natural gas or 0.6% fuel / air mixture for LP gas) such as adequate ventilation and control of purging rate. and other measures as appropriate for the elimination of all hazardous conditions. The point of discharge shall not be left unattended during purging.~~

406.7.4 Placing appliances and equipment in operation.

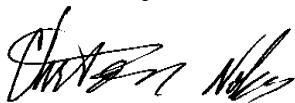
After the piping system has been placed in operation, all appliances and equipment shall be purged and then placed in operation, as necessary.

406.7.5 Personnel Training. Personnel performing purging operation shall be trained to the hazards associated with purging and shall not rely on odor when monitoring the concentration of combustible gas.

Motion – Mack Nixon/Second – Alan Perdue/Granted – The motion was adopted unanimously.

While Hawley Truax had the floor and was making a motion to reconsider the energy conservation code vote, he ceded the floor to Tom Turner who made the motion to adjourn. The Chairman acknowledged his motion which was seconded by Al Bass. The vote to adjourn the meeting was 10/4 in favor.

Sincerely,



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