

**Minutes of the North Carolina Building Code Council**  
**March 9-10, 2009**  
**Raleigh, NC**

All members of the North Carolina Building Code Council were present for the Meeting with the exception of Kim Reitterer. All members were present for the Work Session and Hearing except Paula Strickland and Kim Reitterer.

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 June 8-9, 2009 at the NC Department of Insurance, OSFM, 322 Chapanoke Road, Raleigh, North Carolina, 27603 in the classroom downstairs.

**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 December 9, 2008 NC Building Code Council Meeting.**

Motion – Butch Simmons/Second – Cindy Browning/Passed – The December 9, 2008 minutes were approved.

**Item A – 3 Notice of Mr. Hawley Truax’ appointment to the NC Building Code Council.**

Dan Tingen introduced and welcomed Mr. Hawley Truax, the newest member appointed to the NC Building Code Council.

**Item A – 4 Request by Travis Crabtree, Town of Carrboro, to amend the local Fire Ordinance, Section 12-17(c).**

Motion – David Smith/Second – Al Bass/Denied – The request was denied and was asked to be sent back for review.

**Item A – 5 Request by Travis Crabtree, Town of Carrboro, to amend the local Fire Ordinance, Section 12-20.**

Motion – Butch Simmons/Second – David Smith/Denied – The request was denied and was asked to be sent back for review.

## **Item A – 6 Rules Review Commission meeting report**

Barry Gupton reported that three items were submitted to and approved by the Rules Review Commission:

- Appendix M – Residential Deck Re-write
- Pressbox – Accessibility Exception
- Temporary Shelter – Definition

Chapter 11 and ANSI have been held for Legislative Review. The NC Accessibility Code will remain in effect until further notice.

## **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 hearing will take place during on or after the June 2009 meeting.

### **Item B – 1 Request by Lon McSwain, to amend the 2009 NC Building Code. The proposed amendment is as follows:**

**1009.11 Stairway to roof.** In buildings located four or more stories in height above grade plane, one stairway shall extend to the roof surface, unless the roof has a slope steeper than four units vertical in 12 units horizontal (33 percent slope). In buildings without an occupied roof, access to the roof from the top story shall be permitted to be by an alternating tread device or a ships ladder meeting the following, a pitch of 60 to 75 degrees, width of 30” to the outside of the handrails, tread depth of 5 3/16”, riser height of 9 ½” to 12”, 1 ¼” pipe handrail. The height between the top landing of the stair and the roof shall not exceed 20’-0”.

Motion – Mack Nixon/Second – Butch Simmons/Passed – The Petition was granted unanimously and was referred to the Building Committee for review.

### **Item B – 2 Request by Jeff Soechting, Ward Manufacturing, Inc., to amend the 2009 NC Fuel Gas Code. The proposed amendment is as follows:**

**310.2** CSST Gas piping systems shall be bonded to the electrical service grounding electrode system at the point where the gas service enters the building. The bonding jumper shall not be smaller than 6 AWG copper wire or equivalent.

Motion – David Smith/Second – Ralph Euchner/Passed – The Petition was granted unanimously and was referred to the Mechanical and Electrical Committees for review.

**Item B – 3 Request by Robert Privott, NC Home Builders Association, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**R313.2.1 Alterations, repairs and additions.** When alterations, repairs or additions requiring a building permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings; the smoke alarms shall be interconnected and hard wired.

**Exceptions:**

1. 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, ~~unless there is an attic, crawl space, or basement available which could provide access for hard wiring and interconnection without the removal of interior finishes.~~
2. Work involving the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows and doors, or the addition of a porch or deck, are exempt from the requirements of this section.

Motion – David Smith/Second – Alan Perdue/Denied – The Petition was denied.

This item was sent to the Residential Committee for review.

**Item B – 4 Other Petitions for Rulemaking.**

**Request by David Gardner, City of Charlotte, to amend the 2009 NC Building Code. The proposed amendment is as follows:**

**[F] 903.2.7 Group R.** An automatic sprinkler system installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire area.

**Exception:** An automatic sprinkler system is not required in ~~Group R-3 and R-4 adult and child day care facilities~~ new adult and child care facilities in existing Groups R-3 and R-4 occupancies.

Motion – Alan Perdue/Second – Butch Simmons/Passed – The Petition was granted unanimously and was referred to the Joint Building/Fire Committee for review.

### **Part C – Notice of Rulemaking Proceedings and Public Hearing**

The following Petitions for Rulemaking have been granted by the Council. Notice of Rulemaking proceedings has been made. The Public Hearing was held on March 9, 2009 and the Final Adoption meeting may take place on or after June 9, 2009.

#### **Item C – 1 Request by Al Bass, on behalf of the Plumbing Ad-Hoc Committee, to amend the 2009 NC Plumbing Code. The proposed amendment is as follows:**

**901.2.1 Venting required.** Every trap and trapped fixture shall be vented in accordance with one of the venting methods specified in this chapter. All fixtures discharging downstream from a water closet shall be individually vented except as provided in Section 911.

There were no comments from the public on this item.

#### **Item C – 2 Request by Al Bass, on behalf of the Plumbing Ad-Hoc Committee, to amend the 2009 NC Plumbing Code. The proposed amendment is as follows:**

**DELETE:**

#### **SECTION C103 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS**

**DELETE:**

#### **FIGURE 1 GRAY WATER RECYCLING SYSTEM FOR SUBSURFACE LANDSCAPE IRRIGATION**

There were no comments from the public on this item.

#### **Item C – 3 Request by Dan Tingen, Chair, to amend the 2008 NC Electrical Code. The proposed amendment is as follows:**

#### **210.12 Arc-Fault Circuit-Interrupter Protection. (AFCI)**

**(B) Dwelling Units:** All 125-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit ~~family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas~~ shall be protected by a listed arc-fault circuit interrupter, combination-type installed to provide protection of the branch circuit.

Kelly King, with King Bros. Electric, recommends the Council adopt this code change.

Robert Privott, with NCHBA, recommends the Council adopt this code change.

Gary Mullis, with NCECC, IAEE/Mecklenberg County, opposes the code change.

Terry Cromer, with NCAEC, recommends the Council adopt this code change.

John Minick, with NEMA, opposes the code change.  
Gerald Harvell, with Keeping Current, LLC, opposes the code change.

Frank Wiesner, with Olde South Homes, Inc., recommends the Council adopt this code change.

Rob Wilson, with W3 Electric, recommends the Council adopt this code change.

Ron Chilton, with NCDOT, commented on behalf of the NCDOT Staff.

Travis Pollard, Contractor, recommends the Council adopt this code change.

Bill Coffman, with Imperial Electric, recommends the Council adopt this code change.

**Item C – 4 Request by Danny Hair, City of Raleigh, to amend the 2008 NC Electrical Code. The proposed amendment is as follows:**

**(Add an exception to section 338.10(A)(4)(a) of the 2008 NC Electrical Code)**

**(4) Installation Methods for Branch Circuits and Feeders.**

- (a) Interior Installations. In addition to the provisions of this article, Type SE service-entrance cable used for interior wiring shall comply with the installation requirements of Part II of Article 334.

**Exception:** Type SE service-entrance cable not installed within framing member with thermal insulation or areas that may be insulated in the future, shall not be required to comply with the 60 degree C ampacity limitation in section 334.80.

Rob Wilson, with W3 Electric, recommends the Council adopt this code change.

Ron Chilton, with NCDOT, commented on behalf of the NCDOT Staff.

John Minick, with NEMA, opposes the code change.

Gary Mullis, with NCECC, IAEE/Mecklenberg County, opposes the code change.

Julian Burns opposes the code change.

Terry Cromer, with NCAEC, recommends the Council adopt this code change.

**Item C – 5 Request by New Hanover County Code Enforcement, to amend the 2008 NC Electrical Code. The proposed amendment is as follows:**

**338.10 (B)(4)(a)**

Interior installations. In addition to the provisions of this article, Type SE service-entrance cable used for interior wiring shall comply with the installation requirements of Part II of Article 334, excluding 334.80.

Same comments as C-4

#### **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 December 8, 2008. The Final Adoption meeting took place on March 10, 2009. 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, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**R202 SUNROOM ADDITION.** A one-story structure ~~attached~~ added to an existing dwelling with a glazing area in excess of 40 percent of the gross area of the structure's exterior walls and roof.

Motion/Second – Ed Moore/Approved – The motion was adopted unanimously.

#### **Item D – 2 Request by David Smith, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**~~R311.2.2 Under stair protection. Deleted.~~**

**R311.2.2 Under stair protection.** Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½-inch (12.7mm) gypsum board.

Motion – Cindy Browning/Second – David Smith/Approved – The motion was adopted unanimously.

#### **Item D – 3 Request by Jeff Griffin, Mecklenburg County Government, to amend the 2009 NC Residential Code, Section R311.5.8. The proposed amendment is as follows:**

**R311.5.8 Special stairways.** Circular stairways, spiral stairways, winders, bulkhead enclosure and bowed head stairways shall comply with all requirements of section R311.5 except as specified below.

**R311.5.8.3 Bowed tread stairways.** Bowed tread stairways are permitted provided they are uniform in bowed tread depth along entire width of tread with not more than 3/8” variance from greatest to smallest tread in the stairway flight. At no point shall the tread be less

than a minimum of 9 inches with a nosing as listed in section R311.5.3.2 and R311.5.3.3 respectfully.

**R311.5.8.3.1 Standard stairway application.** The bottom 3 treads in a standard straight run stairway application as listed under section R311.5.3.2 are permitted to bow provided at no point along the width of the tread they are less than 9” as measured under section R311.5.3.2 and each bowed tread is uniformed with other bowed treads with no more than 3/8” variance from greatest to least. Nosing is required as listed in section R311.5.3.

**R311.5.8.3.2 Bowed tread circular stairways.** Bowed treads in a circular stairway are permitted provided they are uniformed as per winder treads as listed in section R311.5.3.2 measured at a point 12” from the side where the treads are narrower. At this walk line bowed treads must be uniformed with other circular stairway treads with the greatest tread not to exceed the smallest by more than 3/8”. Nosing is required as listed in section R311.5.3.

**Figures R311.5.8.3, R311.5.8.3.1, and R311.5.8.3.2, are also to be added to commentary to explain code section application.**

Motion – David Smith/Second/Approved – The motion was adopted unanimously.

**Item D – 4 Request by John L. Hitch, AIA, to amend the 2009 NC Building Code. The proposed amendment is as follows:**

**903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (464.5 m<sup>2</sup>);
2. The fire area has an occupant load of ~~100~~ 300 or more, except 100 for nightclubs; or
3. The fire area is located on a floor other than the level of exit discharge.

#### **SECTION 202 DEFINITIONS**

**NIGHTCLUB.** See Section 902.1

#### **SECTION 902 DEFINITIONS**

**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.

Motion – Bob Ruffner/Second/Approved – The motion was adopted.

**Item D – 5 Request by David Smith, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**R404.5 Retaining walls.** ~~Retaining walls that are not laterally supported at the top and that retain in excess of 24 inches (610 mm) of unbalanced fill shall be designed to ensure stability against overturning, sliding, excessive foundation pressure and water uplift. Retaining walls shall be designed for a safety factor of 1.5 against lateral sliding and overturning.~~ **Delete.**

Motion – David Smith/Second – Ralph Euchner/Approved – The motion was adopted unanimously.

**Item D – 6 Request by David Smith, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

Revise Section R406.1 to read as follows:

**406.1 Concrete and masonry foundation dampproofing.**

Foundation walls where the outside grade is higher than the inside grade, shall be dampproofed from the top of the footing to the finished grade. ~~Masonry walls shall have not less than 3/8 inch (9.5 mm) Portland cement parging applied to the exterior of the wall.~~ The foundation walls shall be dampproofed with a bituminous coating, 3 pounds per square yard (1.63 kg/m<sup>2</sup>) of acrylic modified cement, or 1/8-inch (3.2 mm) coat of surface-bonding mortar complying with ASTM C 887 or any material permitted for waterproofing in Section R406.2. Concrete walls shall be dampproofed by applying any one of the above listed dampproofing materials or any one of the waterproofing materials listed in Section R406.2 to the exterior of the wall.

Motion – David Smith/Second – Butch Simmons/Approved – The motion was adopted unanimously.

**Item D – 7 Request by David Smith, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**N1102.2.10 Thermally isolated sunroom addition insulation.** The minimum ceiling insulation *R*-values shall be R-19 in zones 1 through 4 and R-24 in zones 5 through 8. The minimum wall *R*-value shall be R-13 in all zones. New wall(s) separating the sunroom from conditioned space shall meet the building thermal envelope requirements.

Motion – David Smith/Second – Butch Simmons/Approved – The motion was adopted unanimously.

**Item D – 8 Request by David Smith, on behalf of the Residential Ad-Hoc Committee, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**N1102.3.5 Thermally isolated sunroom addition U-factor.** For zones 4 through 8 the maximum fenestration *U*-factor shall be 0.50 and the maximum skylight *U*-factor shall be 0.75. New windows and doors separating the sunroom from conditioned space shall meet the building thermal envelope requirements. Conditioned sunroom additions shall maintain thermal isolation; shall not be used as kitchens or sleeping rooms; and shall be served by a separate heating or cooling system, or be thermostatically controlled as a separate zone of the existing system.

Motion – David Smith/Second – Butch Simmons/Approved – The motion was adopted unanimously.

**Item D – 9 Request by Wendy Purser, Hampstead Pool, Spa & Patio, Inc., to amend the 2009 NC Residential Code, Appendix G and the 2009 NC Building Code, Section 3109.5. The proposed amendment is as follows:**

**RESIDENTIAL CODE**

**1. Delete and substitute as follows:**

~~**AG106.1 Suction entrapment avoidance.** Pools, spas, hot tubs, catch basins and other similar bather accessible bodies of water associated with swimming pool construction shall be designed to produce circulation throughout the body of water and provide means to protect against user suction entrapment in accordance with ANSI/APSP 7.~~

~~**AG106.1 General.** Suction outlets shall be designed and installed in accordance with ANSI/APSP-7. to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or multiple suction outlets whether isolated by valves or otherwise shall be protected against user entrapment.~~

**2. Delete without substitution:**

~~**AG106.2 Suction fittings.** Pool and spa suction outlets shall have a cover that conforms to ANSI/ASME A112.19.8M, or an 18 inch x 23 inch (457mm by 584mm) drain grate or larger, or an approved channel drain system.~~

**Exception:** Surface skimmers

~~**AG106.3 Atmospheric vacuum relief system required.** Pool and spa single or multiple outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. This vacuum relief system shall include at least one approved or engineered method of the type specified herein, as follows:~~

- ~~1. Safety vacuum release system conforming to ASME A112.19.17; or~~

2. An approved gravity drainage system.

~~**AG106.4 Dual drain separation.** Single or multiple pump circulation systems shall be provided with a minimum of two (2) suction outlets of the approved type. A minimum horizontal or vertical distance of three (3) feet (914 mm) shall separate the outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum-relief protected line to the pump or pumps.~~

~~**AG106.5 Pool cleaner fittings.** Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least (6) inches (152 mm) and not more than (12) inches (305 mm) below the minimum operational water level or as an attachment to the skimmer(s).~~

**3. Add standard to Section AG 108 as follows:**

ANSI/APSP-7-06 Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins

**4. Update standard in Section AG 108 as follows:**

ASME/ANSI A112.19.17-07 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs

ANSI/ASME A112.19.8M-1987 2007 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, Hot Tubs and Whirlpool Bathing Appliances

ANSI/NSPI APSP-4-99 07 Standard for Above-ground/On-ground Residential Swimming Pools

ANSI/NSPI-5-99 03 Standard for Residential In-ground Swimming Pools

Note: This amendment has been approved by ICC for the 2009 IBC and IRC. The intent is to make the same amendment to the 2009 NC Building Code, Section 3109.5. An immediate effective date is requested upon RRC approval.

**3109.5 Entrapment avoidance. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7. (All previous suction entrapment language from 2006 IBC has been deleted)**

**Add standard to Chapter 35 as follows: ANSI/APSP-7-06 Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins.**

Motion – David Smith/Second – Butch Simmons/Approved – The motion was adopted unanimously.

**Item D –10 Request by Wendy Purser, Hampstead Pool, Spa & Patio, Inc., to amend the 2009 NC Residential Code, Appendix G. The proposed amendment is as follows:**

**1. Add new definition to Section AG102:**

UNBLOCKABLE DRAIN. – A drain of any size and shape that a human body cannot sufficiently block to create a suction entrapment hazard.

**2. Delete and modify as follows:**

~~**AG106.1 Suction entrapment avoidance.** Pools, spas, hot tubs, catch basins and other similar bather accessible bodies of water associated with swimming pool construction shall be designed to produce circulation throughout the body of water and provide means to protect against user suction entrapment in accordance with ANSI/APSP 7.~~

**AG106.1 General.** Suction outlets shall be designed and installed in accordance with one of the following: ANSI/APSP-7. ~~to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or multiple suction outlets, whether isolated by valves or otherwise, shall be protected against user entrapment.~~

1. ANSI/APSP-7, or
2. All of the provisions of Section AG 106.2 through Section AG 106.5.

**3. Add new section:**

**AG106.2 Drain Configuration.** Pools and spas shall be designed and installed with one of the following:

1. More than one suction outlet (drain), with a minimum horizontal or vertical distance of 3 ft (914 mm) between outlets. Maximum water velocity in suction branch piping shall be limited to 3 feet per second or a maximum of 6 feet per second (fps) (1.829 mps) if one of a pair of suction outlets is blocked
2. One or more unblockable drains, or
3. No main drain

**4. Modify as follows**

~~**AG106.23 Suction fittings.** Pool and spa suction outlets shall have a cover that conforms to ANSI/ASME A112.19.8M or an 18 inch x 23 inch (457 mm by 584 mm) drain grate or larger, or an approved channel drain system.~~

**Exception:** Surface skimmers

**AG106.3.1** All suction outlet covers/grates shall have a permanently marked flow rating tested to prevent hair entrapment.

**AG106.3.2** The marked flow rating provided on the suction outlet cover shall exceed the flow rate of the circulation system it is protecting.

**AG106.34 Atmospheric vacuum relief system required.** All pools and spas that have a single drain other than an unblockable drain shall be equipped with one or more of the following:

1. Safety vacuum release system which ceases operation of the pump, reverses the circulation flow, or otherwise provides a vacuum release at a suction outlet when a blockage is detected, that has been listed and labeled to conform to ANSI/ASME A112.19.17; or ASTM F 2387, or
2. An approved gravity drainage system that utilizes a collector tank, or
3. A suction-limiting vent system with a tamper resistant atmospheric opening, or
4. An automatic pump shut-off system, or
5. A drain disablement system.

~~Pool and spa single or multiple outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. This vacuum relief system shall include at least one approved or engineered method of the type specified herein, as follows:~~

- ~~1. Safety vacuum release system conforming to ASME A112.19.17; or~~
- ~~2. An approved gravity drainage system~~

**AG106.4 Dual drain separation.** ~~Single or multiple pump circulation systems shall be provided with a minimum of two suction outlets of the approved type. A minimum horizontal or vertical distance of 3 feet (914 mm) shall separate the outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum relief protected line to the pump or pumps.~~

**AG106.5 Pool cleaner fittings.** ~~Where provided vacuum or pressure cleaner fitting(s) shall be designed to protect against limb entrapment. Vacuum cleaner fitting(s) shall be located in an accessible position(s) at least 6 inches (152 mm) and not greater than 12 inches (305 mm) below the minimum operational water level.~~

**Exception:** Vacuum cleaner fitting(s) when used as an attachment to the skimmer(s).

**5. Add standards to Section AG 108 as follows:**

ANSI/APSP-7-06 Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins

ASTM F2387 – 04 Standard Specification for Manufactured Safety Vacuum Release Systems (SVRS) for Swimming Pools, Spas and Hot Tubs

**6. Update standard in Section AG 108 as follows:**

ASME/ANSI A112.19.17-07 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs

ANSI/ASME A112.19.8M-1987 2007 Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, Hot Tubs and Whirlpool Bathing Appliances

ANSI/NSPI APSP-4-99 07 Standard for Above-ground/On-ground Residential Swimming Pools

ANSI/NSPI-5-99 03 Standard for Residential In-ground Swimming Pools

Motion – Mack Nixon/Second – Al Bass/Disapproved – The Petition was denied.

**Item D –11 Request by Eric Doran, Hatteras Pools, to amend the 2009 NC Residential Code. The proposed amendment is as follows:**

**AG106.3 Atmospheric vacuum relief system required.** All pool and spa single or multiple outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. Such vacuum relief systems shall include at least one approved or engineered method of the type specified herein, as follows:

1. Safety vacuum release system conforming to ASME A112.19.17, or
2. An approved gravity drainage system.

**Exception:** Surface Skimmers

Motion – Al Bass/Second – David Smith/Disapproved – The Petition was denied.

**Item D –12 Request by Craig J. Froeter, Froet Industries LLC, to amend the 2006 NC Plumbing Code, Section 1105. The proposed amendment is as follows:**

**1107.3 Sizing of secondary drains.** Secondary (emergency) roof drain systems shall be sized in accordance with section 1106 based on the rainfall rate indicated in figure ~~1106.1a~~ 1106.1.

Motion – Al Bass/Second – Mack Nixon/Disapproved – The Petition was denied.

**Item D –13 Request by Craig J. Froeter, Froet Industries LLC, to amend the 2006 NC Plumbing Code, Section 1105. The proposed amendment is as follows:**

**1105.1 Strainers.** Roof drains shall have strainers extending not less than ~~4 3~~ 3 inches (~~102mm~~ 76mm) above the surface of the roof.

Motion – Al Bass/Second – Ralph Euchner/Approved – The motion was adopted unanimously.

**Item D –14 Request by Al Bass, Mechanical Committee, to amend the 2009 NC Plumbing Code, Section 301.3 and add Appendix C-1 for Rain Water Recycling Systems. The proposed amendment is as follows:**

**301.3 Connections to the sanitary drainage system.** All plumbing fixtures, drains, appurtenances and appliances used to receive or discharge liquid wastes or sewage shall be directly connected to the sanitary drainage system of the building or premises, in accordance with the requirements of this code. This section shall not be construed to prevent the indirect waste systems required by Chapter 8. All drain, waste and vent piping associated with gray water or rain water recycling systems shall be installed in full compliance with this code.

The approved Appendix C-1 text may be viewed at the following link:  
[http://www.ncdoi.com/OSFM/Engineering/BCC/engineering\\_bcc\\_minutes.asp](http://www.ncdoi.com/OSFM/Engineering/BCC/engineering_bcc_minutes.asp)

Motion – Al Bass/Second/Approved as modified – The motion was adopted unanimously.

**Part E – Reports**

**Chairman’s Report**

- Dan Tingen asked when the new Code Books would be available. Barry Gupton got a count of those members wanting an electronic or a printed version.
  
- Dan Tingen handed out a copy of the letter that was sent to the Legislature regarding Tamper Resistant Receptacles, Arc-Fault Circuit Interrutors and SE Cables.

**Ad Hoc Committee Reports**

- Butch Simmons mentioned that his committee will be looking to make as few changes as possible as a new Code cycle approaches.
  
- David Smith asked that the Ad-Hoc Committee members be included in future printings of the Residential Code.

**Standing Committee Reports**

- Dan Tingen asked Al Bass for the Plumbing Committee to look at Item B-1 from the December 2008 Minutes and report back so that it can be advertised for Public Hearing at the next Council meeting.

**Staff Reports**

- Chris Noles reported that the Council has been notified by the Access Board that the US Department of Justice is going to delay ADA/ABA another year to two years.
  
- Chris Noles said that Barry Gupton checked with ICC regarding the issue on Commentaries. ICC gave three options. The options were to have the

amendment package added to the end of the electronic document, to add the amendments to the start of the end of each chapter of the documents, or to add the changes directly to the document. They gave an approximate cost of no less than \$500.

- Chris Noles reported on DENR documents that were handed out, saying that they were a result of research that was done by DENR on an investigation on Water Conservation and what they are recommending back to the Legislature.

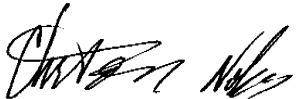
**Public Comments**

There were no additional comments from the public.

**Part F – Appeals**

No appeals were heard at this meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "Christian Noles". The signature is stylized and cursive.

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