

**MINUTES OF THE BUILDING CODE COUNCIL**

**DECEMBER 9, 2003**

**RALEIGH, NORTH CAROLINA**

All Council members were present with the exception for Bob Ruffner, Brad Lail and Tom Turner.

THESE ARE SUMMARY MINUTES AND THE OFFICIAL MINUTES OF THIS MEETING ARE RECORDED ON TAPE. ANYONE DESIRING VERBATIM TAPES OR EXCERPTS FROM THESE TAPES SHOULD CONTACT THE ENGINEERING DIVISION OF THE NC DEPARTMENT OF INSURANCE FOR INFORMATION ON REPRODUCTION COSTS.

Chairman Tingen announced that the next Building Code Council meeting will be held at the Sheraton Atlantic Beach located at 2717 West Fort Macon Road, Atlantic Beach, NC 28512 on March 8, 2004. The Building Code Council meeting will begin with a work session at 9:00 AM, followed by a public hearing at 1:00 PM. The Council meeting will continue at 9:00 AM on March 9, 2004.

Chairman Tingen stated that he had one item to read into the minutes. A letter of Executive Order #1 mandates that the Chair inquire whether any member knows of any conflict of interest or appearance of conflict of interest with respect to matters before the North Carolina Building Code Council. No conflict of interest was noted.

**ITEM 1 - APPROVAL OF MINUTES OF THE SEPTEMBER 9, 2003  
BUILDING CODE COUNCIL MEETING.**

Chairman Tingen stated that the last sentence in Item #2 be changed to read as follows: "The Council found the staff erred in its interpretation, because the ramp in question was not part of a required means of egress. The required means of egress from the existing buildings was met by an existing sidewalk which had served those buildings. The existing sidewalk met the requirements for accessibility. The Council found the new sidewalk was not part of a required exit; therefore, it was not required to meet the provisions of the North Carolina Building and Accessibility Codes."

Butch Simmons made a motion to approve the minutes as amended. Marshall Knight seconded the motion. The motion carried.

**ITEM 2 - EVALUATION OF STATEMENT OF ECONOMIC INTEREST FILED BY ALAN W.  
PERDUE, ROBERT F RUFFNER, JR., AND WALTER L. SIMMONS.**

Wanda Edwards read the letters from George F. Bason, Chairman of the North Carolina Board of Ethics, concerning the Evaluation of Statement of Economic Interest filed by Alan W. Perdue, Robert F. Ruffner, Jr. and Walter L. Simmons. The letters stated that Alan W. Perdue, Robert F. Ruffner, Jr. and Walter L. Simmons did not have any actual conflicts of interest, but that the potential for a conflict of interest exists.

**PETITIONS FOR RULEMAKING**

The following petitions for rulemaking have been received since the last Council meeting. The Council votes to grant or deny the petitions. Petitions that are granted may proceed through the rulemaking process. The Council will give no further consideration to petitions that are denied. The Council may send any petition to the appropriate committee for review. Committee meetings, if scheduled, will be March 8, 2004. The public hearing for petitions granted will be held on June 8, 2004.

**ITEM 3- REQUEST BY JOSEPH R HETZEL WITH DOOR AND ACCESS SYSTEMS MANUFACTURERS ASSOCIATION TO REVISE TABLE 4402(b) IN THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**TABLE 4402(b)  
DESIGN PRESSURES IN PSF FOR GARAGE DOORS 1,2,3,4,5,6  
POSITIVE AND NEGATIVE IN PSF**

**9x7 Doors**

<b>Velocity (mph)</b>	<b>Mean Roof Height (ft)</b>		
	<b>15</b>	<b>25</b>	<b>35</b>
<b><u>110</u></b>	<u>20 + 19.1 -21.6</u>	<u>23 + 19.1 -21.6</u>	<u>26 + 20.0 -22.6</u>
<b><u>120</u></b>	<u>25 + 22.8 -25.8</u>	<u>29 + 22.8 -25.8</u>	<u>32 + 23.8 -26.9</u>
<b><u>130</u></b>	<u>30 + 26.7 -30.2</u>	<u>35 + 26.7 -30.2</u>	<u>39 + 27.9 -31.5</u>

**16x7 Doors**

<b>Velocity (mph)</b>	<b>Mean Roof Height (ft)</b>		
	<b>15</b>	<b>25</b>	<b>35</b>
<b><u>110</u></b>	<u>+ 18.3 -20.4</u>	<u>+ 18.3 -20.4</u>	<u>+ 19.1 -21.3</u>
<b><u>120</u></b>	<u>+ 21.8 -24.3</u>	<u>+ 21.8 -24.3</u>	<u>+ 22.8 -25.4</u>
<b><u>130</u></b>	<u>+ 25.6 -28.5</u>	<u>+ 25.6 -28.5</u>	<u>+ 26.7 -29.8</u>

1. The pressures in this table are for garage doors at least 9 ft x 7 ft and at least 2 ft from a corner.
2. Alternate design pressures may be determined by using the North Carolina State Building Code General Construction, ASCE 7-98 or the 2000 International Building Code.
3. For doors in a structure with a roof slope of 10 degrees (2:12) or less from the horizontal the pressures from this table may be multiplied by ~~0.90~~ 0.92.
4. Design pressure ratings based on tests done according to ASTM E330 or ANSI/DASMA 108 are adequate documentation.
5. Garage doors on the ground level of a structure in a flood zone do not have to meet the above design pressures provided all of the following conditions are met:
  - Structure is anchored to the girders and top of the piling to resist the forces given in Chapter 44. The garage door occurs below the top of the piling.
  - Provide openings at the garage level that comply with either of the following options:
    1. Design all exterior walls at the garage level to break away at 20 psf or less or:
    2. Provide openings (in walls at the garage level without the garage door) equal to at least 20% of the total wall area from the ground to the roof.

6. Design pressures are based on Exposure B condition.
  - a. For 15' mean roof height, multiply by 1.21 for Exposure C values and by 1.47 to get Exposure D values
  - b. For 25' mean roof height, multiply 1.34 for Exposure C values and by 1.60 to get Exposure D values
  - c. For 35' mean roof height, multiply 1.38 for Exposure C values and by 1.63 to get Exposure D values

Chairman Tingen granted this item by unanimous consent, also to be referred to the Residential Committee.

**ITEM 4 – REQUEST BY JOSEPH R. HETZEL WITH DASMA TO ADD A NEW TABLE 301.2(5) IN THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**TABLE 301.2(5)**  
**DESIGN PRESSURES FOR GARAGE DOORS <sup>1,2,3,4,5,6</sup>**  
**POSITIVE AND NEGATIVE IN PSF**

**9x7 Doors**

<b>Velocity (mph)</b>	<b>Mean Roof Height (ft)</b>		
	<b>15</b>	<b>25</b>	<b>35</b>
<b>90</b>	<u>+ 12.8 -14.5</u>	<u>+ 12.8 -14.5</u>	<u>+ 13.4 -15.1</u>
<b>100</b>	<u>+ 15.8 -17.9</u>	<u>+ 15.8 -17.9</u>	<u>+ 16.5 -18.7</u>

**16x7 Doors**

<b>Velocity (mph)</b>	<b>Mean Roof Height (ft)</b>		
	<b>15</b>	<b>25</b>	<b>35</b>
<b>90</b>	<u>+ 12.3 -13.7</u>	<u>+ 12.3 -13.7</u>	<u>+ 12.8 -14.3</u>
<b>100</b>	<u>+ 15.2 -16.9</u>	<u>+ 15.2 -16.9</u>	<u>+ 15.8 -17.6</u>

1. The pressures in this table are for garage doors at least 2 ft from a corner.
2. Alternate design pressures may be determined by using the North Carolina State Building Code General Construction, ASCE 7-98 or the 2000 International Building Code.
3. For doors in a structure with a roof slope of 10 degrees (2:12) or less from the horizontal pressures from this table may be multiplied by 0.92.
4. Design pressure ratings based on tests done according to ASTM E330 or ANSI/DASMA 108 are adequate documentation.
5. Garage doors on the ground level of a structure in a flood zone do not have to meet the above design pressures provided all of the following conditions are met:
  - a. Structure is anchored to the girders and top of the piling to resist the forces given in Chapter 44.
  - b. The garage door occurs below the top of the piling.
  - c. Provide openings at the garage level that comply with either of the following options:
    1. Design all exterior walls at the garage level to break away at 20 psf or less or:
    2. Provide openings (in walls at the garage level without the garage door) equal to at least 20% of the total wall area from the ground to the roof.
6. Design pressures are based on Exposure B condition.
  - a. For 15' mean roof height, multiply by 1.21 for Exposure C values and by 1.47 to get Exposure D values
  - b. For 25' mean roof height, multiply by 1.34 for Exposure C values and by 1.60 to get Exposure D values
  - c. For 35' mean roof height, multiply by 1.38 for Exposure C values and by 1.63 to get

Exposure D values

Chairman Tingen granted this item by unanimous consent and referred to the Residential Committee.

**ITEM 5 – REQUEST BY JOSEPH R HETZEL WITH DASMA TO REVISE SECTION R614.1 IN THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**R614.1 Side Hinge and Garage Doors.** Exterior side hinge doors and garage doors shall have a structural design pressure rating as required by ~~Table 301.2(4)~~ Table 301.2(5) or Section 4402. These doors are not required to be rated for water resistance nor air infiltration.

Mr. Joseph Hetzel of DASMA stated he would like to have DASMA Garage Door Wind Load Guide as an acceptable means of determining door wind design pressures. In Item # 5, the first sentence should be changed to read “Exterior side hinge doors will be per Table 301.2(4). Exterior garage doors will comply with Table 301.2(5) or Section 4402.”

Chairman Tingen granted this request by unanimous consent and referred it to the Residential Committee.

**ITEM 5A – REQUEST BY JOSEPH R HETZEL WITH DASMA TO INCLUDE REFERENCE TO THE DASMA GARAGE DOOR WIND LOAD GUIDE IN THE NORTH CAROLINA RESIDENTIAL CODE:**

Chairman Tingen granted this request by unanimous consent and referred it to the Residential Committee.

**ITEM 6 – REQUEST BY CHRIS EDWARDS OF THE NC ASSOCIATION OF LAUNDERERS AND CLEANERS, TO ADD THE FOLLOWING EXCEPTION TO SECTION 1208.2 IN THE NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

**1208.2 Automatic sprinkler system.** An automatic sprinkler system shall be installed in accordance with Section 903.3.1.1 throughout dry cleaning plants containing Type II, Type III-A or Type III-B dry cleaning systems.

**Exception:** Automatic sprinkler systems are not required in dry cleaning plants where the quantity of Class IIIA solvent in dry cleaning machines and storage does not exceed 330 gal (1250 L), and a new machine is being installed that is specifically designed for class IIIA solvents and has been listed by a North Carolina recognized testing laboratory or a used machine is being installed that was manufactured after January 1, 1999 and was specifically designed by the original manufacturer for class IIIA solvents and has been listed by a North Carolina recognized testing laboratory, and a type IIIA dry cleaning machine is not being installed in a Type II dry cleaning room, and dry cleaning machines are equipped with instrumentation, equipment, or controls that provide any one of the following:

- a. Features that limit oxygen concentrations to less than 8 percent by volume
- b. Features that limit solvent temperatures to less than 30° F (16.7° C) below their flash point
- c. Features that limit solvent vapor concentration to less than 25 percent of the LEL
- d. Features that incorporate equipment approved for use in Class I, Division 2 hazardous locations

- e. Features that incorporate an integral automatic fire extinguishing system conforming with Section 1208.3

**Exception:** Automatic sprinkler systems are not required in dry cleaning plants where the quantity of Class IIIB solvent in dry cleaning machines and storage does not exceed 3300 gal (12,490 L), and a new machine is being installed that is specifically designed for class IIIB solvents and has been listed by a North Carolina recognized testing laboratory or a used machine is being installed that was manufactured after January 1, 1999 and was specifically designed by the original manufacturer for class IIIB solvents and has been listed by a North Carolina recognized testing laboratory, and a type IIIB dry cleaning machine is not being installed in a Type II dry cleaning room.

Chris Edwards with the North Carolina Association of Launderers and Cleaners proposed to amend the Fire Prevention Code to follow NFPA 32 Chapter 6 for Type III Dry Cleaning Plants. He stated that the applicable NFPA standard would allow type 3A & 3B to be installed without sprinkler systems. Reed Jarvis, representing the Fire Service Code Revision Committee, spoke against adoption of this item. This should be sent through the ICC process.

Alan Perdue made a motion to deny this item. Butch Simmons seconded the motion. The motion carried.

**ITEM 7 – REQUEST BY THE RESIDENTIAL COMMITTEE TO REVISE SECTION R903.3 OF THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**R903.3 Coping.** Parapet walls shall be properly coped with noncombustible, weatherproof materials of a width no less than the thickness of the parapet wall. Parapet coping shall extend 2 inches minimum down the faces of the parapet.

Marshall Knight made a motion to grant this item. Terry Green seconded this motion. The motion carried.

**ITEM 8 – REQUEST BY THE RESIDENTIAL COMMITTEE TO REVISE SECTION R703.8 OF THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**R 708.3 Flashing.** Approved corrosion-resistive flashing shall be provided in the exterior wall envelope in such a manner as to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components. Install flashing per ASTM E 2112 *Standard Practice for Installation of Exterior Windows, Doors and Skylights*, or in accordance with manufacturer’s instructions. Aluminum flashing may not be used in contact with cementitious material, except at counter flashing. The flashing shall extend to the surface . . . (Include a reference to the standard in Chapter 43 – References.)

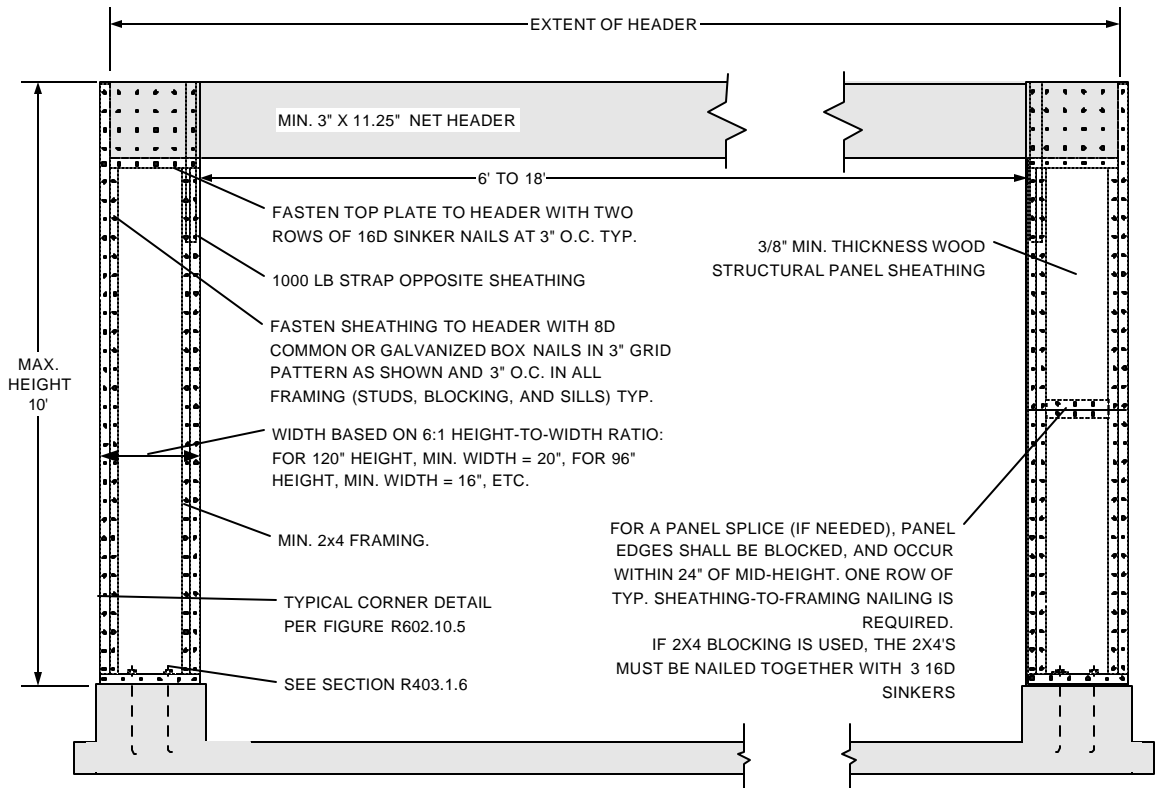
John Hitch made a motion to grant this item. Tom Avery seconded this motion. The motion carried.

**ITEM 9 – REQUEST BY THE RESIDENTIAL COMMITTEE TO ADD THE FOLLOWING TO SECTION R 602.10.5 AND FIGURE R602.10.5 (2) OF THE NORTH CAROLINA RESIDENTIAL CODE:**

**R602.10.5**

(Add the following after the first paragraph.)

**Exception:** Vertical wall segments in one story or first story of two story buildings next to garage openings shall be permitted to have a 6:1 height-to-width ratio (with height being measured from top of header to sill plate) when constructed in accordance with the following provisions. Each panel shall have a length of not less than 16 inches (406 mm) and a height of not more than 10 feet (3048 mm). Each panel shall be sheathed on one face with a single layer of 3/8-inch-minimum-thickness (9.5 mm) wood structural panel sheathing nailed with 8d common or galvanized box nails in accordance with Figure R602.10.5 (2). The wood structural panel sheathing shall extend up over the solid sawn or glued-laminated header and shall be nailed in accordance with Figure R602.10.5 (2). The header shall extend between the inside faces of the first full-length outer studs of each panel. The clear span of the header between the inner studs of each panel shall be not less than six feet (1829 mm) and not more than 18 feet (5486 mm) in length. A strap with an uplift capacity of not less than 1000 pounds (454 kg) shall fasten the header to the side of the inner studs opposite the sheathing. Two anchor bolts shall be installed in accordance with Section R403.1.6, and plate washers shall be a minimum of 2 inches by 2 inches by 3/16 inch (51 mm by 51 mm by 4.8 mm) thick and shall be used on each bolt. This exception is only permitted in Seismic Design Categories A-C.



**FIGURE R602.10.5(2)**  
**GARAGE DOOR BRACED WALL PANEL FOR USE WITH CONTINUOUSLY SHEATHED WALLS**

Marshall Knight made a motion to grant this item, and send it to the Joint Residential/Structural Committees. Barry Maness seconded this motion. The motion carried.

**ITEM 9A – REQUEST BY CHAIRMAN DAN TINGEN TO REDUCE PANEL LENGTH BY 50% AS SHOWN IN TABLE R602.10.5 OF THE NORTH CAROLINA RESIDENTIAL CODE.**

Mack Nixon made a motion to grant this item. Marshall Knight seconded the motion. The motion carried. This item will be referred to the Joint Residential/Structural Committees.

**ITEM 10 – REQUEST BY JEFF GRIFFIN, MECKLENBURG COUNTY, TO ADD TO TABLE 602.3. (1) OF THE NORTH CAROLINA RESIDENTIAL CODE AS FOLLOWS:**

**TABLE 602.3(1)  
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS**

<b>DESCRIPTION OF BUILDING ELEMENTS</b>	<b>NUMBERS AND TYPE OF FASTENERS</b>	<b>SPACING OF FASTENERS</b>
Ledger Strip	3-16d common 4 – 3” x 0.131” nail 4 – 3” 14 gage staple	Face nail at 2” on center under each joist

Lon McSwain of the NC Building Inspectors Association stated the quantity of staples should be changed to 4.

Marshall Knight made a motion to grant this item. Butch Simmons seconded the motion. The motion carried. Chairman Tingen stated this would be sent to the Structural and Residential Committees.

**ITEM 11 – REQUEST BY ED ADAMS, CHET ADAMS COMPANY, TO ADD A NEW SECTION 608 TO THE NORTH CAROLINA MECHANICAL CODE AS FOLLOWS:**

**SECTION 608  
FABRIC AIR DISTRIBUTION DEVICE**

**608.1 General.** Fabric air distribution devices are supply air distribution systems operating under positive pressure. Air distribution occurs through any combination of permeable fabric, linear perforated vents, linear mesh vents or orifices. The systems consist of circular, semi-circular or quarter circle sections ranging from 6 inches to 84 inches joined together with zippers. Fittings include elbows, transitions, reducers, saddle-T’s, and end caps.

**608.2 Material.** The materials shall have a flame-spread index not exceeding 25 and a smoke-developed index not exceeding 50. Fabric shall meet the criteria as set forth in Section 4.0 of the ACCEPTANCE CRITERIA FOR FABRIC AIR DISPERSION SYSTEMS (AC167 dated July 2000) by ICBO Evaluation Service, Inc. Product must be listed by UL as "Distribution Devices, Air" and be tested by an ICBO Evaluation Service accredited independent testing laboratory (or other third party code evaluation service acceptable to NCDOT) that the material is in accordance with the ACCEPTANCE CRITERIA FOR FABRIC AIR DISPERSION SYSTEMS (AC167 dated July 2000).

**608.3 Design.** The fabric air dispersion system shall be designed in accordance with the manufacturer's design guide or design manual. The design shall be documented in such a way as to be verifiable by the AHJ if requested by that AHJ. Design criteria shall include, but not be limited to, fabric air distribution device sizing, length, and support system, vent or orifice location and sizing, and system supply flow rates. Maximum air temperature, velocity, pressure and fabric permeability shall be taken into

consideration.

**Exception:** The fabric air dispersion system may be designed by a licensed design professional in lieu of the above.

**608.4 LIMITATIONS:**

**608.4.1** The use of the fabric air dispersion system shall be those imposed by the evaluation report(s) for that manufacturer's product and by all North Carolina Mechanical Code requirements that may apply.

**608.4.2** Product installation and supports shall comply with the manufacturer's installation instructions and the requirements of North Carolina Mechanical Code Chapter 6 and the approved evaluation report(s).

**608.4.3** Product shall not pass through any fire-rated construction or penetration.

**608.4.4** Product shall be used for positive pressure air distribution only. Negative pressure uses (i.e., return or exhaust air) are prohibited.

**608.4.5** Product shall be used in exposed interior locations only, and cannot be concealed from view by building walls, partitions, floor/ceiling assemblies, or roof.

**608.4.6** Clearance from combustibles shall be in accordance with the manufacturers installation instructions or North Carolina Mechanical Code Chapter 3, as applicable

**608.4.7** Maximum positive pressure differential shall be limited to 3.1 inches of water column or the maximum positive pressure differential of that manufacturer's product, whichever is less.

**608.4.8** Periodic cleaning and maintenance shall be in accordance with the manufacturer's recommendations. Mechanical duct cleaning means are prohibited.

**608.4.9** Documentation shall be provided from the AHU manufacturer that using this product will not adversely affect the operation of the AHU.

**608.4.10** Fabric air dispersion systems shall meet the requirements of North Carolina Mechanical Code paragraph 309.1.

Al Bass made a motion to grant this item and send it to the Mechanical Committee. Barry Maness seconded the motion. The motion carried.

**ITEM 11A – REQUEST BY CHAIRMAN DAN TINGEN (PRESENTED BY ADVANCED ENERGY CORPORATION) TO ADD NEW SECTIONS REGARDING CLOSED CRAWL SPACES IN THE NORTH CAROLINA RESIDENTIAL CODE.**

Marshall Knight made a motion to approve this item. Butch Simmons seconded the motion. The motion carried.

**ITEM #12.**

Chairman Tingen stated that Item 12 is missing on the agenda because the original Item 12 was removed without renumbering the remaining items. In its place he addressed the following two items:

**Item 12A. THE ACCESSIBILITY CODE**

Butch Simmons spoke on the proposed certification of the 2002 NC Accessibility Code for compliance with the Americans with Disabilities Act. He stated that the US Department of Justice (DOJ) had requested certain changes before the code could be certified. The General Construction Committee, at the request of the Building Code Council after the September meeting, had reviewed, clarified and agreed upon all changes requested by the Department of Justice. While clarifying the Building Code Council's requested changes with DOJ after the

Committee meeting, one additional issue came up which resulted in DOJ's requesting that Parts III and IV be relocated from the appendix to the main body of the code. Part III addresses Alterations; Part IV addresses Historic Preservation. Mr. Simmons stated that moving Parts III and IV into the main body of the code would not change code enforcement throughout the state, as they are currently being enforced now as alternate methods. He requested that the Council discuss the proposed change and then move forward to the rulemaking process with the package currently in hand.

At Mr. Simmon's request, Laurel Wright, DOI Staff, reviewed the certification process from this point forward. She stated that DOJ had informed her that they will only certify codes that are enforceable, so their process can begin only after the Building Code Council has completed final adoption of the proposed changes. If the Council votes to proceed with rulemaking at this meeting (December 2003), holds the public hearing in March 2004, and then votes to approve the rulemaking at the March 2004 meeting, then the approved package will be sent to the US Department of Justice after completion of its review by the Rules Review Committee (assuming fewer than ten comments). Upon receipt of the approved package, DOJ will then issue a Notice of Preliminary Certification. DOJ is then required to hold two public hearings, one in North Carolina and one in Washington, DC. After any comments received during these public hearings have been taken into consideration, a Notice of Final Certification will be issued. While it is possible that the public hearing comments may require an additional change to the code, slowing the process to accommodate the change, it is unlikely that will occur.

Butch Simmons made a motion to grant the changes as proposed to proceed with the rulemaking process. Marshall Knight seconded the motion. The motion carried.

#### **Item 12B. VAPOR BARRIER REQUIREMENTS**

Chairman Dan Tingen stated that an item from the Moisture Ad Hoc Committee on requirements for vapor barriers on the warm side of exterior walls in residential construction needs to be addressed. This item was referred to the Residential Committee with a request to bring back a petition for rule making to the next Council meeting.

#### **PUBLIC HEARING AND FINAL ADOPTION**

Items 13 through 18 are on the agenda for final approval by the Council. Items approved by the Council will go to the Rules Review Commission for approval. The Council will give no further consideration to items that are denied.

#### **ITEM 13 – REQUEST BY MIKE BOGGS TO ADD NEW SECTION 911.5 TO THE NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

##### **911.5 Liquefied petroleum gas distribution facilities.**

Liquefied petroleum gas distribution facilities shall comply with Chapter 119, Article 5 of the General Statutes of North Carolina, and the North Carolina Administrative Code, Title 2, Chapter 38, Section 0.700, as enforced by the N. C. Department of Agriculture and Consumer Services through the provisions of NFPA 58.

Butch Simmons made a motion to approve this item. Marshall Knight seconded the motion. The motion carried.

#### **ITEM 14 – REQUEST BY MIKE BOGGS TO DELETE REFERENCES TO LIQUEFIED PETROLEUM GAS IN TABLE 911.1 OF THE NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

**TABLE 911.1**  
**EXPLOSION CONTROL REQUIREMENTS**

<b>MATERIAL</b>	<b>CLASS</b>	<b>Barricade construction</b>	<b>Explosion (deflagration) venting or explosion (deflagration) prevention systems</b>
Liquefied petroleum gas distribution facilities	_____	Not required	Required

Chairman Tingen approved this item by unanimous consent.

**ITEM 15- REQUEST BY MIKE BOGGS TO REVISE TABLE 911.1 OF THE NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

**TABLE 911.1**  
**EXPLOSION CONTROL REQUIREMENTS**

<b>MATERIAL</b>	<b>CLASS</b>	<b>Barricade construction</b>	<b>Explosion (deflagration) venting Or explosion (deflagration) prevention systems</b>
Flammable gas, <u>not including Liquefied petroleum gas</u>	Gaseous Liquefied	Not required Not required	Required Required

Chairman Tingen approved this item by unanimous consent.

**ITEM 16 - REQUEST BY MIKE BOGGS TO DELETE SECTION 2207 OF THE NORTH CAROLINA FIRE PREVENTION CODE AND REPLACE WITH THE FOLLOWING:**

**2207.1 General.** Service stations for LP-gas fuel shall comply with Chapter 119, Article 5 of the General Statutes of North Carolina, and the North Carolina Administrative Code, Title 2, Chapter 38, Section 0.700, as enforced by the NC Department of Agriculture and Consumer Services through the provisions of NFPA 58.

**2207.2 Attendants.** Motor vehicle fueling operations shall be conducted by qualified attendants or in accordance with Section 2207.3 by persons trained in the proper handling of LP-gas.

**2207.3 Private fueling of motor vehicles.** Self-service LP-gas dispensing systems, including key, code, and card lock dispensing systems shall not be open to the public and shall be limited to the filling of permanently mounted fuel containers on LP-gas powered vehicles.

Self-service LP-gas dispensing systems shall be in accordance with the following:

1. The system shall be provided with an emergency shutoff switch located within 100 feet (30.480 meter) of, but not less than 20 feet (6.096 meters) from dispensers.

2. The owner of the dispensing facility shall provide for the safe operation of the system and the training of the users.

Chairman Tingen approved this item by unanimous consent.

**ITEM 17 – REQUEST BY MIKE BOGGS TO REVISE THE LAST PARAGRAPH OF SECTION 3001.1 OF THE NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

LP-Gas shall ~~also~~ comply with ~~Chapter 38~~ and the International Fuel Gas Code, Chapter 119, Article 5 of the General Statutes of North Carolina and the North Carolina Administrative Code, Title 2 Chapter 38, Section .0700.

Wanda Edwards stated that this section required additional wording changes as follows: delete the word “and” after ~~Chapter 38~~ and change the word “International” to “North Carolina”. The remaining words should be underlined. The amended language was as follows:

LP-Gas shall also comply with the North Carolina Fuel Gas Code, Chapter 119, Article 5 of the General Statutes of North Carolina and the North Carolina Administrative Code, Title 2 Chapter 38, Section .0700.

Chairman Tingen approved this item by unanimous consent, as amended.

**ITEM 18 – REQUEST BY ERIC JOHNSON OF THE BRICK ASSOCIATION TO REVISE SECTION 1613.3 OF THE NORTH CAROLINA BUILDING CODE AS FOLLOWS:**

**1616.3 Determination of seismic design category.** All structures shall be assigned to a seismic design category based on their seismic use group and the design spectral response acceleration coefficients,  $S_{DS}$  and  $S_{D1}$ , determined in accordance with Section 1615.1.3 or 1615.2.5. Each building and structure shall be assigned to the most severe seismic design category in accordance with Table 1616.3(1) or 1616.3(2) irrespective of the fundamental period of vibration of the structure T.

**Exception:** The seismic design category is permitted to be determined from Table 1616.3(1) alone when all of the following apply:

1. the approximate fundamental period of the structure  $T_a$ , in each of the two orthogonal directions determined in accordance with Section 1617.4.2.1 is less than  $0.8T_s$  determined in accordance with Section 1615.1.4, and
2. equation 16-35 is used to determine the seismic response coefficient,  $C_s$  and
3. the diaphragms are rigid as defined in Section 1602.

Chairman Tingen approved this item by unanimous consent.

**ITEM 19 – REQUEST BY F. REED JARVIS TO REVISE SECTION 106 TO THE 2002 NORTH CAROLINA FIRE PREVENTION CODE AS FOLLOWS:**

Once every year	Hazardous, Institutional, HighRise, Assembly <u>except those noted below</u> and Residential except one and two family dwellings and only interior common areas of dwelling units of multi-family occupancies
Once every two years	Industrial and Educational (Except public schools)
Once every three years	<u>Assembly occupancies with an occupant load less than 100,</u>

Business, Mercantile, Storage, Churches and, Synagogues

Alan Perdue stated that the words “and miscellaneous Group U occupancies” should be added after the word “Synagogues”.

Once every three years     Assembly occupancies with an occupant load less than 100,  
Business, Mercantile, Storage, Churches and,  
Synagogues, and miscellaneous Group U occupancies

Marshall Knight made a motion to approve the amended change. Alan Perdue seconded the motion. The motion carried.

**ITEM 19A – PROPOSAL BY LON MCSWAIN OF THE NC BUILDING INSPECTORS’ ASSOCIATION TO REVISE THE NORTH CAROLINA BUILDING CODE SECTION 903.3.1.1 AS FOLLOWS:**

**903.3.1.1 NFPA 13 sprinkler systems.** Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section 903.3.1.1.1, ~~903.3.1.2, or 903.3.1.3.~~

Alan Perdue made a motion to approve this item. Tom Avery seconded the motion. The motion carried.

**ITEM 20 - COMMITTEE REPORTS**

**BUILDING CODE COUNCIL COMMITTEES**

**1. BUILDING COMMITTEE**

Butch Simmons stated that the Building Committee would like to thank both the Committee and the Staff of DOI for the work on the proposed changes to the Accessibility Code that were requested by the US Department of Justice. The proposed changes reviewed by the Committee were addressed under Item 12A on today’s agenda and sent forward in the rulemaking process.

**2. JOINT RESIDENTIAL AND STRUCTURAL COMMITTEE MEETING**

Marshall Knight reported that the Committee met to discuss Section R602.10.5 and Figure 602.10.5(2) of the North Carolina Residential Code.

**AD HOC COMMITTEES**

**1. INTERNATIONAL EXISTING BUILDING COMMITTEE**

John Hitch stated that the Existing Building Committee will make a presentation at the next Council meeting.

**COMMENTARY COMMITTEES**

**1. PLUMBING CODE COMMENTARY**

Al Bass stated that the Plumbing Committee will meet once more and their work should be finished after that meeting.

**2. MECHANICAL CODE COMMENTARY**

Al Bass stated that the Mechanical Committee will finish their work after one more meeting.

**ITEM 21 – OTHER ITEMS**

1. **Letters of Resolution.** Wanda Edwards read into the record the letter of Resolutions Honoring Barry Gardner, Richard Strickland, and Aubrey Smith.
2. **Continuing Education Credits.** Chairman Tingen stated that there was an item on the September minutes that several of the Council members would discuss concerning continuing education with the Licensing Boards. Al Bass stated that, he met with the Plumbing and Heating Board. All members except for one agreed with his decision that credit (CEU's) should be extended for time spent on Council activities, but they did not vote at that time. He will contact the director and report back, then send the information to Wanda and let her notify the PE's on the Council as to what they can claim for credits. Marshall Knight stated that he had not met with the Contractor's Licensing Board as of yet. Chairman Tingen stated that Tom Turner was to talk with the Architectural Licensing Board but could not report since he was unable to be here today.
3. **Foundation Anchorage Interpretation.** Chairman Tingen stated there was one other item he wanted to send to the Residential Committee. The item concerned an interpretation that Barry Gupton, DOI Staff, issued concerning North Carolina Residential Code Section R031.6 - Foundation Anchorage.
4. **MecChek Program Software.** Chairman Tingen stated he would also like to follow up on a letter that was issued to Billy Hinton, DOI Staff, from the US Department of Energy concerning the MecChek program software that is available. Billy Hinton, with DOI Staff, stated that as of this date he had not had any response from them.
5. **Temporary Power in Structure Prior to Completion.** Chairman Tingen stated that another item he would like to refer to the Electrical Committee concerned temporary power in structures (in homes). He noted that local jurisdictions do not like having temporary power in houses before the home is complete because they are concerned that the residents might occupy the home before a Certificate of Occupancy is issued on the structure. He is forwarding a provision that is being used in Virginia Beach to the Electrical Committee for their review. Jack Neel and Marshall Knight both requested that they attend the Electrical Committee when this is reviewed. Chairman Tingen also requested that Butch Simmons attend this meeting.
6. **NC Plumbing Code Table 403.1 Rewrite.** John Hitch stated that he had proposed code language regarding a Table 403.1 rewrite that would be similar to the International code language that he would like to take back to the Plumbing Committee for review for the next code edition. A Plumbing Committee meeting will be scheduled to review the proposed rewrite.
7. **International Code Process Participation.** Butch Simmons stated he would like for the council members to participate more in the International Code process as had been discussed and requested that staff look at the budget with the idea of sending two Council members to the International Code hearings in 2004. He made a motion to send two Council members to the International Code hearings in 2004. Al Bass seconded the motion. The motion carried.

Chairman Tingen stated as there is not further business meeting adjourned.

Sincerely,

Lee Hauser, PE

Acting Secretary

**APPEAL AGENDA**

**ITEM 1 – APPEAL BY GLENN JERNIGAN & ASSOCIATES OF DECISION BY CITY OF  
FAYETTEVILLE FIRE INSPECTION**

An appeal was held in the above-referenced matter. As a result of the hearing, the Building Code Council affirmed the findings and determinations of the City of Fayetteville.