

**MINUTES OF THE NORTH CAROLINA BUILDING CODE COUNCIL  
JUNE 11, 2002 MEETING  
RALEIGH, NORTH CAROLINA**

All Council members were present with the exception of Jack Neel, Brad Lail, Tom Avery and Gary York.

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

Chairman Gardner announced that the September 10, 2002 Council meeting would be at 9:00am, at the Wake County Commons located at 4011 Cary Drive, Raleigh, NC 27610. The work session is scheduled for September 9, 2002 at 9:00am at the same location, followed by the Public Hearing at 1:00pm September 9, 2002.

Chairman Gardner introduced the four new Council members: Terry Greene, gas industry representative; Lon Culbertson, electrical engineer representative; Barry Maness, mechanical contractor representative; and Tim Reynolds, electrical contractor representative.

Chairman Gardner asked Wanda Edwards to give a presentation about the rulemaking procedure and how the procedures affect the operation of the Board.

Ms. Edwards stated that proposed code changes are now considered "Petitions for Rulemaking" under the Administrative Procedures Act. The Building Code Council must grant or deny petitions within 120 days of receipt. To grant a petition, allows the petition to continue through the rulemaking process. Denied petitions are no longer considered.

When the Building Code Council has granted a "Petition for Rulemaking", a "Notice of Rulemaking Proceedings" must be published in the *North Carolina Register*. Also, the staff will initiate a request for Fiscal Notes from the Office of State Budget and Management. A "Notice of Public Hearing" must be published in the *Register* at least 15 days prior to the hearing.

After the "Notice of Public Hearing" is published, the Building Code Council will receive written comments from the public for 60 days prior to the hearing. Once the 60-day comment period is over, the fiscal notes are received, and the public hearing is held, the Building Code Council may take final action on the Petition. The Council will vote to adopt the petitions as rules, or deny the petitions. Denied petitions are no longer considered. Adopted petitions (proposed rules) are forwarded to the Rules Review Commission. The Rules Review Commission determines if the Building Code Council has statutory authority to make the rule, the rule is clear and unambiguous, and the rule is reasonably necessary.

After approval by the Rules Review Commission, the rule awaits any possible Legislative action, during the next session of the Legislature. The rule becomes effective January 1

of the year following approval by the Building Code Council, the Rules Review Commission and survival at the Legislature.

Chairman Gardner directed the Administrative Committee to meet and review the staff's recommendations and report back at the next Council meeting.

**ITEM 1 - APPROVAL OF MINUTES OF THE DECEMBER 11, 2001, BUILDING CODE COUNCIL MEETING.**

Mr. Tingen made a motion to approve the minutes. Al Bass seconded the motion. The motion carried unanimously.

**ITEM 2 - DISCUSSION OF MOTION APPROVED AT LAST COUNCIL MEETING TO INCORPORATE FUTURE EDITIONS OF THE INTERNATIONAL CODES BY REFERENCE INTO THE NORTH CAROLINA CODES**

Aubrey Smith made the following motion: "Any past actions by the Building Code Council that incorporate by reference any future or subsequent volumes, amendments, or editions of the National Electrical Code, International Fire Prevention Code, International Fuel Gas Code, International Building Code, International Mechanical Code, International Plumbing Code, International Energy Conservation Code, International Residential Code are rescinded." Al Bass seconded the motion. The motion carried unanimously.

**ITEM 3 - ELECTION OF OFFICERS**

Barry Gardner was re-elected Chairman of the Council, John Hitch was elected Vice-Chairman and Wanda Edwards was elected Secretary.

**ITEM 4 - APPEAL BY ARCADIS ENGINEERING OF REQUIREMENT FOR SMOKE DETECTION SYSTEM FOR BIOSOLIDS COMPOSTING FACILITY IN THE CITY OF GOLDSBORO**

This item was resolved prior to the Council meeting.

**ITEM 5 - RESOLUTIONS HONORING GREG MULHOLLAND, ROBERT PIERCE, DENNIS NORRIS AND WILLIAM BULLOCK**

Wanda Edwards read the resolutions into the record. Copies of the resolution are included following the minutes.

Referring to Items 6 through 11, Wanda Edwards stated that these items are considered "Petitions for Rulemaking" under the rulemaking process. In order to comply with the Administrative Procedures Act, the items before the Council are voted on to grant or deny the Petition for Rulemaking", allowing granted Petitions to proceed through the rulemaking process. The staff will file the Notice of Public Hearing on June 15, 2002. The staff has requested the fiscal notes from Office of State Budget and Management, therefore the public hearing for the petitions granted on June 11, 2002 will be held on September 9, 2002.

**ITEM 6 – PROPOSAL BY BILL ZIEGERT OF THE SMOKE SAFETY COUNCIL TO REVISE SECTION 707.14.1 OF THE NC BUILDING CODE AS FOLLOWS:**

**707.14.1 Elevator lobby.** Elevators opening into a fire resistance rated corridor as required by Section 1004.3.2.1 and elevators opening into non-rated corridors of A, E, I, M, and R occupancies with occupant loads of 30 or more, shall be provided with an elevator lobby at each floor containing such a corridor. The lobby shall completely separate the elevators from the corridor by ~~fire barriers~~ smoke partitions as defined in Section 710, and required opening protection. Elevator lobbies shall have at least one means of egress complying with Chapter 10 and other provisions of this code.

Aubrey Smith stated the committee recommended denying this item. This item was submitted to the International Code Council and failed to gain approval by ICC.

Mr. Smith made a motion to deny the proposal. Richard Strickland seconded the motion. The motion carried unanimously.

**ITEM 7 – PROPOSAL BY THE NC BUILDING INSPECTOR'S ASSOCIATION TO REVISE SECTION 302.3.3 EXCEPTION 2 AS FOLLOWS:**

The private garage in Group R-3 shall be separated from the residence and its attic area by means of minimum ½ inch (12.7 mm) gypsum board applied to the garage side. Door openings between the garage and the residence shall be equipped with either solid wood doors not less than 1-3/8 inches (35 mm) thick, solid or honeycomb core steel doors not less than 1-3/8 inches (35 mm) thick or doors in compliance with Section 714.2.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.

Lon McSwain with the NC Building Inspectors Association stated this item is included in the North Carolina Residential Code. The item was proposed to make sure that R-3 occupancies that are not covered by the Residential Code have the same requirement in the Building Code. Mr. McSwain noted the item should read: The private garage in Group R-3.

Mr. Smith made a motion to approve the proposal. Richard Strickland seconded the motion. The motion carried unanimously.

**ITEM 8 – STUDY THE REQUIREMENT IN SECTION 903.2.1.3 FOR CHURCHES WITH OCCUPANCIES OF 300 OR GREATER TO BE SPRINKLERED AND MAKE RECOMMENDATIONS TO THE FULL COUNCIL.**

**903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the following conditions exists:

1. The fire area exceeds 12,000 square feet (1115 m<sup>2</sup>).
2. The fire area has an occupant load of 300 or more.

**Exceptions:**

1. This requirement shall not apply to assembly occupancies used primarily for worship with fixed seating and part of a separated use.
2. This requirement shall not apply to assembly occupancies consisting of a single multipurpose room that are not used for exhibition or display and are part of a separated use.
3. The fire area is located on a floor other than the level of exit discharge.

Mr. Strickland made a motion to approve the proposal. Tom Turner seconded the motion. The motion carried unanimously.

**ITEM 9 – REQUEST BY DANIEL GLEIBERMAN OF FALCON WATERFREE TECHNOLOGIES TO REVISE SECTION 419 AND 425 AS FOLLOWS:**

**419.1 Approval.** Urinals shall conform to ASME 112.19.2, CSA B45.1 or CSA B45.5. Urinals shall conform to the water consumption requirements of Section 604.4. Urinals shall conform to the hydraulic performance requirements of ASME 112.19.6, CSA B45.1 or CSA B45.5.

Urinals that do not use water shall be permitted provided the urinals

- (1) provide a barrier liquid sealant contained in a removable trap to maintain the trap seal;
- (2) permit the uninhibited flow of water through the trap to the sanitary drainage system;
- (3) comply with ANSI Z124.9 and ASME 112.19.2, as applicable,

**425. Flushing devices required.** Each water closet, urinal, clinical sink, and any plumbing fixture that depends on trap siphonage to discharge the fixture contents to the drainage system shall be provided with a flushometer valve, flushometer tank or a flush tank designed and installed to supply water in quantity and rate of flow to flush the contents of the fixture, cleanse the fixture, and refill the fixture trap.

A flushometer valve, flush tank, or similar device shall not be required for urinal fixtures that comply with the waterless test requirements of ANSI Z124.9 and which:

- (1) provide a barrier liquid sealant contained in a removable trap to maintain the trap seal;
- (2) permit the uninhibited flow of water through the trap to the sanitary drainage system;
- (3) comply with ANSI Z124.9 and ASME 112.19.2 as applicable, and

Mr. Bass made a motion to approve the proposal. Richard Strickland seconded the motion. The motion carried unanimously.

**ITEM 10 – PROPOSAL BY NANETTE McELMAN OF IBHS TO INCLUDE WINDBORNE DEBRIS PROTECTION IN BUILDING CODE AS PRINTED IN SECTION 1609.1.4, TABLE 1609.1.4 AND SECTION 1609.2 OF THE 2000 INTERNATIONAL BUILDING CODE**

Include windborne debris protection for structures within 1500 feet of the mean high water mark of the Atlantic Ocean, as printed in Section 1609.1.4, Table 1609.1.4 and Section 1609.2 of the 2000 International Building Code.

Mr. Tingen made a motion to approve the proposal as revised. Al Bass seconded the motion. The motion carried.

**ITEM 11 – PROPOSAL BY NANETTE McELMAN OF IBHS TO INCLUDE WINDBORNE DEBRIS PROTECTION IN RESIDENTIAL CODE AS PRINTED IN SECTION R301.2.1.2, TABLE R301.2.1.2 AND SECTIONS R613.4 AND R613.7 OF THE 2000 INTERNATIONAL RESIDENTIAL CODE**

Include windborne debris protection for structures within 1500 feet of the mean high water mark of the Atlantic Ocean, as printed in Section R301.2.1.2, Table R301.2.1.2 and Sections R613.4 and R613.7 of the 2000 International Residential Code.

Mr. Tingen made a motion to approve the proposal as revised. Al Bass seconded the motion. The motion carried.

**ITEM 12 – OTHER ITEMS**

Marshall Knight made a motion that the 1999 Residential Code could be used with the 2002 Plumbing Code. Al Bass seconded the motion. The motion failed.

Al Bass stated that the Plumbing Fixture Ad Hoc committee met one time and will meet again on July 11<sup>th</sup> at 9:00am at NC Department of Insurance.

Dan Tingen stated that Moisture Ad Hoc committee met, and identified areas to study. The committee decided to concentrate their studies in four areas as follows: bulk water issues, concentrating on flashing; moisture barrier/moisture retarders in crawl spaces, attics, walls; make up air for mechanical systems; and insulation construction details. Meetings are scheduled for June 24<sup>th</sup>, July 23<sup>rd</sup>, August 22<sup>nd</sup>, September 24<sup>th</sup> at the offices of the NC Department of Insurance.

Grover Sawyer, Deputy Commissioner, Engineering Division, NC Dept of Insurance, pointed out that our previous code allowed area increases for the use of 13R sprinklers in R-2 occupancies. The 2002 edition of the Code does not allow the area increase with the use of 13R sprinklers. Discussion followed about the use of 13R sprinklers in this application. Chairman Gardner suggested the Fire Prevention Committee study this issue and report back to the Council at the September meeting.

Barry Gardner announced that the Council would form an ad hoc committee to review the International Existing Building Code, and write the proposed North Carolina amendments.

Laurel Wright, NCDOT, updated the Council on the status of the certification of the Accessibility Code by the Department of Justice. Wright stated DOI has received an e-mail to provide an informal update on the status of the certification. The e-mail stated that a Department of Justice code specialist and an architect have reviewed the Accessibility Code, and with minor revisions it can be certified in the near future.

Barry Gardner directed the Administration Committee to review the staff recommendations concerning the Council's operations and the rulemaking process and report back to the Council with recommendations.

Wanda Edwards stated fire ordinances from Henderson County had been submitted to the Council for approval. Richard Strickland, Chairman of the Fire Prevention Committee, stated he reviewed the proposed ordinances and there was nothing in the ordinances that would require action by the Building Code Council.

There being no further business, the meeting was adjourned.

Sincerely,

Wanda D. Edwards, PE  
Secretary

**BUILDING CODE COUNCIL RESOLUTION  
TO HONOR  
WILLIAM N. BULLOCK**

**WHEREAS**, the North Carolina Building Code Council is composed of members who volunteer their time and service to the State of North Carolina; and

**WHEREAS**, the interest and expertise brought to the Council by William Bullock contributed to the successful discharge of the Council's responsibility to protect the health, safety, and welfare of the citizens of the State of North Carolina by insuring that the North Carolina Building Code contains minimum provisions and standards in the construction of buildings and structures, including regulation of activities and conditions that pose dangers of fire, explosion or related hazards; and

**WHEREAS**, the State of North Carolina was privileged to have William Bullock, serve on the Council from April, 1997 until April, 2002, during which time he served on the Council's Electrical, Mechanical and Energy Committees. With steadfast commitment and effort he strove to improve the quality of the North Carolina Code. He supported the model code process and assisted in bringing North Carolina to the forefront of code development and enforcement.

**BE IT THEREFORE RESOLVED** that the North Carolina Building Code Council, in session on Monday, the 11th day of June, 2002, hereby publicly expresses its sincere appreciation to William Bullock for his dedicated service to the citizens of North Carolina.

**RESOLVED** this the 11th day of June, 2002.



Attested: \_\_\_\_\_

Barry W. Gardner  
Chairman

**BUILDING CODE COUNCIL RESOLUTION  
TO HONOR  
GREGORY F. MULHOLLAND, PE**

**WHEREAS**, the North Carolina Building Code Council is composed of members who volunteer their time and service to the State of North Carolina; and

**WHEREAS**, the interest and expertise brought to the Council by Greg Mulholland contributed to the successful discharge of the Council's responsibility to protect the health, safety, and welfare of the citizens of the State of North Carolina by insuring that the North Carolina Building Code contains minimum provisions and standards in the construction of buildings and structures, including regulation of activities and conditions that pose dangers of fire, explosion or related hazards; and

**WHEREAS**, the State of North Carolina was privileged to have Greg Mulholland serve on the Council from March, 1997, until April 2002, during which time he served as the Chairman Council's Energy and Electrical Committees, and served on the Council's Administration and Mechanical Committees. With steadfast commitment and effort he strove to improve the quality of the North Carolina Code. He supported the model code process and assisted in bringing North Carolina to the forefront of code development and enforcement.

**BE IT THEREFORE RESOLVED** that the North Carolina Building Code Council, in session on Tuesday, the 11th day of June, 2002, hereby publicly expresses its sincere appreciation to Greg Mulholland for his dedicated service to the citizens of North Carolina.

**RESOLVED** this the 11th day of June, 2002.



Attested: \_\_\_\_\_

Barry W. Gardner  
Chairman

**BUILDING CODE COUNCIL RESOLUTION  
TO HONOR  
ROBERT C. PIERCE**

**WHEREAS**, the North Carolina Building Code Council is composed of members who volunteer their time and service to the State of North Carolina; and

**WHEREAS**, the interest and expertise brought to the Council by Bob Pierce contributed to the successful discharge of the Council's responsibility to protect the health, safety, and welfare of the citizens of the State of North Carolina by insuring that the North Carolina Building Code contains minimum provisions and standards in the construction of buildings and structures, including regulation of activities and conditions that pose dangers of fire, explosion or related hazards; and

**WHEREAS**, the State of North Carolina was privileged to have Bob Pierce serve on the Council from July, 1989 until April, 2002, during which time he served on the Council's Mechanical and Fire Committees. With steadfast commitment and effort he strove to improve the quality of the North Carolina Code. He supported the model code process and assisted in bringing North Carolina to the forefront of code development and enforcement.

**BE IT THEREFORE RESOLVED** that the North Carolina Building Code Council, in session on Tuesday, the 11th day of June, 2002, hereby publicly expresses its sincere appreciation to Bob Pierce for his dedicated service to the citizens of North Carolina.

**RESOLVED** this the 11th day of June, 2002.



Attested: \_\_\_\_\_

Barry W. Gardner  
Chairman

**BUILDING CODE COUNCIL RESOLUTION  
TO HONOR  
DENNIS R. NORRIS, PE**

**WHEREAS**, the North Carolina Building Code Council is composed of members who volunteer their time and service to the State of North Carolina; and

**WHEREAS**, the interest and expertise brought to the Council by Dennis Norris contributed to the successful discharge of the Council's responsibility to protect the health, safety, and welfare of the citizens of the State of North Carolina by insuring that the North Carolina Building Code contains minimum provisions and standards in the construction of buildings and structures, including regulation of activities and conditions that pose dangers of fire, explosion or related hazards; and

**WHEREAS**, the State of North Carolina was privileged to have Dennis Norris serve on the Council from April, 1997 until April, 2002, during which time he served on the Council's Energy, Mechanical, Electrical and Residential Committees. With steadfast commitment and effort he strove to improve the quality of the North Carolina Code. He supported the model code process and assisted in bringing North Carolina to the forefront of code development and enforcement.

**BE IT THEREFORE RESOLVED** that the North Carolina Building Code Council, in session on Tuesday, the 11th day of June, 2002, hereby publicly expresses its sincere appreciation to Dennis Norris for his dedicated service to the citizens of North Carolina.

**RESOLVED** this the 11th day of June, 2002.



Attested: \_\_\_\_\_

Barry W. Gardner  
Chairman

March 28, 2002

02-01

MEMORANDUM

To: Building Code Council Members  
Inspection Departments and Other Related Parties

From: Grover L. Sawyer, Jr., P.E.  
Deputy Commissioner

Re: Engineered I-Joists for  
One and two Family Construction

At the March 19, 2002 Building Code Council Joint Structural and Residential Committee meeting, the Joint Committee directed the staff to send the following Memorandum on Engineered I-joists.

1. Engineered I-Joists are considered an Alternate Material and approved at the sole discretion of the local CEO. The CEO should require a current compliance report.
2. Sealed plans are not required for repetitive members such as I-Joists with uniformly distributed loads (no point loads).
3. Sealed plans are not required for a change from conventional joists to I-joists when the original plans are not sealed.
4. A design is required for a change to a sealed plan altered in any way. This would apply to both conventional framing as well as engineered wood products.
5. A design is required for a point load condition including the load path to the footing. This would apply to conventional framing lumber as well as engineered wood products.
6. A design is required for all metal plate connected trusses (not I-joists).

GLSjr

May 15, 2002

02-02

MEMORANDUM

To: Building Code Council Members  
Inspection Departments and Other Related Parties

From: Grover L. Sawyer, Jr., P.E.  
Deputy Commissioner

Re: Leak Detection Requirements for Remote Pumping Systems at Motor Fuel Dispensing Facilities effective immediately

It is the interpretation of the North Carolina Department of Insurance Office of the State Fire Marshal that the requirements of the North Carolina Fire Prevention Code Section 2206.7.7.1 **Leak Detection** may be satisfied by either:

1. A Mechanical Leak Detector which reduces the flow of product to 0.05 gpm or 3 gph at the dispenser. The reduced flow at the dispenser shall be considered indication at an approved location.
2. An Electronic Line Leak Detection system at a location approved by the authority having jurisdiction.

GLSjr

May 15, 2002

02-03

MEMORANDUM

To: Building Code Council Members  
Inspection Departments and Other Related Parties

From: Grover L. Sawyer, Jr., P.E.  
Deputy Commissioner

Re: Motor Fuel Dispensing and Storage  
on Farm Land as a Part of a Farm Operation

GS 143-138 (b) states “nothing in this article shall be construed to make any building rules applicable to farm buildings located outside of the building-rules jurisdiction of any municipality.” Farm buildings are defined as structures, other than residences and structures appurtenant thereto, for on farm use.

It is the interpretation of the North Carolina Department of Insurance Office of the State Fire Marshal that the use of structures for the dispensing and storage of motor fuel located on a farm located outside of the building-rules jurisdiction of any municipality, and determined to be a farm by the local jurisdiction having authority over the site, and is specifically for on farm use, is exempt from North Carolina Fire Prevention Code requirements.

GLSjr

July 2, 2002

MEMORANDUM

**TO:** Members of the Building Code Council  
Administration Committee

**FROM:** Wanda D. Edwards, PE

**SUBJECT:** Meeting schedule

The Building Code Council Administration Committee will meet on July 18, 2002 at 9:00 am to review the staff recommendations from the last Council meeting. There will be an appeal hearing immediately following the committee meeting. The members of the Administration committee are asked to remain for the hearing. The meeting and hearing will be held at the office of the North Carolina Department of Insurance located at 410 North Boylan Avenue, Raleigh, North Carolina.

**AGENDA**  
**FIRE PREVENTION COMMITTEE MEETING**  
**JULY 18<sup>TH</sup> AT 1:00PM**  
**410 NORTH BOYLAN AVENUE**  
**RALEIGH, NORTH CAROLINA**

**ITEM 1 - STUDY AND RECOMMEND TO THE BUILDING CODE COUNCIL WHETHER**  
**AREA INCREASES SHOULD BE ALLOWED IN R-2 OCCUPANCIES WHEN 13R**  
**SPRINKLERS ARE INSTALLED**