

**MINUTES OF THE NORTH CAROLINA BUILDING CODE COUNCIL MEETING
JUNE 11, 12 AND 13, 2001
NORTH RALEIGH HILTON**

Attendees: All members were present except 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 Barry Gardner called the meeting to order at 1:00 pm. The chairman announced the next meeting would be held in Winston-Salem on December 11, 2001 at the Ramada Plaza Hotel.

Committee meetings will be held as follows:

Administration	July 18, 2001	2:00 pm	410 N. Boylan Avenue, Raleigh
Fire	September 18, 2001	9:30 am	410 N. Boylan Avenue, Raleigh
Mechanical	September 18, 2001	1:00 pm	410 N. Boylan Avenue, Raleigh
Structural	September 19, 2001	9:30 am	410 N. Boylan Avenue, Raleigh
Electrical	September 20, 2001	9:30 am	410 N. Boylan Avenue, Raleigh

Chairman Gardner introduced the new Council member Dan Murray, who is Assistant Director of the FCAPS Program with the Office of State Construction. Mr. Murray replaces Bert Neily who resigned in March.

The following items were considered:

ITEM 1 - APPROVAL OF MINUTES OF THE DECEMBER 12, 2000, BUILDING CODE COUNCIL MEETING.

Dan Tingen made a motion to approve the minutes as written. The motion was seconded and the motion carried.

ITEM 2 - EVALUATION OF STATEMENT OF ECONOMIC INTEREST FILED BY WILLIAM BULLOCK, JACK NEEL, GARY YORK, GREG MULHOLLAND, DENNIS NORRIS AND BRAD LAIL.

Wanda Edwards read the memo from the Board of Ethics stating the above mentioned Council members do not have any conflicts of interest.

ITEM 3 - PRESENTATION OF FISCAL NOTE PREPARED BY OSBM.

Warren Plonk, Financial Evaluator with the Office of State Budget and Management made a presentation about the requirement for the fiscal note. Several members of

the team who prepared the fiscal note gave background material about the writing of the note and answered questions from the Council members.

ITEM 4 - APPEAL BY CLINE DESIGN ASSOCIATES OF GROVER SAWYER'S INTERPRETATION THAT ELEVATORS IN ¾ SPLIT, TYPE VI RESIDENTIAL BUILDINGS.

On May 16, 2001 a Hearing Committee consisting of the Administration and General Construction Committees of the Building Code Council met to hear an appeal filed by Cline Design Associates. The appeal concerned an interpretation by the staff regarding the requirement for elevators in 3/4 split Type VI Residential Buildings. (Section 30.4.1.5.1 of Volume I-C.)

The staff's interpretation stated that buildings 3 stories in height on the front elevation and four stories (or more) in height on the rear elevation were required to provide elevators if the building contained four or more stories used for residential occupancy. Laurel Wright, DOI staff stated the staff's interpretation was based on the wording in the 1999 Edition of the Volume I-C, Section 30.4.1.5.1, which was changed from the 1991 Edition. The language in the 1991 Edition, Section 30.4.1.5.1 stated "all privately owned buildings four or more stories in height...." In the 1999 Edition the wording was changed to say "all privately-owned buildings four or more *residential* stories in height...". The intended purpose of the change was to co-ordinate the language with the requirements of the Federal Fair Housing Act.

The Hearing Committee determined that the current code language and the staff's interpretation did not reflect the Council's intent. The Council's intent was that elevators were not required in 3/4 split residential buildings. Therefore, the Hearing Committee directed staff to rewrite the applicable sections, and bring proposed code changes to the Council meeting. The code changes are required in both the current Volume 1-C and in the 2002 NC amendments to Volume 1-C. The two proposed changes are Items 4A and 4B below. Item 4A refers to the current code (1999 Edition) and is effective as of June 12, 2001. Item 4B are the changes that will be printed in the 2002 Revisions to the Accessibility Code.

ITEM 4A - PROPOSED CODE CHANGE RESULTING FROM APPEAL, PREPARED BY LAUREL WRIGHT, DOI TO REVISE SECTION 30.4.1.5 OF THE 1999 EDITION OF THE ACCESSIBILITY CODE, EFFECTIVE JUNE 12, 2001 AS FOLLOWS:

30.4.1.5.1 All privately owned buildings four (4) or more ~~residential~~ stories in height, excluding basements as defined by Volume I, Section 503.2.4, regardless of the gross area per floor.

30.4.1.5.2 All privately-owned buildings three (3) ~~residential~~ stories in height, excluding basements as defined by Volume I, Section 503.2.4, having an occupant content of 100 or more persons per floor.

30.4.1.5.3 For privately owned buildings an elevator shall be provided to serve only the elevated residential ground floor in a building that has

- (1) Three (3) ~~residential~~ stories with an occupant content of 99 or fewer persons per floor: or
- (2) Two (2) or fewer ~~residential~~ stories.

30.4.1.5.4 All publicly-owned buildings two (2) or more stories in height.

NOTE: Sketches on page 448 will be revised to contain the same wording as noted in their reference section. The changes above are required for the current versions of the code and will be effective immediately.

Tom Turner made a motion to approve. The motion was seconded and the motion carried.

ITEM 4B – PROPOSED CODE CHANGE RESULTING FROM APPEAL, PREPARED BY LAUREL WRIGHT, DOI TO REVISE SECTION 30.4.1.5 FOR THE 2002 REVISIONS OF THE ACCESSIBILITY CODE AS FOLLOWS:

30.4.1.5.1 All privately-owned buildings four (4) or more stories in height, excluding basements as defined by ~~Volume I, Section 503.2.4, the North Carolina Building Code Section 502.1, definition of BASEMENT,~~ regardless of the gross area per floor.

30.4.1.5.2 All privately-owned buildings three (3) stories in height, excluding basements as defined by ~~Volume I, Section 503.2.4, the North Carolina Building Code Section 502.1 definition of BASEMENT,~~ having an occupant content of 100 or more persons per floor.

30.4.1.5.3 For privately-owned buildings an elevator shall be provided to serve only the elevated residential ground floor in a building that has

- (1) Three (3) ~~residential~~ stories with an occupant content of 99 or fewer persons per floor: or
- (2) Two (2) or fewer ~~residential~~ stories.

30.4.1.5.4 All publicly-owned buildings two (2) or more stories in height.

Tom Turner made a motion to approve. The motion was seconded and the motion carried.

ITEM 5 – APPEAL BY STEVEN LAWRENCE OF THE INTERPRETATION BY RICK DIPERT, NCDOT, CONCERNING THE LOCKING OF EXIT DOORS IN JIM’S PAWNSHOP, FAYETTEVILLE, NC.

Steve Lawrence representing Jim Faircloth, owner of Jim’s Pawnshop, stated the basis of the appeal was a local inspector’s decision. Subsequent to the local inspector’s decision, Richard Dipert, DOI staff, issued a letter stating that the exits provided and

the locking mechanisms for the doors do not meet the Code. Mr. Faircloth is concerned about a sophisticated criminal breaking into his store. Mr. Faircloth stated the store has closing procedures that would prevent someone from accidentally being locked in the building. Mr. Faircloth would like specific solutions presented that would meet the requirements of the code and address break-ins.

Mr. Richard Dipert, Fire Protection Engineer, Engineering Division, NC Department of Insurance addressed the council. Mr. Dipert stated there are two issues: did the Fayetteville Fire Prevention Bureau and the DOI staff correctly interpret the requirements of the code.

Mr. Dipert stated there are double cylinder dead bolt locks on the doors and there is a vehicle barrier at the main entrance. The main entrance door is the only door that opens in both directions. The code states the doors must be openable without special keys, tools or special knowledge. The required exits are the main entrance, the firing range door and a third door which has the exit sign covered up by t-shirts. Mr. Dipert stated that the addition of one interior door, one exterior door and reconfiguration of the locking system, until such time as the new exterior door is installed, would meet the code. Mag locks could be added to provide additional security if the owner feels like he needs it

Mr. Faircloth addressed the council and asked if the council could consider someone who has thousands of guns and how they can maintain security and meet the code.

John Hitch made a motion to uphold the interpretation of DOI, and to give instructions to DOI to meet with the owner and work out a reasonable solution with the owner. Chairman Gardner stated the Council is voting on the appeal only. A "yes" vote upholds Mr. Dipert's interpretation. John Hitch stated his motion is to vote on the appeal, he offered the caveat to help the owner comply.

Wanda Edwards, DOI staff, stated DOI would be happy to meet with Mr. Faircloth, and attempt to work out a solution, but can not guarantee the issue can be resolved. Rick Dipert stated that he had met with the owner and the owner's and had presented solution to the owner.

Diane Miller, Attorney General representative for the Council, stated a motion was not needed.

Tom Turner asked to make one statement. Mr. Turner stated he did not like the tone that he heard from staff. Mr. Turner stated the request was for the staff to work with the owner to come up with a solution that was fair and reasonable and met the code. Mr. Turner stated that what he heard was "this is what was said and this is what it has to be" and that staff may not be able to work out a fair and reasonable solution with the owner. Mr. Turner stated he would like these statements in the minutes.

Council voted unanimously to uphold the Staff's decision.

ITEM 6 - REQUEST BY THE CITY OF MOUNT AIRY FOR APPROVAL OF A LOCAL ORDINANCE ALLOWING FIRE MARSHAL TO REQUIRE INSTALLATION OF KNOX BOX.

Al Bass made a motion to allow the request. Motion was seconded and the motion carried.

ITEM 7 - REQUEST BY THE NC BUILDING INSPECTORS ASSOCIATION TO ALLOW THE CONTINUED USE OF THE CURRENT CODE UNTIL JULY 1, 2002 AND TO CONTINUE WITH THE EFFECTIVE DATE OF JANUARY 1, 2002 FOR THE INTERNATIONAL CODES.

The Council voted to allow the continued use of the current North Carolina Codes, for General Construction, Plumbing, Mechanical, Gas, Residential, and Energy until December 31, 2002. The 2002 Edition of the North Carolina Codes for Building, Electrical, Fire Prevention, Plumbing, Mechanical, Gas, Residential, and Energy shall be effective December 31, 2001. The current versions of the Fire Code and Electrical Code may not be used after December 31, 2001.

The current versions of the Existing Building Code (1996 Edition with revisions through 1999) and the Accessibility Code (1999 Edition) will remain effective.

Brad Lail made a motion to approve. The motion was seconded and the motion carried.

ITEM 8 - REQUEST BY CITY OF WILSON TO PERFORM PLAN REVIEWS UNDER TABLE 602.

Aubrey Smith made a motion to approve. The motion was seconded and the motion carried.

ITEM 9 - RESOLUTION BY THE BUILDING CODE COUNCIL HONORING HERBERT NEILY.

Wanda Edwards read the resolution honoring Bert Neily. Marshall Knight made a motion to approve. The motion was seconded, and the motion carried.

ITEM 10 - LETTERS HONORING MEMBERS OF THE AD HOC COMMITTEES.

Wanda Edwards read the letter honoring members of the Ad Hoc Committees. Edwards stated that a list of ad hoc committee members and their respective committees would be listed in the minutes.

ITEM 11 - APPROVAL OF THIRD PARTY INSPECTION APPLICATION OF PYRAMID1, INC.

Al Greene, Department of Insurance staff, stated that approval would allow the company to review and approve plans for modular construction. He has reviewed their application and recommends approval.

John Hitch made a motion to approve the proposal. The motion was seconded, and the motion carried.

MECHANICAL COMMITTEE MEETING - PLUMBING CODE (ITEM 12 - ITEM 43)

ITEM 12 - PROPOSAL BY LAUREL WRIGHT, NCDOT, TO REVISE SECTION 403.3.2.1 UNISEX FACILITIES TO READ AS FOLLOWS:

403.3.2.1 Unisex Facilities. A single unisex facility may be used by both males and females when the classroom area served is 1200 square feet or less and is either used for kindergarten through 2 or is a modular classroom used for any grade level. Unisex facilities may be provided for teacher/staff if their total occupant load within 200 feet is 15 or less.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 13 - PROPOSAL BY GREGORY FINNICAN TO REVISE FOOTNOTE 4 OF TABLE 407.2.5 TO READ AS FOLLOWS:

When the gross area of a building or tenant space is 2,500 square feet or less, one toilet room with lockable door may be used by both male and female occupants.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 13A - PROPOSAL BY LAUREL WRIGHT, DOI, TO REVISE SECTION 11.8.1.1 OF THE ACCESSIBILITY CODE AS FOLLOWS:

~~11.8.1.1 Each of the following buildings or facilities having a maximum 2,500 square feet (232.25 square meters) may have a minimum of one toilet facility that will serve both men and women.~~ When the gross area of a building or tenant space in a building of the type noted below is 2,500 square feet (232.25 square meters) and less, one toilet room with lockable door may be used by both male and female occupants.

- (1) Churches or other place of worship;
- (2) Barber shops, beauty shops, coin operated laundries, offices;
- (3) Foundries and heavy manufacturing;
- (4) Retail stores;
- (5) Warehouses.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 13B - PROPOSAL BY LAUREL WRIGHT, DOI, TO REVISE SECTION 51.4.5.1 OF THE ACCESSIBILITY CODE AS FOLLOWS:

51.4.5.1 A unisex toilet room shall comply with the following:

- (1) ~~When the gross area of a building or tenant space is~~ Buildings and facilities having a gross area of 2,500 gross square feet (232.25 square meters) or less, a single one toilet room with lockable door complying with 11.8.2.4 or 11.8.2.2 and 11.8.3 may be permitted used by both male and female occupants.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 14 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP THE WORDING IN THE INTERNATIONAL PLUMBING CODE FOR SECTION 802.1.1 FOOD HANDLING.

Al Bass made a motion to approve the committee recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 15 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP THE WORDING IN THE INTERNATIONAL PLUMBING CODE FOR SECTION 803 SPECIAL WASTES.

Brad Lail made a motion to approve the committee recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 16 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP THE WORDING IN THE INTERNATIONAL PLUMBING CODE FOR SECTION 703.2 SEWER IN THE FILLED GROUND.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 17 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP THE WORDING IN THE INTERNATIONAL PLUMBING CODE FOR SECTION 708.3.3 CHANGES OF DIRECTION AND SECTION 708.3.5 BUILDING DRAIN AND BUILDING SEWER JUNCTION.

Brad Lail made a motion to approve the committee's decision to deny the proposal. The motion was seconded, and the motion carried.

ITEM 18 - PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 712.4 TO READ AS FOLLOWS:

A sewage pump or ejector pump discharge pipe shall not discharge directly into a septic tank. The pumped line shall discharge laterally into a 4" gravity line not less than 10' from the connection to the tank through a lateral wye branch.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 19 - PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 1003.2 TO READ AS FOLLOWS:

Size and type. The type and location of each interceptor or separator shall be approved by the plumbing official, or when tied into a private sewage system as required by the local health official.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 20 - PROPOSAL BY STEVEN BERKOWITZ, ON-SITE ENGINEERING, TO PROHIBIT CONDENSATE FROM BEING DISCHARGED INTO A PRIVATE SUBSURFACE SEWAGE SYSTEM.

Brad Lail made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 21 - PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 1003.5 TO READ AS FOLLOWS:

Discharge to a private subsurface wastewater system shall not be allowed for drains from repair garages, gasoline stations with grease racks, grease pits or work racks.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 22 - PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE DEFINITION OF INDIVIDUAL SEWAGE DISPOSAL SYSTEM TO READ AS FOLLOWS:

A system for disposal of domestic sewage by means of a septic tank, cesspool or mechanical treatment, designed for utilization apart from a public sewer to serve a single establishment or building.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 23 – PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 301.3 TO PROVIDE FOR GRAY WATER RECYCLING SYSTEMS.

301.3 Connections to drainage system. All plumbing fixtures, drains, appurtenances and appliances used to receive or discharge liquid wastes or sewage shall be directly connected to the 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 recycling system shall be installed in full compliance with this code.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 24 – PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 302.1 TO READ AS FOLLOWS:

Detrimental or dangerous materials. Ashes, cinders or rags; flammable, poisonous or explosive liquids or gases; oil, grease or any other insoluble material capable of obstructing, damaging or overloading the building drainage or sewer system, or capable of interfering with the normal operation of the sewage treatment process or subsurface wastewater system, shall not be deposited, by any means, into such system.

Al Bass stated Steve Berkowitz wanted to change or private sewage system to or subsurface wastewater system.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 25 – PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 302.2 TO READ AS FOLLOWS:

Industrial wastes. Waste products from manufacturing or industrial operations shall not be introduced into the public sewer or private sewage disposal system until it has been determined by the code official or other authority having jurisdiction that the introduction thereof will not damage the public sewer system or interfere with the functioning of the ~~sewage treatment plant~~ private sewage system.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 26 – PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 701.4 AS FOLLOWS:

Sewage treatment. Sewage or other waste from a plumbing system that is deleterious to surface or subsurface waters shall not be discharged in the ground or into any waterway unless it has first been rendered innocuous through ~~subjection to an approved form of treatment~~ proper treatment approved by the authority having jurisdiction.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 27 – PROPOSAL BY STEVEN BERKOWITZ, ON-SITE WASTEWATER ENGINEERING, TO REVISE SECTION 701.5 AS FOLLOWS:

Damage to drainage system, or public sewer, or private sewage system. Wastes detrimental to the public sewer or detrimental to the functioning of the ~~sewage treatment plant~~ private sewage system shall be treated and disposed of in accordance with Section 1003.

Marshall Knight made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 28 – PROPOSAL BY JOHN HITCH, AIA, TO USE TABLE 403.1 FROM THE INTERNATIONAL PLUMBING CODE.

Aubrey Smith made a motion to use Table 403.1 in the International Plumbing Code (to deny the committee's recommendation). The motion was seconded. The Chairman polled the council members, and there were 11 no votes and 5 yes votes. The motion failed. The Chairman will appoint an ad hoc committee to review fixture counts and make recommendations to the Council. Mr. Bass will chair committee.

ITEM 29 – PROPOSAL BY TIMOTHY J. KILBANE OF SYMMONS INDUSTRIES, INC. TO REVISE SECTION 424.4 AS FOLLOWS:

424.4 Shower valves. Shower and tub-shower combination valves shall be balanced pressure, thermostatic or combination balanced-pressure/thermostatic valves that conform to the requirements of ASSE 1016 or CSA CAN/CSA-B125. Valves shall be equipped with a means to limit the maximum setting of the valve to 120°F (49° C), which shall be field adjusted in accordance with the manufacturer's instructions. Multiple (gang) showers supplied with a single tempered water supply pipe shall have the water supply for such showers controlled by an approved master thermostatic mixing valve. ~~Scald preventative valves are not required in dwelling units with individual water heaters set at 120 degrees F.~~

Marshall Knight made a motion to approve the committee's decision to deny the proposal. The motion was seconded, and the motion carried.

ITEM 30 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE SECTION 304.1 TO REFER TO APPENDIX D – RODENT PROOFING. ADD APPENDIX D TO READ AS FOLLOWS:

304.1 General. Plumbing systems shall be designed and installed in accordance with Sections 304.2 through 304.4 to prevent rodents from entering structures. See Appendix D, Rodent Proofing.

APPENDIX D – RODENT PROOFING

D101.1 General. Buildings or structures and the walls enclosing habitable or occupiable rooms and spaces in which persons live, sleep or work, or in which feed, food or food stuffs are stored, prepared, processed served or sold, shall be constructed in accordance with the provisions of this section.

D101.2 Foundation wall ventilation openings. Foundation wall ventilator openings shall be covered for their height and width with perforated sheet metal plates no less than 0.070 inch (1.8mm) thick, expanded sheet metal plates not less than 0.047 inch (1.2 mm) thick, cast iron grills or grating, extruded aluminum load-bearing vents or with hardware cloth of .035 inch (0.89 mm) wire or heavier. The openings therein shall not exceed ¼ inch (6.4 mm).

D101.3 Foundation and exterior wall sealing. Annular spaces around pipes, electric cables, conduits, or other openings in the walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or non-corrosive metal.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 31 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE SECTION 307.1 TO REFER TO APPENDIX F AND INCLUDE APPENDIX F ON CUTTING, NOTCHING AND DRILLING.

307.1 General. In the process of installing or repairing any part of a plumbing and drainage installation, the finished floors, walls, ceilings, tile work or any other part of the building or premises that must be changed or replaced shall be left in a safe structural condition in accordance with ~~the *International Building Code*~~ Appendix F.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 32 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS
ASSOCIATION, TO DELETE #3 OF SECTION 309.2 AS FOLLOWS:**

309.2 Flood hazard. The following systems and equipment located in a flood-hazard zone (A Zone) or high-hazard zones (V Zone) shall be capable of resisting hydrostatic and hydrodynamic loads and stresses, including the effects of buoyancy, during the occurrence of flooding to the base flood elevation:

~~3. Covers on potable water wells shall be sealed, except where the top of the casing well or pipe sleeve is elevated to at least 1 foot (304.8 mm) above the base flood elevation.~~

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 33 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS
ASSOCIATION, TO ADD TO SECTION 310.1 AS FOLLOWS:**

Toilet rooms shall not open directly into a room used for the preparation of food for service to the public.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 34 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS
ASSOCIATION, TO DELETE EXCEPTION 2 OF SECTION 310.4 AND
REPLACE WITH SECTION 404.4 OF THE NC PLUMBING CODE AS
FOLLOWS:**

310.4 Water closet compartment. Each water closet utilized by the public or employees shall occupy a separate compartment with walls or partitions and a door enclosing the fixtures to ensure privacy.

Exceptions:

2. In toilet rooms in child care facilities in areas used exclusively by children five years of age and under the following is permitted:
 - a. Toilet stall enclosures, toilet stall doors and partitions between toilets may be omitted.
 - b. Doors into toilet rooms may be omitted.
 - c. Walls enclosing toilet rooms may be full height with vision panels, or may be partial height at least 42” high in areas for children four and five years of age and 36” high in areas for children under four years of age.

The toilet rooms shall meet applicable ventilation requirements for toilet areas in the North Carolina Building Code and the North Carolina Mechanical Code.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 35 - PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO MOVE THE EXCEPTION TO SECTION 312.3 TO SECTION 312.2.

Exception: Rough plumbing testing for one and two family dwellings shall be as specified above except the water level shall be a minimum of 3 feet above the highest drainage fitting.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 36 - PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE NOTE (1-4) OF SECTION 403.2.3 AS FOLLOWS:

Note (1-4): ~~For multi-level structures, the unisex restroom may be located on any level.~~ For multi-level structures with an elevator, the unisex restroom may be located on any level. For multi-level structures without an elevator, the unisex restroom shall be located on the first level accessible from finished grade.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 37 - PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE TABLE 712.4.2 TO ADD A FOOTNOTE: MINIMUM VELOCITY SHALL BE 2 FPS.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 38 - PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE SECTION 1107.3 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 ~~for which the primary system indicated in Figure 1106.1a is sized in Tables 1106.2, 1106.3, and 1106.6.~~

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 39 - PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE SECTION 901.2.1 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.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 40 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REPLACE SECTION 912.1 THROUGH 912.3 WITH SECTION 921.1 THROUGH 921.6 OF THE NORTH CAROLINA PLUMBING CODE.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 41 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO ADD A NEW SECTION 909.4 – MULTI-STORY BATHROOM GROUPS USING SECTION 911.3 OF THE NORTH CAROLINA PLUMBING CODE.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 42 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO REVISE THE LAST SENTENCE OF SECTION 706.3 AS FOLLOWS:

Double sanitary tee patterns shall not receive the discharge of back-to-back ~~water closets and~~ fixtures or appliances with pumping action discharge.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 43 – PROPOSAL BY HENRY WEBSTER, PE, PLUMBING INSPECTORS ASSOCIATION, TO ADD FOOTNOTE (E) TO COLUMN HEADING TOTAL FOR A HORIZONTAL BRANCH IN TABLE 710.1(2) AS FOLLOWS:

TOTAL FOR A HORIZONTAL FIXTURE BRANCH^e

e. 50% less for circuit vented fixture branches.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

PLUMBING CODE ADOPTION

Marshall Knight made a motion to approve the International Plumbing Code with the blue pages prepared by the ad hoc committees. The motion is seconded and the motion carried.

MECHANICAL COMMITTEE MEETING - MECHANICAL CODE (ITEM 44 - ITEM 69)

ITEM 44 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD A NEW SECTION 405.2 AS FOLLOWS:

405.2 Fan Shutdown Controls. In Group I-2 and I-3 occupancies each air distribution system shall be equipped with a manual emergency control to stop supply and return air in an emergency. The control device shall be mounted in a readily accessible location and be clearly identified.

Exception: Air handling equipment serving a single space.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 45 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD A NEW SECTION 606.2.4 AS FOLLOWS:

606.2.4 Fan Shutdown by Duct Detector. In Groups I-1, I-2, I-3 and R an air handling unit serving more than one floor shall be automatically shut down on detection of smoke by a duct type detector in the return duct from each floor level located upstream from connection to the common return.

Exception:

1. One and two family dwellings, adult and child daycare in one and two family dwellings, individual apartments, condominiums and townhouses.
2. Smoke detectors are not required in the return air system where the space served by the air distribution system is protected by a system of area smoke detectors in accordance with the *International Building Code*. The area smoke detector system shall comply with Section 606.4

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 46 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD EXCEPTION TO SECTION 706.1 TO READ AS FOLLOWS:

Exception: In Group I-2 forced combustion air shall be prohibited.

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 47 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD EXCEPTION TO SECTION 709.2 TO READ AS FOLLOWS:

Exception: In Group I-2 dampered combustion air openings are prohibited. Combustion air shall be provided by fixed opening(s).

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 48 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO REVISE SECTION 1001.1 AS FOLLOWS:

Exception:

7. Boilers that exceed one of the following are under the jurisdiction of the North Carolina Department of Labor per General Statute Chapter 95 Article 7A. (This exception does not apply to one and two family dwellings and apartment houses of less than six families.)
- (A) A heat input capacity of 200,000 Btuh (58.6kW).
 - (B) A water temperature of 200 degrees F (93.3 C).
 - (C) A nominal water capacity of 120 gal. (454 L).

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 49 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD TO THE END OF THE FIRST SENTENCE IN SECTION 509.5 AS FOLLOWS:

509.5 System interconnection. The actuation of the automatic fire suppressions system shall automatically shut down the fuel or electrical power supply to the cooking appliances and shutdown make up air interior to the hood while maintaining exhaust fan operation. The fuel and electrical power supply reset shall be manual.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 50 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO DELETE SECTION 603.7.4 PLASTIC DUCT AND FITTINGS.

~~**603.7.4 Plastic ducts and fittings.** Plastic ducts shall be constructed of PVC having a minimum pipe stiffness of 8 psi (55 kPa) at 5 percent deflection when tested in accordance with ASTM D241. Plastic duct fittings shall be constructed of either PVC or high density polyethylene. Plastic duct and~~

~~fittings shall be utilized in underground installations only. The maximum design temperature for systems utilizing plastic duct and fittings shall be 150 degrees F (66 degrees C).~~

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 51 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION - DO NOT DELETE SECTION 301.10 - VIBRATION ISOLATION.

301.10 Vibration Isolation. Where vibration isolation of equipment and appliances is employed, an approved means of supplemental restraint shall be used to accomplish the support and restraint.

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried. This section will be deleted in the Fuel Gas Code.

ITEM 52 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 601.2 ON AIR MOVEMENT IN CORRIDORS.

601.2 Air movement in exit access corridors. Exit access corridors shall not serve as supply, return, exhaust, relief or ventilation air ducts or plenums.

Exceptions:

1. Use of a corridor as a source of makeup air for exhaust systems in rooms that open directly onto such corridors, including toilet rooms, bathrooms, dressing rooms, smoking lounges and janitor closets, shall be permitted provided that each such corridor is directly supplied with outdoor air at a rate greater than the rate of makeup air taken from the corridor.
2. Use of the space between the corridor ceiling and the floor or roof structure above as a return air plenum is permitted for one or more of the following conditions:
 - 2.1 The corridor is not required to be of fire-resistance-rated construction.
 - 2.2 The corridor is separated from the plenum by fire-resistance-rated construction.
 - 2.3 The air-handling system serving the corridor is shut down upon activation of the air-handling unit smoke detectors required by the *International Mechanical Code*.
 - 2.4 The air-handling system serving the corridor is shut down upon detection of sprinkler water flow where the building is equipped throughout with an automatic sprinkler system.
 - 2.5 The space between the corridor ceiling and the floor or roof structure above the corridor is used as a component of an approved engineered smoke control system.
3. Where located within a dwelling unit, the use of corridors as return air plenums shall not be prohibited.

4. Where located within tenant spaces of 1,000 square feet (93 m²) or less in area, utilization or corridors as return air plenums is permitted.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 53 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 918.9 REFRIGERATION COILS IN WARM-AIR FURNACES.

918.9 Refrigeration coils in warm-air furnaces. When a cooling coil is located in the supply plenum of a warm-air furnace, the furnace blower shall be rated at not less than 0.5-inch water column (124 Pa) static pressure unless the furnace is listed and labeled for use with a cooling coil. Cooling coils shall not be located upstream from heat exchangers unless listed and labeled for such use. Conversion of existing furnaces for use with cooling coils shall be permitted provided the furnace will operate within the temperature rise specified for the furnace.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 54 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD SECTION 603.16 ON UNDER-FLOOR PLENUMS.

603.16 Under-floor plenums. An under-floor space used as a supply plenum shall conform to the requirements of this section. Fuel gas lines and plumbing waste cleanouts shall not be located within the space.

603.16.1 General. The space shall be cleaned of loose combustible materials and scrap, and shall be tightly enclosed. The ground surface of the space shall be covered with a moisture barrier having a minimum thickness of 4 mils (0.102mm).

603.16.2 Materials. The under-floor space, including the sidewall insulation, shall be formed by materials having flame-spread ratings not greater than 200.

603.16.3 Furnace connections. A duct shall extend from the furnace supply outlet to not less than 6 inches (153 mm) below the combustible framing. This duct shall comply with the provisions of Section 1602.1. A noncombustible receptacle shall be installed below the floor opening into the plenum in accordance with the following requirements:

1. The receptacle shall be securely suspended from the floor members and shall not be more than 18 inches (457 mm) below the floor opening.
2. The area of the receptacle shall extend 3 inches (76 mm) beyond the opening on all sides.
3. The perimeter of the receptacle shall have a vertical lip at least 1 inch (25 mm) high at the open sides.

603.16.4 Access. Access to an under-floor plenum shall be provided through an opening in the floor with minimum dimensions of 18 inches by 24 inches (457 mm by 610 mm).

603.16.5 Furnace controls. The furnace shall be equipped with an automatic control that will start the air-circulating fan when the air in the furnace bonnet reaches a temperature not greater than 150°F (66°C). The furnace shall additionally be equipped with an approved automatic control that limits the outlet air temperature to 200°F (93°C).

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 55 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO DELETE SECTION 306.4.1

~~**306.4.1 Electrical requirements.** A lighting fixture controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the appliance located in accordance with the ICC *Electrical Code*.~~

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 56 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO REVISE TABE 403.3 TO ADD FOOTNOTE B TO ATHLETIC LOCKER ROOMS IN EDUCATION OCCUPANCIES.

In Table 403.3, under Education, re-title Locker Rooms as Physical Education Locker Rooms. Add footnote b and g to physical education locker rooms. Revise Section 403.2.1 Exception 3 to read... spaces to other spaces shall be prohibited. Page 29 table 403.3, under public spaces, revise "Locker and dressing rooms" to athletic locker rooms (delete ~~and dressing~~) Under sports and amusement add Athletic Locker Rooms and add footnote g.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 57 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO REVISE SECTION 307.2.1 AS FOLLOWS:

307.2.1 Condensate Disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. When unable to drain by gravity a condensate pump may be used. Where pumps are used they shall be installed with factory equipped auxiliary high level switch, and shall shut off equipment served upon activation of the auxiliary high level switch. Where damage to any building components will occur as a result of overflow from the pump, the pump shall also be located in

the auxiliary drain pan or in a separate drain pan equipped with a separate drain line or water level detection device. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 58 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 927 ON DUCT HEATERS.

927.1 General. Electric duct heaters shall be installed in accordance with the manufacturer's installation instructions and the North Carolina Electrical Code. Electric furnaces shall be tested in accordance with UL 1995.

927.2 Installation. Electric duct heaters shall be installed so that they will not create a fire hazard. Class I ducts, duct coverings and linings shall be interrupted at each heater to provide the clearances specified in the manufacturer's installation instructions. Such interruptions are not required for duct heaters listed and labeled for zero clearance to combustible materials. Insulation installed in the immediate area of each heater shall be classified for the maximum temperature produced on the duct surface.

927.3 Installation with heat pumps and air conditioners. Duct heaters located within 4 feet (1219 mm) of a heat pump or air conditioner shall be listed and labeled for such installations. The heat pump or air conditioner shall additionally be listed and labeled for such duct heater installations.

927.4 Access. Duct heaters shall be accessible for servicing, and clearance shall be maintained to permit adjustment, servicing and replacement of controls and heating elements.

927.5 Fan interlock. The fan circuit shall be provided with an interlock to prevent heater operation when the fan is not operating.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 59 - PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 926 ON RADIANT HEATING SYSTEMS.

926.1 General. Electric radiant heating systems shall be installed in accordance with the manufacturer's installation instructions and the North Carolina Electrical Code.

926.2 Clearances. Clearances for radiant heating panels or elements to any wiring, outlet boxes and junction boxes used for installing electrical devices or mounting lighting fixtures shall comply with the North Carolina Electrical Code.

926.3 Installation of radiant panels. Radiant panels installed on wood framing shall conform to the following requirements:

1. Heating panels shall be installed parallel to framing members and secured to the surface of framing members or mounted between framing members.

2. Panels shall be nailed or stapled only through the unheated portions provided for this purpose and shall not be fastened at any point closer than ¼ inch (6.4 mm) from an element.
3. Unless listed and labeled for field cutting, heating panels shall be installed as complete units.

926.4 Installation in concrete or masonry. Radiant heating systems installed in concrete or masonry shall conform to the following requirements:

1. Radiant heating systems shall be identified as being suitable for the installation, and shall be secured in place, as specified in the manufacturer's installation instructions.
2. Radiant heating panels or radiant heating panel sets shall not be installed where they bridge expansion joints unless protected from expansion and contraction.

926.5 Gypsum panels. Where radiant heating systems are used on gypsum assemblies, operating temperatures shall not exceed 125°F (52° C).

926.6 Finish surfaces. Finish materials installed over radiant heating panels or systems shall be installed in accordance with the manufacturer's installation instructions. Surfaces shall be secured so that nails or other fastenings do not pierce the radiant heating elements.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 60 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 925 BASEBOARD CONVECTORS.

925.1 Baseboard convectors. Electric baseboard convectors shall be installed in accordance with the manufacturer's installation instruction and the North Carolina Electrical Code.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 61 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO DELETE SECTION 306.3.1.

~~**306.3.1 Electrical requirements.** A lighting fixture controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the appliance location in accordance with the *ICC Electrical Code*.~~

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 62 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 917.4 ON THE INSTALLTION OF MICROWAVE OVENS.

917.4 Installation of microwave oven over a cooking appliance. The installation of a listed and labeled cooking appliance or microwave oven over a listed and labeled cooking appliance shall conform to the terms of the upper appliance's listing and label and the manufacturer's installation instructions.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 63 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD THE FOLLOWING TO SECTION 312:

For one and two family dwellings and townhouses, heating and cooling equipment shall be allowed to be sized based on building loads calculated in accordance with ACCA Manual J.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 64 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 918.10 ON RETURN AIR INTAKE (NON-ENGINEERED SYSTEMS) AS FOLLOWS:

918.10 Return air intake (non-engineered systems). If only one central return air grille is installed, it shall be of proper size. The size shall be sufficient to return a volume of air compatible with the CFM requirements and temperature rise limitations specified by the equipment manufacturer. The face velocity of return air grilles shall not exceed 450 fpm. At least one separate return shall be installed on each level of a multi-level structure. For split-level and split-foyer structures one return may serve more than one level if located near the levels served and the total area of the levels does not exceed 1600 sq. ft. Return air grilles shall not be located in bathrooms. The return air from one residential living unit shall not be mixed with return air from other living units.
In buildings with 1600 sq. ft. or less of conditioned area, a central return is permitted. When the building contains more than 1600 sq. ft. of conditioned area, additional returns shall be provided. Each return shall not serve more than 1600 sq. ft. of area and shall be located in the area it serves. Return air may travel through the living space to the return air intake if there are no restrictions, such as solid doors, to the air movement. When panned joists are used for return air, the structural integrity shall be maintained. Air capacity for joists, 16 inches on center shall be a maximum of 375 CFM for 8-inch joists and 525 CFM for 10-inch joists. Wiring located in spaces used for return air ducts shall comply with the North Carolina Electrical Code.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 65 – PROPOSAL BY THE NC MECHANIAL INSPECTORS ASSOCIATION TO ADD TO THE END OF SECTION 604.1 AS FOLLOWS:

Replacement or addition of cooling equipment to existing ductwork located in an attic shall require the ductwork to be insulated. Replacement of heating and/or the addition of cooling equipment in a crawlspace shall not require the existing ductwork to be insulated.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 66 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 603.9.1 METAL DUCTWORK IN ONE AND TWO FAMILY DWELLINGS.

603.9.1 For one and two family dwellings and townhouses. Metal ducts shall be securely supported. Where hung, or suspended, metal straps a minimum of 1 inch in width and equivalent to or heavier gauge than the duct being supported shall be used. Straps, when used shall be at maximum 64-inch intervals and shall be securely attached to the building structure. Straps shall be attached to the duct at a minimum of 2 points with screws or rivets. Hanger systems shall comply with this section or other approved means. Nonmetallic or listed duct systems shall be supported in accordance with the manufacturer's installation instructions. All equipment shall be supported independently of the duct system except when the duct is used as a support base. When used as a support base, the duct shall be of sufficient strength and designed to support the weight of the unit. Listed bases shall be installed in accordance with the manufacturer's installation instructions.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 67 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 601.4 TITLED STANDARDS.

601.4 Standards. Ducts shall be constructed, braced, reinforced and installed to provide structural strength and durability. Ducts and duct systems complying with the requirements of the following applicable standards shall be deemed as meeting the intent of this code:

1. SMACNA Fibrous Glass Duct Construction Standard and SMACNA HVAC Duct Construction Standards, Metal and Flexible or NAIMA Fibrous Glass Duct Construction Standards.
2. ASHRAE Handbook HVAC Systems and Equipment.
3. UL 181.
4. UL 181A, Part I, Part II, and Part III.
5. UL 181B, Part I and Part II.
6. ADC Flexible Duct Performance and Installation Standards.

7. ACCA Manual D – Duct Design for Residential Winter and Summer Air Conditioning, and ACCA Manual Q – Commercial Low Pressure, Low Velocity Duct Systems.

Bob Pierce made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 68 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO ADD THE FOLLOWING TO THE END OF SECTION 603.1:

For one and two family dwellings and townhouses, supply and return ducts shall be allowed to be sized according to ACCA Manual D or SMACNA Installation Standards for Residential Heating and Air Conditioning systems.

Greg Mulholland made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 69 – PROPOSAL BY THE NC MECHANICAL INSPECTORS ASSOCIATION TO INCLUDE RODENT PROOFING IN THE APPENDIX RATHER THAN REFER TO THE BUILDING CODE TO READ AS FOLLOWS:

RODENT PROOFING

101.1 General. Buildings or structures and the walls enclosing habitable or occupiable rooms and spaces in which persons live, sleep or work, or in which feed, food or food stuffs are stored, prepared, processed served or sold, shall be constructed in accordance with the provisions of this section.

101.2 Foundation wall ventilation openings. Foundation wall ventilator openings shall be covered for their height and width with perforated sheet metal plates no less than 0.070 inch (1.8 mm) thick, expanded sheet metal plates not less than 0.047 inch (1.2 mm) thick, cast iron grills or grating, extruded aluminum load-bearing vents or with hardware cloth of 0.035 inch (0.89 mm) wire or heavier. The openings therein shall not exceed ¼ inch (6.4 mm)

101.3 Foundation and exterior wall sealing. Annular spaces around pipes, electric cables, conduits, or other openings in the walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or non-corrosive metal.

Greg Mulholland made a motion to approve the proposal. The motion was seconded, and the motion carried.

OTHER MECHANICAL ITEM

Henry Webster, DOI staff, asked the Council to make an editorial change to Section 403.3.1.1. The change adds the word public before the word school.

Al Bass made a motion to approve the editorial change. The motion was seconded and the motion carried.

MECHANICAL CODE ADOPTION

Marshall Knight made a motion to approve the International Mechanical Code with the blue pages presented by the ad hoc committees. The motion was seconded and the motion carried.

MECHANICAL COMMITTEE MEETING - FUEL GAS CODE (ITEMS 70 - 72)

ITEM 70 - PROPOSAL BY THE NORTH CAROLINA MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 617.8 AS FOLLOWS:

617.8 Refrigeration coils in warm-air furnaces. When a cooling coil is located in the supply plenum of a warm-air furnace, the furnace blower shall be rated at not less than 0.5-inch water column (124 Pa) static pressure unless the furnace is listed and labeled for use with a cooling coil. Cooling coils shall not be located upstream from heat exchangers unless listed and labeled for such use. Conversion of existing furnaces for use with cooling coils shall be permitted provided the furnace will operate within the temperature rise specified for the furnace.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 71 - PROPOSAL BY THE NORTH CAROLINA MECHANICAL INSPECTORS ASSOCIATION TO ADD NEW SECTION 617.9 AS FOLLOWS:

617.9 Return air intake (non-engineered systems). If only one central return air grille is installed, it shall be of proper size. The size shall be sufficient to return a volume of air compatible with CFM requirements and temperature rise limitations specified by the equipment manufacturer. The face velocity of return air grilles shall not exceed 450 fpm. At least one separate return shall be installed on each level of a multi-level structure. For split-level and split-foyer structures one return may serve more than one level if located near the levels served and the total area of the levels does not exceed 1600 sq. ft. Return air grilles shall not be located in bathrooms. The return air from one residential living unit shall not be mixed with return air from other living units.

In buildings with 1600 sq. ft. or less of conditioned area, a central return is permitted. When the building contains more than 1600 sq. ft. of conditioned area, additional returns shall be provided. Each return shall not serve more than 1600 sq. ft. of area and shall be located in the area it serves. Return air may travel through the living space to the return air intake if there are no restrictions, such as solid doors, to the air movement. When panned joists are used for return air, the structural integrity shall be maintained. Air capacity for joists, 16 inches on center shall be a maximum of 375 CFM for 8-inch joists and 525 CFM for 10-inch joists. Wiring located in spaces used for return air ducts shall comply with the North Carolina Electrical Code.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 72 - PROPOSAL BY HENRY WEBSTER, PE, DOI, TO INCLUDE THE EXCEPTION TO SECTION 304.15 AS SHOWN IN THE IFGC AND AS FOLLOWS

Exception: Within dwelling units, unobstructed stud and joist spaces shall not be prohibited from conveying combustion air, provided that not more than one required fireblock is removed.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

FUEL GAS CODE ADOPTION

Marshall Knight made a motion to accept the International Fuel Gas Code with blue pages prepared by the ad hoc committee. The motion was seconded and the motion carried.

GENERAL CONSTRUCTION COMMITTEE MEETING (ITEM 73 - ITEM 100)

ITEM 73 - PROPOSAL BY JOHN WIGGINS, PE, TO REVISE SECTION 705.3 TO READ AS FOLLOWS:

705.3 Materials. Firewalls shall be of any approved noncombustible materials.

Exception: Buildings of Type V construction.

William Bullock made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 74 - PROPOSAL BY BARRY GUPTON, PE, DEPARTMENT OF INSURANCE TO REVISE SECTION 705.3 TO READ AS FOLLOWS:

705.3 Materials. Firewalls shall be constructed of masonry, ~~or~~ concrete, or any approved non-combustible material. The fire resistance of concrete or masonry firewalls shall be calculated in accordance with Section 720 or determined by test in accordance with ASTM E-119. All other firewalls shall be tested in accordance with ASTM E-119. Firewalls tested in accordance with ASTM E-119 shall be conducted using the alternative hose stream test procedure described in section 11.3 of ASTM E-119.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 75 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP TABLE 1608.2 - GROUND SNOW LOADS FOR ALASKAN LOCATIONS IN THE CODE.

Al Bass made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 76 - PROPOSAL BY JOHN WIGGINS, PE, TO KEEP THE IBC FIGURE 1609 AND NOT INCLUDE A MAP FOR NORTH CAROLINA.

Al Bass made a motion to approve the proposal. The motion included enlarging the map in the IBC to show North Carolina more clearly. The motion was seconded, and the motion carried.

ITEM 77 - PROPOSAL BY JOHN WIGGINS, PE, TO REVISE SECTION 1612.4 TO DELETE THE WORDS OR COMPARABLE ENGINEERING STANDARDS.

Al Bass made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 78 - PROPOSAL BY JOHN WIGGINS, PE, TO REVISE SECTION 3108.4 TO DELETE THE WORDS OR OTHER ACCEPTED ENGINEERING STANDARDS.

Al Bass made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 79 - PROPOSAL BY JOHN WIGGINS, PE, TO INCLUDE #4 OF SECTION 1003.3.1.4 IN THE CODE AS FOLLOWS:

4. Exterior decks, patios, or balconies that are part of Type B dwelling units and have impervious surfaces, and that are not more than 4 inches (102 mm) below the finished floor level of the adjacent interior space of the dwelling unit.

Aubrey Smith made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 80 - PROPOSAL BY STEVE SKALKO, PE, OF THE PORTLAND CEMENT ASSOCIATION TO DELETE SECTION 403.3.1 AS FOLLOWS:

~~**403.3.1 Type of Construction.** The following reductions in the minimum construction type allowed in Table 601 shall be allowed as provided in Section 403.3:~~

- ~~1. Type IA construction shall be allowed to be reduced to Type IB.~~
- ~~2. In other than Groups F-1, M and S-1, Type IB construction shall be permitted to be reduced to Type IIA.~~

Aubrey Smith made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 81 - PROPOSAL BY DIVISION OF FACILITY SERVICES DELETE THE WORDS OVER 100 SQUARE FEET FROM TABLE 302.1.1.

Room or area	Separation
<u>Group I-2 waste and linen Collection room</u>	<u>1 hour</u>

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 82 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD NEW ITEMS TO TABLE 302.1.1 AS FOLLOWS:

Room or area	Separation
<u>Group I-2 rooms or spaces that contain fuel-fired heating equipment</u>	<u>smoke resistant construction and doors</u>
<u>Group I-2 laundries equal to or less than 100 square feet and commercial kitchens in Group I-2</u>	<u>smoke resistant construction and doors</u>

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 83 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD TO THE EXCEPTION TO SECTION 403.10.1.1 AS FOLLOWS:

Exception: In other than Group I-2, where the system is supplied with pipeline natural gas and is approved.

William Bullock made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 84 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD SECTION 407.5.1 AS FOLLOWS:

407.5.1 When dry pipe sprinkler systems are installed, patient sleeping rooms shall be protected by smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each patient room and shall provide an audible and visual alarm at the nurses' station attending each room.

Brad Lail made a motion to deny the committee recommendation. The motion was seconded, and the motion carried.

Richard Strickland made a motion to substitute Section 407.5.1 as follows:

407.5.1 When dry pipe sprinkler systems are installed, upon activation, a full flow of water shall be delivered to the most remote point of the system in no more than 60 seconds.

The motion was seconded, and the motion carried.

ITEM 85 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE SECTION 407.6 AS FOLLOWS:

407.6 Corridors in ~~nursing homes (both intermediate care and skilled nursing facilities), detoxification facilities~~ Group I-2 and spaces permitted to be open to corridors by Section 407.2 shall be protected by an automatic fire detection system installed in accordance with Section 907.

Aubrey Smith made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 86 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE EXCEPTIONS TO SECTION 407.6 AS FOLLOWS:

1. Corridor smoke detection is not required in smoke compartments that contain patient sleeping rooms where patient sleeping rooms are provided with smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each patient room and shall provide an audible and visual alarm at the nursing station attending each room.
2. Corridor smoke detection is not required in smoke compartments that contain patient sleeping rooms where patient room doors are equipped with automatic door-closing devices with integral smoke detectors on the room sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 87 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD NEW SECTION 421 AS SHOWN IN ATTACHMENT #1

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 88 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD SENTENCE TO SECTION 709.5 TO READ AS FOLLOWS:

In Group I, openings in smoke barriers shall be limited to habitable and circulation spaces.

William Bullock made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 89 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD EXCEPTION #5 TO SECTION 1003.3.1.8 AS FOLLOWS:

5. Door-locking arrangements shall be permitted in Group I-2 where the clinical or security needs of the patients require specialized locking measures for their safety or the safety of others, provided keys are carried at all times by all staff that are responsible for the evacuation of the occupants within the locked building or locked unit(s).

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 90 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO ADD NEW SECTION 1003.3.1.8.2.1 TO READ SHOWN IN ATTACHMENT 2.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 91 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE EXCEPTION #6 OF SECTION 1004.3.2.2 AS FOLLOWS:

This item was withdrawn.

ITEM 92 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE EXCEPTIONS #2, 5 AND 6 OF SECTION 1004.3.2.2 AS FOLLOWS:

2.Thirty-six inches (914 mm) – In other than Groups I-1, I-2 and I-3 with a required occupant capacity of 50 or less.

5.Seventy-two inches (1829 mm) – In corridors serving surgical Group I, health-care centers for ambulatory patients receiving outpatient medical care which causes the patients to be not capable of self-preservation and resident areas of Group I-1 and I-2.

6.Ninety-six inches (2438 mm) –In Group I-2 in inpatient areas and in areas where required for bed movement.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 93 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE TABLE 1004.3.2.1 TO ADD FOOTNOTE F FOR OCCUPANCY R AND ADD FOOTNOTE F AS FOLLOWS:

- f. For requirements for Residential Care Facilities see Section 421.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 94 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO CHANGE GROUP I TO GROUP I-4 UNDER COLUMN HEADING OCCUPANCY FROM TABLE 1005.2.2.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 95 - PROPOSAL BY KEN SZYMANSKI OF THE APARTMENT ASSOCIATION OF NORTH CAROLINA TO ADD EXCEPTION #5 TO SECTION 1005.3.6.5 AS FOLLOWS:

5. Separation from the interior of the building is not required for exterior stairways located in buildings of Group R-2 where the building is equipped with a fire protection system meeting 903.3.1.2 protecting all dwelling units, stairway, and exitway.

This item was heard with Item 149. Richard Strickland made a motion to approve Item 95 and Item 149 as amended. The motion was seconded, and the motion carried.

ITEM 96 - PROPOSAL BY LAUREL WRIGHT, NCDOT, TO DELETE FOOTNOTE E OF TABLE 1004.3.2.1.

- e. Exit access corridors are not required to be rated on any single tenant floor or in any single tenant space, when 1 hour rated tenant demising walls are provided between all tenant spaces and 1 hour rated floor/ceiling assemblies are provided in multi-story buildings.

Bob Pierce made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 97 - PROPOSAL BY LAUREL WRIGHT, NCDOT TO REVISE THE NORTH CAROLINA ACCESSIBILITY CODE FOR EDITORIAL CHANGES, CORRELATIONS AND STATUTE CHANGES.

Greg Mulholland made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 98 – PROPOSAL BY LAUREL WRIGHT, NCDOT, TO CHANGE IN DIMENSIONS OF UNISEX TOILETS TO COMPLY WITH ADAAG.

During the Plumbing Code Hearings, it was determined that the dimensions shown in Volume 1-C for unisex toilets do not comply with the requirements for ADAAG. The staff contacted DOJ and will make the necessary revisions. Staff was directed to submit a proposal that corrected the discrepancies, after checking with the US Department of Justice to verify that this change is necessary for certification.

Greg Mulholland made a motion to approve the proposal, with the effective date June 12, 2001. The motion was seconded, and the motion carried. There were 9 yes votes and 6 no votes.

Later in the meeting, Dennis Norris made a motion that the Council reconsider Item 98. The motion was seconded and the motion carried.

Grover Sawyer noted that Aubrey Smith had commented before the vote, that he was unaware that the proposal included a provision to take Appendix E, Part III and Part IV, out of the Appendix and include it in the body of the Code. Mr. Sawyer stated that was an error and would like to delete this from the proposal.

Dan Tingen made a motion to make the changes proposed by Grover Sawyer. The motion was seconded, and the motion carried.

ITEM 99 – PROPOSAL BY LAUREL WRIGHT, NCDOT, TO REVISE SKETCH FOR SECTION 6.3.2.2.1(2) OF VOLUME 1-C TO DELETE THE STAIR ENCLOSURE AND DOOR FOR CLARITY.

Greg Mulholland made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 100 – PROPOSAL BY NANETTE MCELMAN, PE TO LEAVE THE WIND-BORNE DEBRIS REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE.

Nanette McElman, with IBHS, spoke in favor of the wind-borne debris provisions of the IBC. Ms. McElman stated without wind-borne debris protection the envelope can be breached easily and it can result in damage due to wind and water invading the building. Bob Sheets, formerly Director of the National Hurricane Center, also spoke in favor of the wind-borne debris provisions. Mr. Sheets stated the winds during Andrew were clocked at 186 mph. Mr. Sheets stated that wood frame New England style homes were being built in south Florida immediately before Andrew. Previously, no wood frame homes were built in these regions. Damage to these wood frame structures accounted for most of the damage from Andrew.

Lawrence Twisdale, PE with Applied Research also spoke in favor of the wind-borne debris provisions. Mr. Twisdale stated his company has been studying hurricanes.

Mr. Twisdale stated that the provisions in ASCE 7 grew out of field observations. He stated that asphalt shingles break loose from the house , blow away and break the windows of neighboring houses. Keith Lessner, with the Building Code Coalition, Brett Martin with the Chubb Group Insurance Agencies, Jeff Fike, formerly with DuPont and Dascheil Propes, DOI, all spoke in favor of the wind-borne debris provisions.

Jay Graham, New Hanover County Inspection Department, stated he has been through six hurricanes. Mr. Graham proposed that the Council take some sort of action about wind-borne debris, but not as extensive as the 120 mph zone. Second, the Council put together a committee and bring the Council a proposal that works for North Carolina. Mr. Graham stated that the insurance losses in his county were not from wind-borne debris. There was not much wind damage in New Hanover County. Mr. Graham stated wind-borne debris damage is a fact and should be dealt with.

David Nance, Carteret County Homebuilders, and Mark Martin, spoke against the proposal.

Aubrey Smith made a motion that a study committee would be formed to study the wind-borne debris provisions and bring recommendations back to the Council. The motion was seconded and the motion carried. There were 3 no votes and 12 yes votes.

Barry Gardner stated there was a request to reconsider Item 100. Tom Avery made a motion to reconsider Item 100. Mr. Avery stated he is against an ad hoc committee to study wind-borne debris. The motion was seconded, and the motion carried. There were 11 yes votes and 4 no votes.

Mr. Avery made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 100A - PROPOSAL BY NANETTE MCELMAN, PE, TO LEAVE THE WIND-BORNE DEBRIS REQUIREMENTS IN THE INTERNATIONAL RESIDENTIAL CODE.

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded and the motion carried. There were 12 yes votes and 3 no votes.

BUILDING CODE ADOPTION

Brad Lail made a motion to approve the International Building Code and the blue pages prepared by the ad hoc committee. The motion was seconded, and the motion carried.

ENERGY COMMITTEE (ITEM 101 AND ITEM 102)

ITEM 101 - PROPOSAL BY BILLY HINTON, PE, DOI STAFF, TO DELETE SECTION 602.2.

602.2 Maximum solar heat gain coefficient for fenestration products. ~~In locations with heating degree days (HDD) less than 3,400, the area weighted average solar heat gain coefficient (SHGC) for glazed fenestration installed in the building envelope shall not exceed 0.40.~~ Deleted.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 102 - PROPOSAL BY BILLY HINTON, PE, DOI STAFF, TO DELETE SECTION 502.1.5

502.1.5 Fenestration solar heat gain coefficient. ~~In locations with heating degree days (HDD) less than 3,500, the combined solar heat gain coefficient (the area weighted average) of all glazed fenestration products (including the effects of any permanent exterior solar shading devices) in the building shall not exceed 0.4.~~ Deleted.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried.

ENERGY CODE ADOPTION

Marshal Knight made a motion to accept the International Energy Code with blue pages prepared by the ad hoc committee. The motion was seconded and the motion carried.

RESIDENTIAL COMMITTEE (ITEM 103 - ITEM 111)

ITEM 103 - PROPOSAL FROM JOHN WIGGINS, PE - DO NOT ADOPT THE PROPOSED RESIDENTIAL CODE AND KEEP THE CURRENT RESIDENTIAL CODE.

Marshall Knight made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 104 - PROPOSAL BY JOHN WIGGINS, PE, TO - CHANGE 2,000 PSF TO 1,500 PSF (ONLY) IN TABLE R401.1.

Dan Tingen made a motion to approve the committee's recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 105 – PROPOSAL BY JOHN WIGGINS, PE - TABLE R503.2.1(1) – LEAVE AS IS IN THE INTERNATIONAL RESIDENTIAL CODE.

Dan Tingen made a motion to approve the committee’s recommendation to deny the proposal. The motion was seconded, and the motion carried.

ITEM 106 – PROPOSAL BY JOHN WIGGINS, PE - TABLE R602.3(1) – LEAVE AS IS IN THE INTERNATIONAL RESIDENTIAL CODE

Dan Tingen made a motion to approve. The motion was seconded, and the motion carried.

ITEM 107 – PROPOSAL BY JOHN WIGGINS, PE, DO NOT DELETE SECTION R703.8(2)

2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.

Dan Tingen made a motion to approve. The motion was seconded, and the motion carried.

ITEM 108 – PROPOSAL BY THE CAPE FEAR/WILMINGTON HOME BUILDERS ASSOCIATION TO REVISE THE WIND ZONES FOR NEW HANOVER COUNTY AND BRUNSWICK COUNTY

The proposal creates new wind zones defined by Highway 17. In New Hanover and Brunswick Counties, the design wind speed is 120 mph north of Highway 17. The design wind speed is 130 mph south of Highway 17. Bald Head Island remains with a design wind speed of 140 mph.

Marshall made a motion to keep Chapter 40 as is, keeping the “E-zones” and using the map prepared by the ad hoc committee. The motion was seconded, and the motion failed.

Dan Tingen made a motion to approve the work of the ad hoc committee and deny the proposal. The motion was seconded, and the motion was denied. Chairman polled the council members, and there were 10 no votes and 5 yes votes.

Dan Tingen made a motion to approve the proposal. The motion was seconded, and the motion carried. There were 8 yes votes and 7 no votes.

ITEM 109 – PROPOSAL BY THE CARTERET COUNTY HOME BUILDERS ASSOCIATION TO REVISE THE WIND ZONES FOR CARTERET COUNTY

Dan Tingen made a motion to approve. The motion was seconded, and the motion was denied.

ITEM 110 – PROPOSAL BY THE PENDER COUNTY HOME BUILDERS ASSOCIATION TO REVISE THE WIND ZONES FOR PENDER COUNTY

The Pender County proposal divides Pender County into three wind zones. The design wind speed east of the Intercoastal Waterway is 130 mph. The township of Topsail Beach is 120 mph, and the rest of the county is 110 mph.

Al Bass made a motion to approve the proposal. The motion was seconded, and the motion carried. There were 8 yes votes and 7 no votes.

ITEM 110A – PROPOSAL BY PAUL KAHL TO DELETE EXCEPTION #3 OF SECTION 312.1 AS FOLLOWS:

~~3. Exterior storm and screen doors are exempt from the requirements for landings.~~

Jack Neel made a motion to approve the proposal. The motion was seconded, and the motion was denied. There were 6 yes votes and 7 no votes.

RESIDENTIAL CODE ADOPTION

Marshall Knight made a motion to accept the International Residential Code and the blue pages prepared by the ad hoc committee. The motion was seconded and the motion carried.

FIRE PREVENTION COMMITTEE MEETING (ITEM 111 – ITEM 153)

ITEM 111 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE REVISION COMMITTEE TO REVISE SECTION 306 TITLE TO READ MOTION PICTURE FILMS AND SCREENS

**Section 306
MOTION PICTURE FILMS AND SCREENS**

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 112 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE REVISION COMMITTEE TO DELETE SECTION 306.3

~~**306.3 Motion Picture Screens.** The flame spread index of screens on which motion pictures are projected shall not exceed 75 when tested in accordance with NFPA 255.~~

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 113 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE EXCEPTION #2 OF SECTION
307.5 TO READ AS FOLLOWS:**

2. Where buildings, balconies, and decks are protected by an approved automatic sprinkler system.

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 114 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 311.3 TO READ AS
FOLLOWS:**

311.3 Removal of ~~waste-combustibles~~. Persons owning, or in charge or control of, a vacant building or portion thereof, shall remove therefrom all accumulations of combustible materials, flammable or combustible.....

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 115 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE REVISE SECTION 311.4 AS FOLLOWS:**

311.4 Removal of hazardous materials. Persons owning or having charge or control of a vacant building ~~shall remove all combustible and hazardous materials, and submit a facility closure plan in accordance with Section 407.7 containing hazardous materials regulated by Chapter 27 shall comply with the facility closure requirements of 2701.5.~~

Exception: ~~This section shall not apply to materials in heating, air conditioning, and refrigeration systems installed in accordance with Chapter 6 or exempted therein.~~

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 116 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD SECTION 606.15 TO READ:**

606.15 Electrical Equipment. Where refrigerants of Groups A2, A3, B2, and B3, as defined in the North Carolina Mechanical Code, are used, refrigeration machinery rooms shall conform to the Class I, Division 2 hazardous location classification requirements of the North Carolina Electrical Code.

Exception: Ammonia machinery rooms that are provided with ventilation in accordance with Section 1106.3 of the North Carolina Mechanical Code.

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 117 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD NEW SECTION 607.3 AS FOLLOWS:

607.3 Elevator Keys. Keys for the elevator car doors and fireman service keys shall be kept in an approved location for immediate use by the fire department.

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 118 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTIONS 903.2.1.1, 903.2.1.2, 903.2.1.3, 903.2.1.4, 903.2.3, 903.2.6, 903.2.10 OF THE NORTH CAROLINA FIRE CODE AS SHOWN:

903.2.1.1 Group A-1. An automatic sprinkler system shall be provided ~~throughout a fire area containing a~~ for Group A-1 ~~occupancy occupancies~~ where one of the following conditions exists:

903.2.1.2 Group A-2. An automatic sprinkler system shall be provided ~~throughout a fire area containing a~~ for Group A-2 ~~occupancy occupancies~~ where one of the following conditions exists:

903.2.1.3 Group A-3. An automatic sprinkler system shall be provided ~~throughout a fire area containing a~~ for Group A-3 ~~occupancy occupancies~~ where one of the following conditions exists:

903.2.1.4 Group A-4. An automatic sprinkler system shall be provided ~~throughout a fire area containing a~~ for Group A-4 ~~occupancy occupancies~~ where one of the following conditions exists:

903.2.3 Group F-1. An automatic sprinkler system shall be provided throughout all buildings ~~where the fire area containing a Group F-1 Occupancy complying with one of the following~~ where one of the following conditions exist:

1. Where a Group F-1 fire area exceeds 12,000 square feet (1115 m²); ~~or~~
2. Where a Group F-1 fire area is located more than three stories in height above grade; or
3. Where the combined fire area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet (2230 m²).

903.2.6 Group M. An automatic sprinkler system shall be provided throughout buildings ~~where the fire area containing a Group M Occupancy complying with one of the following~~ where one of the following conditions exist:

1. Where a Group M fire area exceeds 12,000 square feet (1115 m²); ~~or~~

2. Where a Group M fire area is located more than three stories in height above grade; or
3. Where the combined ~~fire~~ fire area of all Group M fire areas on all floors, including mezzanines exceeds 24,000 square feet (2230 m²).

903.2.10 Group S-1. An automatic sprinkler system shall be provided throughout all buildings where the fire area containing a Group S-1 Occupancy complying with one of the following where one of the following conditions exist:

1. Where a Group S-1 fire area exceeds 12,000 square feet (1115 m²); or
2. Where a Group S-1 fire area is located more than three stories in height above grade; or
3. Where the combined fire area of all Group S-1 fire areas on all floors, including any mezzanines exceeds 24,000 square feet (2230 m²).

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 118A – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE REVISION COMMITTEE TO REVISE SECTIONS 903.2.1.1, 903.2.1.2, 903.2.1.3, 903.2.1.4, 903.2.3, 903.2.6, 903.2.10 OF THE NORTH CAROLINA BUILDING CODE AS SHOWN IN ITEM 118.

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 119 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE REVISION COMMITTEE TO REPLACE DEFINITION OF CURTAIN BOARD WITH THE FOLLOWING:

Draft Curtain Board See section 2302.1

Richard Strickland made a motion to approve. The motion was seconded, and the motion carried.

ITEM 120 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE REVISION COMMITTEE TO REVISE CHAPTER 2, SECTION 910.1, 910.3, 910.3.3, 910.3.4, TABLE 910.3, 2302.1, 2306.2 TO REPLACE THE WORDS CURTAIN BOARDS WITH DRAFT CURTAINS AS FOLLOWS:

Chapter 2 – Draft Curtain Board—See section 2302.1

910.1 General. Where required by this code or otherwise installed, smoke and heat vents, or mechanical smoke exhaust systems, and draft curtains boards shall conform to the requirements of this section.

910.3 Design and installation. The design and installation of smoke and heat vents and draft curtains ~~boards~~ shall be specified in this section and Table 910.3.

910.3.3 Vent locations. Smoke and heat vents shall be located 20 feet (6096 mm) or more from ~~lines of adjacent~~ property lines ~~properties~~ and fire walls and 10 feet (3048 mm) or more from fire barrier walls. Vents shall be uniformly located within the roof area above high-piled storage areas, with consideration given to roof pitch, draft curtain ~~board~~ location, sprinkler ~~head~~ location and structural members.

910.3.4 Draft curtains ~~boards~~. Where required, draft curtains shall be provided in accordance with this section.

Exception: Where areas of buildings are equipped with early suppression-fast response (ESFR) sprinkler systems, draft curtains shall not be provided within these areas. Draft curtains shall only be provided at the separation between the ESFR sprinklers and the conventional sprinklers.

910.3.4.1 Construction. Draft curtains shall be constructed of sheet metal, lath and plaster, gypsum board, or other approved materials which provide equivalent performance to resist the passage of smoke. Joints and connection shall be smoke tight.

910.3.4.2 Location and depth. The location and minimum depth of draft curtains ~~boards~~ shall be in accordance with Table 910.3.

**Table 910.3
Requirements for Draft Curtains ~~Boards~~ and Smoke and Heat Vents ~~Venting~~**

Minimum <u>Draft Curtain</u> Board Depth (feet)	Maximum Area Formed by <u>Draft Curtains</u> Boards (square feet)^b	Maximum Distance to Vents from Wall or <u>Draft Curtains</u> Boards^b (feet)
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- a. Requirements for rack storage heights in excess of those indicated shall be in accordance with Chapter 23. For solid-piled storage heights in excess of those indicated, an approved engineered design shall be used.
- b. ~~When areas of buildings are equipped with early suppression fast response (ESFR) sprinklers, the curtain boards within these areas shall be located only at the separation between the ESFT and the conventional sprinkler system.~~
- c. The distance specified is the maximum distance from any vent in a particular draft curtained area to walls or draft curtains ~~boards~~ that which form the perimeter of the draft curtained area.

2302.1 Draft Curtain Board. A structure arranged to limit the spread of smoke and heat along the underside of the ceiling or roof. ~~Curtain boards are sometimes referred to as draft curtains.~~

2306.2 Extent and Type of Protection. Where required by Table 2306.2 fire-detection systems, smoke and heat removal draft curtains ~~boards~~, small hose

valves and stations, and automatic sprinkler design densities shall extend the lesser of 15 feet (4572 mm) beyond the high piled storage area or to a permanent partition.

Table 2603.2

i. Not required when storage areas are protected by early-suppression fast response (ESFR) sprinklers are installed in accordance with NFPA 13 or NFPA 230.

2306.7 Smoke and heat removal. Where smoke and heat removal is required by Table 2306.2, smoke and heat vents shall be provided in accordance with Section 910. Where draft curtains ~~boards~~ are required by Table 2306.2, they shall be provided in accordance with Section 910.3.4.

Richard Strickland made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 120A – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 910.3.3, 910.3.4,
TABLE 910.3 TO REPLACE THE WORDS CURTAIN BOARDS WITH
DRAFT CURTAINS IN THE NORTH CAROLINA BUILDING CODE AS
SHOWN IN ITEM 120.**

Richard Strickland made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 121 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 2306.7 TO READ AS
FOLLOWS:**

2306.7 Smoke and heat removal. Where smoke and heat removal is required by Table 2306.2, smoke and heat vents shall be provided in accordance with Section 910. Where draft curtains ~~boards~~ are required by Table 2306.2, they shall be provided in accordance with Section 910.3.4.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 122 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 910.2.1 TO READ AS
FOLLOWS:**

910.2.1 Groups F-1 and S-1. Buildings and portions thereof used as a Group F-1 or S-1 Occupancy having more than 50,000 square feet of undivided area.
Exception: Group S-1 Aircraft repair hangars.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 122A – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 910.2.1 OF THE
NORTH CAROLINA BUILDING CODE TO READ AS FOLLOWS:**

910.2.1 Groups F-1 and S-1. Buildings and portions thereof used as a Group F-1 or S-1 Occupancy having more than 50,000 square feet of undivided area.
Exception: Group S-1 Aircraft repair hangars.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 123 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 910.2.2 TO READ AS
FOLLOWS:**

910.2.2 Group H. Building and portions thereof used as a Group H occupancy as follows:

1. In occupancies classified Group H-1, H-2 or H-3, any of which are over 15,000 square feet (1394 m²) in single floor area.
Exception: Buildings of noncombustible construction containing only noncombustible materials.
2. In areas of buildings in Group H used for storing Class 2, 3, and 4 liquid and solid oxidizers, Class 1 and unclassified detonatable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3 water reactive materials as required for a Class V Hazard Classification.
Exception: Buildings of noncombustible construction containing only noncombustible materials.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 123A – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 415.6 OF THE
BUILDING CODE TO READ AS FOLLOWS:**

415.6 Smoke and Heat Venting. Smoke and heat vents complying with Section 910 shall be installed in the following locations:

1. In occupancies classified Group H-1, H-2 or H-3, any of which are over 15,000 square feet (1394 m²) in single floor area.
Exception: Buildings of noncombustible construction containing only noncombustible materials.
2. In areas of building in Group H used for storing Class 2, 3 and 4 liquid and solid oxidizers, Class 1 and unclassified detonable organic peroxides, Class 3 and 4 unstable (reactive) materials, or Class 2 or 3

water reactive materials as required for a Class V Hazard Classification.

Exception: Buildings of noncombustible construction containing only noncombustible materials.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 124 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD A SENTENCE AT THE BEGINNING
OF SECTION 1505.10 TO READ AS FOLLOWS:

1505.10 Roll coating operations. Roll coating operations shall comply with Section 1505.9. In roll coating operations utilizing flammable or....

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 125- PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 2704.13 TO READ AS
FOLLOWS:

2704.13 Weather protection. Where overhead noncombustible construction is provided for sheltering outdoor hazardous material storage areas, such storage shall not be considered indoor storage when the area is construction in accordance with the requirements for weather protection as required by the *International Building Code*.

Exception: Storage of explosive or pyrophoric materials shall be considered as indoor storage.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 126 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 4104.2.2 TO READ AS
FOLLOWS:

4104.2.2 Weather protection. When overhead construction is provided for sheltering of outdoor storage areas of pyrophoric materials, ~~such storage shall be treated as indoor storage~~ the storage areas shall be provided with approved automatic fire extinguishing system protection.

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 127 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD SECTION 4106.3.4 TO READ AS
FOLLOWS:

4106.3.4 Weather protection. The clear height of overhead construction provided for sheltering of outdoor storage shall be no less than 12 feet (3658 mm).

William Bullock made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 128 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE THE DEFINITION IN CHAPTER 2
OF DETACHED STORAGE AS FOLLOWS:

Detached Storage-Building. See Section 2702.1

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 129 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 2702.1 TO READ AS
FOLLOWS:

Detached Storage Building. A separate single-story building, without a basement or crawl space, used for the storage or use of hazardous materials and located an approved distance from all structures.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 130 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO RENUMBER AND REVISE SECTION
2703.8.2 AS FOLLOWS:

~~**2704.14-2703.8.2 Required detached storage-buildings.** Group H Occupancies containing quantities of hazardous materials in excess of those set forth in Table 2704.14-A-2703.8.2 shall be in detached buildings. That do not exceed one story in height, are without basements, crawl spaces or other under-floor spaces and are used for no other purpose.~~

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 131 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO CHANGE TABLE 2704.14 TO TABLE
2703.8.2 AND REVISE TABLE AS SHOWN ON ATTACHMENT #3

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 131A - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
TO REVISE SECTION 415.3.1 AND FOOTNOTE A OF TABLE 415.3.2
OF THE BUILDING CODE.**

415.3.1 Group H minimum distance to lot lines. Regardless of any other provisions, buildings containing Group H occupancies shall be set back a minimum distance from lot lines as set forth in items 1 through 4 below. Distances shall be measured from the walls enclosing the occupancy to lot lines, including those on a public way. Distances to assumed property lines drawn for the purposes of determination of exterior wall and opening protection are not to be used to establish the minimum distance for separation of building on sites where explosives are manufactured or used when separation is provided in accordance with the quantity distance tables specified for explosive materials in the *International Fire Code*.

1. Group H-1. Not less than 75 feet (22,860 mm) and not less than required by Table 415.3.1 the *International Fire Code*.

Footnote a - Table 415.3.2:

- a. For materials ~~that~~ which are detonable, the distance to other buildings or property lines shall be as specified in Table 415.3.1 based on trinitrotoluene (TNT) equivalence of the material. For materials classified as explosives, see the *International Fire Code*.

**ITEM 132 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO DELETE SECTION 2704.14**

~~**2704.14 Required detached storage.** Group H occupancies containing quantities of hazardous material in excess of those set forth in Table 2704.14 shall be in detached buildings that do not exceed one story in height, are without basements, crawl spaces or other under floor spaces, and are used for no other purposes.~~

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 133 - PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3904.1.1 TO READ AS
FOLLOWS:**

3904.1.1 Detached storage. Storage of organic peroxides shall be in detached ~~storage~~ buildings when required by Section ~~2804.14~~ 2703.8.2.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 134 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 4004.1.1 TO READ AS
FOLLOWS:**

4004.1.1 Detached storage. Storage of liquid and solid oxidizers shall be in detached ~~storage~~ buildings when required by Section ~~284.14~~ 2703.8.2.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 135 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3003.2 TO READ AS
FOLLOWS:**

3003.2 Marking. Stationary and portable compressed gas containers, cylinders, tanks and systems shall be marked in accordance with ANSI A13.1, CCA C7 or NFPA 704. Section 3003.2.1, 3003.2.2 and 3003.2.3.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 136 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3003.2.1 TO READ AS
FOLLOWS:**

3003.2.1 Stationary compressed gas containers, cylinders and tanks. Stationary compressed gas containers, cylinders and tanks shall be marked with the name of the gas and in accordance with ~~NFPA 704~~. Sections 2703.5 and 2703.6. Markings shall be visible from any direction of approach.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 137 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD A NEW DEFINITION OF IRRITANT TO
CHAPTER 2 AS SHOWN:**

Irritant. A chemical which is not corrosive, but which causes a reversible inflammatory effect on living tissue by chemical action at the site of contact. A chemical is a skin irritant if, when tested on the intact skin of albino rabbits by the methods of 16CFR, Part 1500.41 for an exposure of four or more hours or by other appropriate techniques, it results in an empirical score of 5 or more. A chemical is classified as an eye irritant if so determined under the procedure listed in 16CFR, Part 1500.42 or other approved techniques.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 138 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD NEW SECTION 3003.5.9 ON
EXHAUSTED ENCLOSURES AS SHOWN:**

3003.5.9 Exhausted enclosures. When exhausted enclosures are provided as a means to segregate compressed gas containers, cylinders and tanks from exposure hazards they shall comply with the requirements of Section 2703.8.4.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 139 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD NEW SECTION 3003.5.10 ON GAS
CABINETS AS SHOWN:**

3303.5.10 Gas cabinets. When gas cabinets are provided as a means to separate compressed gas containers, cylinders and tanks from exposure hazards they shall comply with the requirements of Section 2703.8.5.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 140 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD NEW SECTION 3007 ON
COMPRESSED GASES NOT OTHERWISE REGULATED AS SHOWN :**

3007.1 General. Compressed gases in storage or use not regulated by material specific provisions of Chapters 6, 31, 35 and 37 through 45 including asphyxiant, irritant and radioactive gases shall comply with this section in addition to other requirements of this chapter.

3007.2 Ventilation. Indoor storage and use areas and storage buildings shall be provided with mechanical exhaust ventilation or natural ventilation in accordance with the requirements of Section 2704.3 or 2705.1.9. When mechanical ventilation is provided the systems shall be operational during such time as the building or space is occupied.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 141 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3104.2.2 AS SHOWN:**

3104.2.2 Distance from storage to exposures. Outdoor storage of corrosive materials shall not be within 20 feet (6096 mm) of buildings not associated with the manufacturing or distribution of such materials, lot lines, streets, alleys, public ways or means of egress.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 142 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE TABLE 4004.2.2 AS SHOWN:**

**Table 4004.2.2
OXIDIZING GASES – DISTANCE TO EXPOSURES**

Quantity of Gas Stored (cubic feet at NTP)	Distance to a building <u>Not Associated With the Manufacture or Distribution of Oxidizing Gases</u> or Public Way or Property Line that can be Built Upon (feet)	Distance Between Storage Areas (feet)
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Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 143 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3205.1.2.5 TO READ
AS FOLLOWS:**

3205.1.2.5 Corrosion protection. Above-ground piping that is subject to corrosion, due to exposure to corrosive atmospheres, shall be constructed of materials to resist the corrosive environment or otherwise protected against corrosion. Below ground piping shall be protected against corrosion.

Brad Lail made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 144 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE CHAPTER 2, CHAPTER 33 AND
APPENDIX E AS SHOWN ON ATTACHMENT #4.**

Brad Lail made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 144A – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 307.2 AND FOOTNOTE
E OF TABLE 415.3.1 OF THE BUILDING CODE AS FOLLOWS:**

Operating Building. A building occupied in conjunction with the manufacture, transportation, or use of explosive materials. Operating buildings are separated from one another with the use of intraplant or intraline distances.

e. Magazine is a building or structure, other than an operating building, approved for storage of explosive materials. ~~In addition to the requirements of this code.~~ Portable or mobile magazines not exceeding 120 square feet in area

need not comply with the requirements of this code, however, all magazines shall comply with the *International Fire Code*.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 145 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO ADD AN EXCEPTION TO SECTION
3405.3.6.1 TO READ AS FOLLOWS:**

Exception: Materials used in commercial and industrial process-related cleaning operations in accordance with other provisions of this code and not involving facilities maintenance cleaning operations.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 146 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE CHAPTER 1, CHAPTER 2,
CHAPTER 34 AS SHOWN ON ATTACHMENT #5.**

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

**ITEM 147 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 3503.1.1 TO READ AS
FOLLOWS:**

3503.1.1 Special Limitations for indoor storage and use. Flammable gases shall not be stored or used in Group A, B, E, ~~F~~, I, ~~M~~, ~~or R, or S~~ occupancies.

Brad Lail made a motion to approve. The motion was seconded, and the motion carried.

**ITEM 148 – PROPOSAL BY REED JARVIS OF THE FIRE SERVICE CODE
REVISION COMMITTEE TO REVISE SECTION 4003.1.1.3 TO READ AS
FOLLOWS:**

4003.1.1.3 Oxidizing gases. Except for cylinders not exceeding a capacity of 250 cubic feet each used for maintenance purposes, patient care or operation of equipment, oxidizing gases shall not be stored or used in Group A, B, E, ~~F~~, I, ~~M~~, ~~or R, or S~~ occupancies.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 149 – PROPOSAL BY THE APARTMENT ASSOCIATION OF NC TO ADD A NEW SECTION 903.2.8.1 TO READ AS FOLLOWS:

903.2.8.1 Fire Protection Incentives. In buildings with an R-2 occupancy and Type V-B construction provided with a Residential Sprinkler System installed in accordance with Section 903.1.2, including sprinkler protection for stairways, exitways, exterior balconies and exterior attached storage rooms and the following exceptions shall apply:

1. No separation shall be required between R-2 occupancy and exterior attached storage rooms.
2. The corridor fire resistance rating listed for occupancy Group R in Table 1004.3.2.1 shall be waived.
3. The penetration protection of fire resistant assemblies listed in Section 711 shall be waived. Penetrations of exits, exit access and tenant separations shall be sealed to resist the passage of smoke.

Richard Strickland made a motion to approve Item 95 and Item 149 as amended above. The motion is seconded and the motion carried.

ITEM 150 - PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE SECTION 803.5 TO READ AS FOLLOWS:

803.5 Group I-2, ~~nursing homes and hospitals.~~ The requirements in Sections 803.5.1 through 803.5.3 shall apply to ~~nursing homes and hospitals~~ classified in Group I-2.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 151 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE DELETE EXCEPTION #1 OF SECTION 803.5.1.

Brad Lail made a motion to approve the committee's decision to deny the motion. The motion was seconded, and the motion carried.

ITEM 152 – PROPOSAL BY DFS TO REVISE SECTION 907.2.6.1 TO READ AS FOLLOWS:

907.2.6.1 Corridors in ~~nursing homes (both intermediate care and skilled nursing facilities), detoxification facilities~~ Group I-2 and spaces permitted to be open to corridors shall be protected by an automatic fire detection system.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

ITEM 153 – PROPOSAL BY DIVISION OF FACILITY SERVICES TO REVISE THE EXCEPTIONS TO SECTION 907.2.6.1 TO READ AS FOLLOWS:

1. Corridor smoke detection is not required in smoke compartments that contain patient sleeping rooms where patient sleeping rooms are provided with smoke detectors that comply with UL 268. Such detectors shall provide a visual display on the corridor side of each patient room and shall provide an audible and visual alarm at the nursing station attending each room.
2. Corridor smoke detection is not required in smoke compartments that contain patient sleeping rooms where patient room doors are equipped with automatic door-closing devices with integral smoke detectors on the room sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.

Brad Lail made a motion to approve the proposal. The motion was seconded, and the motion carried.

FIRE CODE ADOPTION

Dan Tingen made a motion to accept the International Fire Code and the blue pages prepared by the ad hoc committees. Motion was seconded and the motion carried.

ADMINISTRATION COMMITTEE MEETING

The Administration Committee met on May 16, 2001 to conclude the revisions to The Administration and Enforcement Requirements. The committee presented its proposed amendments.

Tom Turner made a motion that the Administrative Code be delayed until everyone on the Council has a opportunity to review and comment on the Code. Chairman Gardner stated the Administration Committee will meet again and the Council would meet again before December to approve the Administrative Code. The motion was seconded and the motion carried.

ELECTRICAL COMMITTEE MEETING

The electrical committee reported it had reviewed the 2002 Edition of the National Electrical Code and recommended the Council approve the use of the 2002 Edition. The Committee also reviewed the proposed NC amendments to Chapter 1, Administration, and an amendment to Article 210.71, and amendments to Chapter 9 of the Building Code concerning smoke detectors.

Article 210.71 proposed changes are as follows:

- (5) Additions, alterations or repairs to Group R.** Add exception as follows:

Exception: Repairs to the exterior surfaces of occupancies in Group R are exempt from the requirements of this section.

(B) Power source. Add exception as follows:

Exceptions:

1. Smoke alarms are not required to be equipped with battery backup in Group R-1 where they are connected to an emergency electrical system.
2. Smoke alarms are permitted to be solely battery operated in existing buildings, buildings not served from a commercial power source and in existing areas where alterations or repairs regulated by Section 210.71(A)(5) do not result in the removal of interior wall or ceiling finishes exposing the structure.

(C) Interconnection. Add exception as follows:

Exceptions:

1. Smoke alarms that are permitted to be solely battery operated in accordance with Section 210.71(B) are not required to be interconnected.
2. Smoke alarms in existing areas are not required to be interconnected where alterations or repairs regulated by Section 210.71(A)(5) do not result in the removal of interior wall or ceiling finishes exposing the structure.

Building Code changes are as follows:

907.2.10.1.4 One-and Two-Family Dwellings. Single- or multiple-stations smoke alarms shall not be required where the dwelling unit is protected by an approved smoke detection system in accordance with NFPA 72.

907.2.10.2 Power source.

Exceptions:

- ~~3.~~ Smoke alarms are permitted to be solely battery operated in existing buildings, buildings not served from a commercial power source and in existing areas where alterations or repairs to areas identified in Sections 907.2.10.1.1 through 907.2.10.1.3 regulated by Section 907.2.10.1.4 do not result in the removal of interior walls or ceiling finishes exposing the structure. ~~unless there is an attic, crawl space or basement available which could provide access for building wiring without the removal of interior finishes.~~

907.2.10.3 Interconnection.

Exception:

2. Smoke alarms in existing areas are not required to be interconnected where alterations or repairs to areas identified in Sections 907.2.10.1.1 through 907.2.10.1.3 regulated by Section 907.2.10.1.4 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 interconnection without the removal of interior finishes.~~

Dennis Norris made a motion to approve the 2002 Edition of the National Electrical Code, Chapter 1, Administration and the proposed code changes. The motion was seconded and the motion carried.

OTHER ITEMS

1. A request by the City of Asheville was presented that would remove the City of Asheville from Section 108.2, Local Government Modifications Approved by the Council, Volume V, Fire Prevention. Brad Lail made a motion to approve the request by the City of Asheville. The motion was seconded, and the motion carried.

2. Grover Sawyer stated that the Building Code Ad Hoc committee recommended removing chapter 34 from the 2000 Edition of the International Building Code and inserting Chapter 34 from the current NC Building Code. Staff requested the Council to overturn the ad hoc committee recommendation and include chapter 34 from the 2000 Edition of the International Building Code in the 2002 Edition of the NC Building Code. In addition, North Carolina would allow the continued use of Volume IX, Existing Buildings. There will be revisions for single exits and references to the Accessibility Code. Aubrey Smith made a motion to approve the staff proposal. The motion was seconded and the motion carried.

3. Grover Sawyer noted that the current code provisions for sound transmission are now in Appendix K of the 2002 Edition of the Residential Code. Moving the provisions from the body of the code and placing them in the Appendix makes the provisions optional, rather than mandatory (they are currently mandatory). Dan Tingen made a motion to reference Appendix K in the body of the code, thus making Appendix K mandatory. The motion was seconded and the motion carried.

4. A packet of information was received from Phil Fisher with the Real Estate Board, requesting that the Council study moisture problems associated with hard coat stucco. The item was referred to the Residential Committee.

5. Packet of information from Barrier Engineering requesting code changes to Chapter 16 of the NC Building Code. This item was referred to the Structural Committee.

There being no further business, the meeting was adjourned.

Sincerely,

Wanda D. Edwards, PE
Secretary

ATTACHMENT #1

421 Licensed Residential Care Facilities

421.1 Buildings in which more than three people are harbored for medical, charitable or other care or treatment shall be classified as Residential Care Facilities. The State Agency having jurisdiction shall classify the facility as a Residential Care Home, Small Residential Care Facility, Small Non-Ambulatory Care Facility, or Large Residential Care Facility.

421.1.1 Fire extinguishers shall be installed in Licensed Residential Care Facilities in accordance with the *International Fire Prevention Code*.

421.1.2 Where two exits are required, the exits or exit access doors shall be so located and constructed to minimize the possibility that both may be blocked by any one fire or other emergency condition.

421.2 Residential Care Homes. Homes keeping no more than six adults or six unrestrained children who are able to respond and evacuate the facility without assistance, determined by the State Agency having jurisdiction to be licensable, shall be classified as Single Family Residential (North Carolina State Residential Code).

421.2.1 Each normally occupied story of the facility shall have two remotely located exits.

421.2.2 Smoke detectors shall be provided on all levels per the North Carolina Electrical Code.

421.2.3 Interior wall and ceiling finish shall be Class C.

421.2.4 Unvented fuel-fired heaters and portable electric heaters shall not be used.

421.3 Small Residential Care Facilities. When determined by the State Agency having jurisdiction to be licensable shall be classified as Single-Family Residential.

- 1. Residential Care Facilities keeping no more than six adults or six unrestrained children with no more than three who are unable to respond and evacuate without assistance.**
- 2. Residential Care Facilities keeping no more than five adults or five children who are unable to respond and evacuate without assistance, when certifiable for Medicaid reimbursement, and when staffed 24-hours per day with at least two staff awake at all times.**
- 3. Residential Care Facilities keeping no more than nine adults or nine children who are able to respond and evacuate without assistance.**

- 421.3.1 Either the building shall be of one-hour fire resistant construction including all walls, partitions, floors and ceilings and bedroom doors shall be 1.75 inches solid wood core or the building shall be sprinkled with a wet pipe system in accordance with NFPA 13R including bathrooms, toilets, closets, pantries, storage and utility spaces. The sprinkler system shall be monitored per Section 903.4 (Section 903.4, Exception 1 is not applicable in this occupancy).
- 421.3.2 Buildings shall not exceed two stories in height or the area limitations for Group R-4. Attics and basements used as habitable spaces shall be counted as stories.
- 421.3.3 Each normally occupied story of the facility shall have two remotely located exits.
- 421.3.4 Facility exit stairways shall be either exterior unenclosed or interior enclosed on each level with one-hour fire resistant construction and a self-closing 20-minute labeled door. Other interior stairways shall be enclosed on one floor level with one-hour fire resistant walls and a self-closing 20-minutes labeled door.
- 421.3.5 Smoke detectors shall be provided on all levels per the North Carolina Electrical Code. Heat detectors shall be installed in all attic spaces. The heat detectors shall be connected to the fire alarm and detection system.
- 421.3.6 Any incidental use area (as defined by Table 302.1.1) shall be enclosed with one-hour fire resistant construction and self-closing 20-minute labeled door or provided with sprinklers and smoke resistant separation from other areas.
- 421.3.7 A building fire alarm system shall be provided in accordance with NFPA 72. Provisions shall be made to activate the internal evacuation alarm at all required exits.
- 421.3.8 Interior wall and ceiling finish shall be gypsum wallboard, plaster or other non-combustible material.
- 421.3.9 Unvented fuel-fired heaters, floor furnaces, and portable electric heaters shall not be used.
- 421.3.10 Occupants younger than six-years of age shall sleep on the level of exit discharge with adult supervision.
- 421.3.11 Every facility shall formulate an evacuation plan (in cooperation with the local fire department) for the protection of all persons in the event of fire, for their evacuation to areas of refuge, and from the building when necessary.

421.4 Small Non-Ambulatory Care Facilities. Facilities keeping no more than six adults or six children who are unable to respond and evacuate without assistance, when determined by the State Agency having jurisdiction to be licensable shall comply with the requirements for Small Residential Care Facilities.

421.4.1 The building shall be sprinkled with a wet pipe system in accordance with NFPA 13R including bathrooms, toilets, closets, pantries, storage and

utility spaces. The sprinkler system shall be monitored per Section 903.4 (Section 903.4 exception one is not applicable in this occupancy).

421.5 **Large Residential Care Facilities.** Facilities keeping no more than twelve residents, when determined by the State Agency having jurisdiction to be licensable shall be classified as Group R-4, residential (North Carolina State Building Code).

421.5.1 The building shall be of one-hour fire resistant construction, sprinkled with a wet pipe system in accordance with NFPA 13R including bathrooms, toilets, closets, pantries, storage and utility spaces, and limited to one story in height. The sprinkler system shall be monitored per Section 903.4 (Section 903.4, Exception 1 is not applicable in this occupancy).

421.5.2 The facility shall have two remotely located exits.

421.5.3 All doorways subject to use by residents shall have a clear width of not less than 32-inches when the door is in the open position.

421.5.4 Required corridors, ramps, and passageways shall have a clear width of not less than 6-feet when serving as part of the means of egress from resident areas.

421.5.5 Buildings may have spaces open to the corridor provided:

1. Each area does not exceed 250 square feet.
2. The spaces are not used for patient sleeping rooms, treatment room, or incidental use areas as defined in Table 302.1.1.
3. The area is equipped with smoke detectors.
4. Not more than one such area is permitted in any one smoke compartment when smoke compartments are provided.
5. The area is arranged not to obstruct access to required exits.

421.5.6 Unless required otherwise by Section 419.5.8, corridor partitions and doors in corridor partitions need not have a fire resistance rating but shall be designed to resist the passage of smoke. Doors shall be equipped with approved latches that will keep the door tightly closed. All doors except those to patient sleeping rooms shall be self-closing or automatic closing by smoke detection. Interior wall and ceiling finish shall be gypsum wallboard, plaster or other non-combustible material.

421.5.7 Corridors shall be provided with smoke detectors. Heat detectors shall be installed in all attic spaces. The heat detectors shall be connected to the fire alarm and detection system.

421.5.8 Any incidental use area shall comply with the requirements of Table 302.1.1.

421.5.9 A building fire alarm system shall be provided in accordance with NFPA 72. Provisions shall be made to activate the internal evacuation alarm at all required exits.

421.5.10 Every facility shall formulate an evacuation plan (in cooperation with the local fire department and community emergency planning authority) for the protection all persons in the event of fire, for their evacuation to areas of refuge, and from the building when necessary.

ATTACHMENT #2

1003.3.1.8.5 Special Locking Arrangements for Licensed Group I-1, I-2, and Residential Care Facilities. Doors in buildings protected throughout by an automatic fire detection system or automatic sprinkler system may be equipped with approved, listed, locking devices which shall:

1. Unlock upon actuation of the automatic fire detection system or automatic sprinkler system.
2. Unlock upon loss of power controlling the locking device.

Exception: Independent standby power is acceptable as long as the automatic fire detection system, or automatic sprinkler system, when activated, has precedence over the standby power and unlocks the door. If a non-emergency situation occurs such as a power outage, the door shall be allowed to remain locked until detection system(s) operate, provided that the power outage does not disable these detection systems. If any of the detection systems are disabled in any way, standby power controlling the locking devices will be interrupted.

3. A special locking system of electromagnetic locks may be utilized when all of the following requirements are met:
 - a. These types of locks may be used only in wards and wings or other portions of a facility that requires security provisions for the protection of its patients.
 - b. These systems may be used provided not more than one such system is located in any egress path.
 - c. A wiring diagram and system components location map shall be provided under glass adjacent to the fire alarm panel.
 - d. An on/off emergency release switch(es) must be capable of interrupting power to all electromagnetically locked doors in the facility. Release switch(es) shall be located and properly identified at each nurses station serving the locked unit and any other control station responsible for the evacuation of the occupants of the locked unit which are manned 24 hours.
 - e. An additional emergency release switch shall be provided for each locked door and located within 3 ft of the door.
 - f. Any required emergency release switch shall interrupt the power to the locking device(s) and shall not depend on relays or other devices to cause the interruption of power. If any required emergency release switch is of the locking type, all staff that are responsible for the evacuation of the occupants of the locked unit must carry emergency release switch keys. Additional convenience release devices may be provided.

4. Each special locking installation shall be approved by the appropriate fire and building inspection authority prior to installation, after installation, and prior to initial use and reviewed periodically thereafter.
5. Emergency lighting shall be provided at the door.

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Henry Webster, PE	NCDOI	David Lovich PE	Owens Corning
Al Bass, PE	Council	Starlette Brown	NC Commerce
John Wiggins	UL Labs	Leo Sagasti, AIA	AIA
John Roberts, PE	Engineer	Ronald N. Helms, PhD, PE	Appalachian State
Keith Newcomer	NC Natural Gas	Bobby Davis	R. L. VanStory

INTERNATIONAL ACCESSIBILITY AD HOC COMMITTEE

Name	Affiliation	Name	Affiliation
Aubrey Smith	Council	Tom Turner	Council
Ken Symanski	Apartment Assoc.	Justin Little	Contractor
Fred Mills	Contractor	John Dalrymple	Independent Living
Jim Bartl	AIA	Nancy Borum	Designer
Leslie Young	Center for Design	David Webb	Engineer
Harry Van Wagenen	Inspector	Laurel Wright	NCDOI

**AGENDA FOR ADMINISTRATION COMMITTEE
JULY 18, 2001
2:00 PM
410 NORTH BOYLAN AVENUE**

- ITEM 1 - REVIEW COMMENTS SUBMITTED BY TOM TURNER**
- ITEM 2 - REVIEW COMMENTS SUBMITTED BY JOHN HITCH**
- ITEM 3 - GENERAL DISCUSSION TO REVIEW CHANGES MADE BY COMMITTEE**

**AGENDA FOR FIRE PREVENTION COMMITTEE
SEPTEMBER 18, 2001
9:30 AM
410 NORTH BOYLAN AVENUE**

- ITEM 1 - PROPOSAL BY RONNIE HAHN, ASSOCIATED FIRE PROTECTION, TO REVISE SECTION 905.2 AS FOLLOWS:**

905.2 Installation standards. Standpipe systems shall be installed in accordance with this section and NFPA 14.

Exception:

When buildings are sprinklered in accordance with 903.3.1.1, the pressure requirements for the water supply are that they meet the requirements for the sprinkler system; the supply is not required to meet the higher pressures required for the standpipe systems.

This exception does not apply to high-rise buildings.

**AGENDA FOR MECHANICAL COMMITTEE
SEPTEMBER 18, 2001
1:00 PM
410 NORTH BOYLAN AVENUE**

ITEM 1 - PROPOSAL BY FREEDOM PLASTICS, INC., TO ADD A NEW SECTION TO THE PLUMBING CODE AS FOLLOWS:

ASTM F1866. This standard covers PVC DWV and drainage fittings fabricated through 24 inches. The PVC DWV standard for pipe and fittings D2665 only covers fittings through 12 inches. Few molded, D2665 fittings are made above 8 inches. F1866 fills a market need for larger fittings, especially for rainwater piping applications. The F1866 fittings are fabricated from pipe or molded fittings meeting the existing requirements of D 2665 and D 1784, both of which are already referenced in the code. The performance requirements for fittings made under F1866 are both stringent and comprehensive.

**AGENDA FOR STRUCTURAL COMMITTEE
SEPTEMBER 19, 2001
9:30 AM
410 NORTH BOYLAN AVENUE**

ITEM 1 - PROPOSAL BY REID BAILEY, PE, BARRIER, TO REVISE SECTION 1610.2 AS FOLLOWS:

1610.2

Retaining wall - As in International Building Code (IBC) 2000. (Corollary to current NC State Building Code 1804.6.2).

ITEM 2 - PROPOSAL BY REID BAILEY, PE, BARRIER, TO ADD NEW SECTION 1610.2.1 AS FOLLOWS:

1610.2.1

Designs are required for the following structures:

1. Retaining walls not excluded in Section 105.2.4.
2. Earth structures and soil slopes greater than 4 feet in height and steeper than 1.5 horizontal (H) to 1 vertical (V).
- 3.

**ITEM 3 – PROPOSAL BY REID BAILEY, PE, BARRIER TO ADD NEW SECTION
1610.2.2 AS FOLLOWS:**

1610.2.2

The retaining walls and earth structures shall be designed by a Professional Engineer or Architect qualified in geotechnical analysis, as previously defined in current NC State Building Code Section 1801.2

**ITEM 4 – PROPOSAL BY REID BAILEY, PE, BARRIER TO ADD NEW SECTION
1610.2.3 AS FOLLOWS:**

1610.2.3

The retaining walls and earth structures shall be designed and submitted as part of the construction documents and site plan for permit application. Please refer to section 106 – “Construction Documents” of the IBC 2000.

**ITEM 5 – PROPOSAL BY REID BAILEY, PE, BARRIER TO ADD NEW SECTION
1610.2.4 AS FOLLOWS:**

1601.2.4

All retaining walls and earth structures over 4 feet in height shall be inspected according to the provisions of section 1704 – “Special Inspections” of the IBC 2000. Please see current NC State Building Code section 1801.2.1, 1801.2.2, and 1801.2.3.