

April 30, 1999

Mr. Barry Gardner
(General Contractor)
Shelco, Inc.
P. O. Box 25747
Winston-Salem, NC 27114-5747

RE: Agenda for June 8, 1999
Building Code Council Meeting

Dear Barry:

This is to officially notify you and other interested parties of a regularly scheduled meeting of the Building Code Council to be held at:

9:00 a.m. Tuesday, June 8, 1999
Hilton Hotel - *Meeting Room 1*
207 SW Greenville Blvd
Greenville NC 27834
Phone: (252)-355-5000

The Building Code Council will hold a work session on Monday June 7, 1999 at 2:00 p.m. The work session will be held at the Hilton in Meeting Room 2. This session is open to the public on a non-contributing basis.

Persons requiring auxiliary aid or service should notify the Council at least (10) working days prior to the meeting.

ITEM 1. APPROVAL OF MINUTES OF THE DECEMBER 8, 1999 MEETING.

ADMINISTRATIVE COMMITTEE MEETING

The Administrative Committee met on March 29, 1999 to discuss the following new agenda item. The Committee makes the following recommendations:

ITEM 2. REQUEST BY STAFF TO APPROVE A CODE MORATORIUM ON NORTH CAROLINA CODE CHANGE

**HEARINGS FROM JULY 1999 UNTIL DECEMBER 2001
(BUILDING CODE COUNCIL MEETINGS 12/1999,
6/2000, 12/2000) WHILE THE NORTH CAROLINA**

CODE COMMITTEES WORK TO CREATE THE 2002 NORTH CAROLINA BUILDING CODE BASED ON THE INTERNATIONAL BUILDING CODES. CODE HEARINGS WILL RESUME JUNE 2001 WITH AMENDMENTS EFFECTIVE JANUARY 1, 2002.

THE COUNCIL WILL MEET TWO TIMES A YEAR TO HEAR THE FOLLOWING:

- 1. BUILDING CODE APPEALS PER GS 143-140.**
- 2. FURTHER STUDY ITEMS.**
- 3. THE RESIDENTIAL WIND AD HOC COMMITTEE PROPOSALS & REPORT.**
- 4. THIRD PARTY APPROVALS.**

Committee Action: Approve.

Reason: To allow the North Carolina Code Committees to meet and draft North Carolina s 2002 Building Code which will be submitted for final adoption at the June 2001 Council Meeting.

FIRE PREVENTION CODE COMMITTEE MEETING

The Fire Prevention Committee met on March 24, 1999 to discuss items referred to them by the Council and new agenda items. The Committee makes the following recommendations:

ITEM 3. REQUEST BY RICHARD DIPERT, P. E. OF STAFF TO UPDATE THE NFPA FIRE STANDARDS AS FOLLOWS:

Revised NFPA Standards

<u>Volume</u>	<u>Standard</u>
V 1,5	22 Water Tanks for Private Fire Protection, 1996 <u>1998</u>
V 1,5	30B Manufacture and Storage of Aerosols <u>Aerosol Products</u> 1994, 1998
V 5	52 Standard for Compressed Natural Gas (CNG) Vehicle Fuel Systems, 1995 <u>1998</u>
V 5	68 Venting of Deflagrations, 1994 <u>1998</u>
V 1,3,5	70 National Electric Code 1996 <u>1999</u>
V 3,5	96 Ventilation Control and Fire Protection of Commercial Cooking Operations, 1994 <u>1998</u>
V 1,5	231 General Storage, 1995 <u>1998</u>
V 1,5	231C Rack Storage of Materials, 1995 <u>1998</u>
V 5	231D Storage of Rubber Tires, 1994 <u>1998</u>
V 5	260 Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture, 1994 <u>1998</u>
V 5	261 Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes, 1995 <u>1998</u>
V 5	318 Protection of Cleanrooms, 1995 <u>1998</u>
V 5	480 Production, Processing, Handling, and Storage of <u>Magnesium, 1993</u>

Storage, Handling, and Processing of Magnesium Solids
and Powders, 1998

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V 5	490	Storage of Ammonium Nitrate, 1993 <u>1998</u>
V 5	513	Motor Freight Terminals, 1994 <u>1998</u>
V 5	651	Manufacture of Aluminum and Magnesium Powder, <u>1993 Machining and Finishing of Aluminum and the Production and Handling of Aluminum Powder, 1998</u>
V 5	664	Prevention of Fire and Explosions in Wood Processing and Wood Working Facilities, 1993 <u>1998</u>
V 5	1124	Code for the Manufacture, Transportation, Storage of Fireworks, 1995 <u>Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles, 1998</u>

Update and Renumber the following Standards:

V 5	43D <u>434</u>	Storage of Pesticides, 1994 <u>1998</u> (Also change in Table 2201.2.2)
V 5	204M <u>204</u>	Smoke and Heat Venting, 1994 <u>1998</u>

Delete the following Standards:

V 5	65	Processing and Finishing of Aluminum, 1993 (Also Delete from Tables 402.15.2 and 2201.2.2)
V 5	263	Method of Test for Heat and Visible Smoke Release Rates for Materials and Products, 1994
V 1	71	Installation, Maintenance, and Use of Central Station Signaling Systems, 1989
V1	74	Household Fire Warning Equipment 1989 (add reference 905.1.2 to list of references under NFPA 72)

Delete reference to NFPA 651 in Volume 5, Table 2201.2.2 for magnesium as follows:
Magnesium 27 480/~~651~~

Committee Action: Approve.

Reason: To update our Code to the latest NFPA Standard.

**ITEM 4. REQUEST BY CARLTON ROBERSON TO REVISE VOLUME V SECTION 3901.1
AS FOLLOWS:**

3901.3 This Chapter shall not apply to fabric canopies and awnings open on all sides or with screening required by the North Carolina Health Department which comply with all the following:

Committee Action: Deny

Reason: The Committee did not consider screening as equivalent to open on all sides for egress and fire protection. The original language is identical to the International Fire Code text.

MECHANICAL COMMITTEE MEETING

The Mechanical Committee met on February 2, 1999 to discuss items referred to them by the Council and new agenda items. The Committee makes the following recommendations:

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ITEM 5. REQUEST BY ED WARNER P. E. OF THE NC DEPARTMENT OF PUBLIC INSTRUCTION TO REVISE VOLUME III SECTION 403 TO CLARIFY VENTILATION REQUIREMENTS FOR CLASSROOMS.

Add the following to paragraph 403 of Volume III:

Exception: Each school classroom s ventilation may be reduced to a minimum of 7.5 CFM per person as per ASHRAE 62-89, Section 6.1.3.4. Additional ventilation and/or exhaust systems shall be provided as required for conditions which generate unusual odors or sensory irritating contaminants. Outside air intake components (louvers, fresh air ducts) shall be sized to provide 15 CFM per person temporarily for special ventilation needs.

Committee Action: Approve.

Reason: A mandatory requirement of 15 CFM per person adds an additional problem of humidity. Equipment to remove this moisture from the air is costly. The Committee considers 7.5 CFM an adequate ventilation rate.

ITEM 6. REQUEST BY BILLY HINTON, P. E. OF STAFF TO REVISE VOLUME X, SECTION 101 AS FOLLOWS:

Add the following Exception to Section 101:

(5) Air supported, air inflated, and tensioned membrane structures collectively known as membrane structures used as complete buildings erected for periods less than 270 days.

Committee Action: Approve.

Reason: Economics forming the basis for the 90.1 criteria upon which the NC Energy Code Volume X is based was performed considering permanent conventional structures. This Section will exempt structures such as swimming pools with temporary enclosures, from the energy requirements.

GENERAL CONSTRUCTION COMMITTEE MEETING

The General Construction Committee met on March 17, 1999 to discuss items referred to them by the Council and new agenda items. The Committee makes the following recommendations:

ITEM 7. REQUEST BY THE NORTH CAROLINA APARTMENT ASSOCIATION TO REVISE SECTIONS OF CHAPTER 30 & 49 OF VOLUME I-C. DRAFT OF REVISIONS BY JEFF KANNER OF THE DEPARTMENT OF INSURANCE AVAILABLE UPON REQUEST.

Committee Action: The Committee voted to approve the draft by Jeff Kanner with the exception that the 5% accessible Type A dwelling units will remain unchanged. Requirements for Type B dwelling units will be substantially concurrent with H.U.D. s Fair Housing Guidelines. The Committee directed the Department of Insurance to provide instruction to code officials on the new Accessibility Code. Additionally the Committee strongly encourages each inspection department to send at least one inspector to a training class.

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ITEM 8. REQUEST BY BRUCE RUNBERG, ASSOCIATE VICE CHANCELLOR OF FACILITY SERVICES TO REVISE THE 1999 VOLUME I-C SECTION 4.2.1 TO ADD THE FOLLOWING WORDS BELOW THE TABLE ON THE MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED:

Spaces required by the table need not be provided in the particular lot. They may be provided in a different location if equivalent or greater accessibility, in terms of distance from an accessible entrance, cost, and convenience is ensured.

Committee Action: Deny.

Reason: The proposed language is open ended and will be difficult for the code official to enforce.

ITEM 9. REQUEST BY BEN B. AYCOCK, P. E. TO ADD A NEW SECTION TO VOLUME I, SECTION 1020.3 ON INTERIOR SECURITY DOORS AS FOLLOWS:

Section 1020.3 Interior Security Doors: Within a tenant space, electronic security locks, such as card key or similar type locks may be used in any element of the exit paths without meeting the requirements of Sections 1012.6.1 & 1012.6.2 & 3003.1.5 subject to the following:

1. The building is completely protected by a fully supervised automatic sprinkler system as described in 903.
2. All of the electronic locks are of the fail safe type and arranged to unlock upon activation of a smoke alarm, manual fire alarm box or sprinkler head anywhere in the building. These locks must also unlock upon loss of primary power supply, or power to the alarm system and shall not be connected to the auxiliary power supply.
3. All of the electronic locks within an elevator height zone must unlock upon elevator recall.
4. A control switch must be provided at a main security desk or in the Central Control Room required in 412.8 which will unlock all electronic locks.
5. Unlocking circuits are arranged as described in Section 3-9.7 of the National Fire Alarm Code (NFPA 72, 1999 Edition).

Committee Action: Further Study

Reason: The Committee requested that the proponent work with the Department of Insurance and the Building Inspectors Association to see if an agreement can be reached.

ITEM 10. REQUEST BY THE FIRE AD HOC COMMITTEE TO REVISE VOLUME I, SECTIONS 903.7.5, 903.8, & 905.1.1 REGARDING SPRINKER AND FIRE ALARM REQUIREMENTS FOR RESIDENTIAL OCCUPANCIES. EFFECTIVE DATE JULY 1, 1999.

903.7.5 Group R1 - Residential Occupancy. An approved automatic sprinkler system shall be provided throughout Group R1 occupancies three or more stories in height.

~~EXCEPTION: An automatic sprinkler system shall not be required when exterior exitway stairs complying with 1006.2 are provided for the guest rooms.~~

903.8 Supervision.

903.8.1 Where an automatic sprinkler system is provided either as a requirement or as an alternate to another requirement of this code, the system shall be electrically supervised by one of these methods:

1. Approved central station system in accordance with NFPA 72;
2. Approved proprietary or remote central station system, or an approved supervisory service in accordance with NFPA 72 which will cause the actuation of an audible appliance at a constantly attended location.

EXCEPTION TO 1 AND 2:

1. Supervisory facilities in accordance with 903.8 shall not be required for extinguishing systems in R-2 occupancies with a 13R sprinkler system.
2. Limited area systems serving fewer than twenty sprinklers.

905.1.1 A fire protective signaling system in accordance with NFPA 72 shall be installed in all of the following occupancies:

Group R1 (transient) and R2 occupancies containing ~~R1 occupancies having accommodations for more than 15 guests.~~ more than 16 dwelling units, and Group R1 (non-transient) containing more than 16 sleeping accommodations.

EXCEPTIONS:

1. A manual fire alarm system is not required in buildings not over two stories in height where all dwelling units and contiguous attic and crawl spaces are separated from each other and public or common areas by at least one-hour fire- partitions and each dwelling unit has an exit directly to a public way, exit court or yard.
2. A separate fire alarm system need not be provided in buildings, which are protected throughout by an approved supervised automatic sprinkler system conforming to this code and having a local alarm to notify all occupants.

~~R2 – Apartment houses four or more stories in height and dormitories or rooming houses having more than 15 sleeping accommodations.~~

~~Exception: Where each guest room has a direct exit to the outside of the building and the building is three stories or less in height.~~

General Construction Committee Action: Approve with an effective date of July 1, 1999.

Reason: The Committee believes that alarm notification and sprinkler system supervision are essential to providing life safety in residential occupancies.

JOINT STRUCTURAL & RESIDENTIAL COMMITTEE

The Structural & Residential Committee met on March 18, 1999 to discuss items referred to them by the Council and new agenda items. The Committee makes the following recommendations:

ITEM 11. REQUEST BY RICHARD WALKER OF AAMA TO ADD NEW TABLES 305.5 AND 4002 (c) WHICH GIVES DESIGN PRESSURES IN PSF FOR DOORS, WINDOWS, AND SKYLIGHTS. (TABLES PROVIDED UPON REQUEST)

Add the following to the end of Section **308.6.2 Permitted materials:**

Skylights shall be designed to resist the positive and negative design pressures in Table 308.6.2 & Table 4002(c).

Table 308.6.2
Design Pressures in psf for Skylights ^{1,2,3,4,5,6}

Table Footnotes the same as below.

Table 4002 (c)
Design Pressures in psf for Skylights ^{1,2,3,4,5,6}

1. Alternate pressures may be determined by using the NC State Building Code, SSTD 10, Wood Frame Construction Manual, or the Standard Building Code 1994 Edition.
2. (a) Corner pressures shall be used when a skylight is more than 4 ft. from any two roof edges (measured from the building wall below, not the roof overhang), ridges, hips, or a combination of these elements.
(b) Edge pressures shall be used when a skylight is less than 4 feet from a roof (measured from the building wall below, not the roof overhang), ridge or hip, but more than 4 feet from any other such element.

- (c) Interior pressures shall be used when a skylight is more than 4 feet from all roof edges (measured from the building wall below, not the roof overhang).
3. Positive pressures apply to all zones.
 4. Skylights shall also be capable of supporting a uniform roof live load at least equal to that required for the rest of the roof.
 5. Row labeled HEIGHT ft. means Mean Roof Height of the structure in feet.
 6. α is the angle from the horizontal up to the roof measure in degrees.

Committee Action: Approve. The finished product must be labeled with the pressures that it was designed. The Committee requested that notification of this action be provided to the skylight manufacturers .

Reason: These Tables provide the design pressures that are required to meet the wind pressures.

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ITEM 11. COMMITTEE REPORTS

MEETING NOTICES:

<u>MEETING</u>	<u>DATE</u>	<u>LOCATION</u>
Residential Wind Ad Hoc Committee Meeting	May 6	Wilmington
NC International Fire Ad Hoc Committee Meeting Insurance	May 19	Department of Insurance
	June 16	Forsyth County Fire Dept.
	July 21	Greensboro
NC International Building Committee Meeting	May 4	Department of Insurance
NC International Mechanical Committee Meeting	May 12	Department of Insurance
NC International Plumbing Committee Meeting	July 7	Department of Insurance

Sincerely,

Elaine R. Brown, P. E.
Secretary

