

- i. The name, organization, mailing address, telephone number, facsimile number, and e-mail address of the proponent of the proposed code change;
  - ii. The primary section of the rehabilitation subcode proposed for change and any other section(s) where corresponding changes are required. Language proposed for deletion shall be presented in brackets and language proposed for addition shall be underlined; and
  - iii. A description and supporting statement for the proposed code change.
3. Rehabilitation subcode code change proposals may be submitted on the form provided in subchapter Appendix 3 A, incorporated herein by reference.
  4. Rehabilitation subcode code change proposals shall be submitted to the Code Development Unit, Department of Community Affairs, Division of Codes and Standards, PO Box 802, Trenton, New Jersey 08625. Code change proposals may be faxed to the Code Development Unit at (609) 984-7717 or (609) 633-6729.
  5. A public hearing for rehabilitation subcode code change proposals shall be held prior to a scheduled Code Advisory Board meeting. The date and time of the public hearing on rehabilitation subcode code change proposals may be obtained by contacting the Code Development Unit at (609) 984-7609.

Amended by R.2004 d.261, effective July 6, 2004.  
See: 35 N.J.R. 1267(a), 36 N.J.R. 3275(a).  
Rewrote the section.

### 5:23-3.14 Building subcode

- (a) Rules concerning the building subcode are as follows:
1. Pursuant to authority of P.L. 1975, c.217, as modified by P.L. 1996, c.53, the Commissioner hereby adopts the model code of the International Code Council, International Building Code, known as the "IBC/2000." This code is hereby adopted by reference as the building subcode for New Jersey subject to the modifications stated in (b) below.
    - i. Copies of this code may be obtained from the International Code Council at 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795.
    - ii. The IBC/2000, as amended, may be known and cited as the "building subcode."
  2. Any references to the mechanical code, plumbing code, International Residential Code, ICC A117.1 standard (including reference to Chapter 11) or the ICC Electrical Code listed in Chapter 35 shall be considered a reference to the appropriate adopted mechanical, plumbing, one- and two-family dwelling or electrical subcode referenced in N.J.A.C. 5:23-3 or to the barrier free subcode, N.J.A.C. 5:23-7, as appropriate.

(b) The following chapters of the building subcode are modified as follows:

1. Chapter 1, Administration, shall be deleted in its entirety. In addition, any referenced section of Chapter 1 shall be deleted throughout the code and "the administrative provisions of the Uniform Construction Code (N.J.A.C. 5:23)" shall be inserted.
2. Chapter 2, Definitions, shall be amended as follows:
  - i. The definition of "addition," shall be deleted.
  - ii. In the definition of agricultural buildings, "A structure qualifying under the Uniform Construction Code definition of a Commercial Farm Building may be built according to the regulations at N.J.A.C. 5:23-3.2(d)" shall be inserted after the last sentence.
  - iii. The definition of "alteration" shall be deleted.
  - iv. The definition of "building" shall be deleted and the following shall be inserted: "BUILDING. A structure enclosed with exterior walls or fire walls, built, erected and framed of component structural parts, designed for the housing shelter, enclosure and support of individuals, animals or property of any kind. When used herein, building and structure shall be interchangeable except where the context clearly indicates otherwise."
  - v. The definition of "building line" shall be deleted.
  - vi. The definition of "building official" shall be deleted and the following shall be inserted: "BUILDING SUBCODE OFFICIAL. A qualified person appointed by the municipal appointing authority or the commissioner pursuant to the act and the regulations to enforce the provisions of the building subcode within the jurisdiction of the enforcing agency."
  - vii. The definitions of "existing structure," "historic building," and "jurisdiction" shall be deleted.
  - viii. The definition of "owner" shall be deleted and the following shall be inserted: "OWNER. The owner or owners in fee of the property of a lesser estate therein, a mortgagee or vendee in possession, an assignee of rents, receiver, executor, trustee, lessee or any other person, firm or corporation, directly or indirectly in control of a building, structure or real property and shall include any subdivision thereof of the State."
  - ix. The definitions of "permit," "person," and "repair" shall be deleted.
  - x. The definition of "structure" shall be deleted and the following shall be inserted: "STRUCTURE. A combination of materials to form a construction for occupancy, use, or ornamentation, whether installed on, above, or below the surface of a parcel of land; provided the word "structure" shall be construed when used herein as though followed by the phrase "or part or

parts thereof and all equipment therein" unless the context clearly requires a different meaning.

3. Chapter 3, Use and Occupancy Classification, shall be amended as follows:

i. In Section 302.3.3, Separated uses, the first sentence of Exception 2 shall be deleted and the following shall be inserted: "A private garage located beneath a room(s) shall have walls, partitions, floors, and ceilings separating the garage from the adjacent interior spaces constructed with not less than a one-hour fire resistance rating. Attached private garages shall be completely separated from the adjacent interior spaces and the attic area by a means of ½-inch gypsum board or equivalent applied to the garage side."

ii. In Table 302.3.3, Required Separation of Occupancies (Hours)<sup>a</sup>, Use Group U shall be deleted.

iii. Section 308.2, Group I-1, shall be amended as follows: In the first sentence, "16" shall be deleted and "5" shall be inserted. In the second sentence, "responding to" shall be deleted and "slow evacuation as defined in Section 22-1.3 of NFPA 101-97, referenced in Chapter 35, in" shall be inserted. In the third sentence, "residential board and care facilities, assisted living facilities" shall be deleted and "boarding houses" shall be inserted. In the same sentence, "abuse" shall be inserted after "drug." Also, "A facility such as above, housing at least six and not more than 16 persons shall be classified as a Group R-4" shall be deleted and the following definition of "boarding house" shall be inserted:

"Boarding House: A building arranged or used for single occupancy where meals or personal or financial services are provided to the residents."

iv. In Section 308.3, Group I-2, "who are not capable of self-preservation" shall be deleted and "where evacuation is impractical as defined in Section 22-1.3 of NFPA 101-97, referenced in Chapter 35" shall be inserted. In the second sentence, a comma shall be inserted after "to" and "assisted living facilities" shall be inserted before "mental hospitals."

v. In Section 308.5, Group I-4, in the second sentence, "with" shall be deleted and "accessory to a dwelling unit and having" shall be inserted.

vi. In Section 308.5.1, Adult Care Facility, "accommodations for less than 24 hours for more than five unrelated adults and provides" shall be deleted, "services" shall be deleted after "care," and the following shall be inserted: "on less than a 24-hour basis where evacuation is slow or impractical as defined in Section 22-1.3 of NFPA 101-97, referenced in Chapter 35, shall be classified as Group I-4. Where evacuation is prompt, the facility shall be classified as Group A-3."

vii. Section 308.5.2, Child Care Facility, shall be deleted and the following shall be inserted: "A facility that provides supervision and personal care on less than a 24-hour basis for children 2½ years of age or less shall be classified as Group I-4." In the same section, the exception shall be deleted.

viii. Section 310, Residential Group R, shall be deleted and the following definitions shall be inserted:

"(1) R-1 Residential occupancies where the occupants are primarily transient (less than 30 days) including:

Hotels (including motels) having transient occupancy

Rooming houses, with more than five residents, having transient occupancy

(2) R-2 Residential occupancies containing more than two dwelling units where the occupants are primarily permanent in nature, including:

Apartment houses

Convents

Dormitories

Fraternity and sorority houses

Monasteries

Rooming houses with more than five residents, not having transient occupancy

Therapeutic residences with more than 16 residents

(3) R-3 Detached one- and two-family dwellings greater than three stories in height, multiple single-family townhouses greater than three stories in height, attached two-family dwellings separated from adjacent units by firewalls, and other single-family dwellings that are outside the scope of the one- and two-family dwelling subcode. Group R-3 includes:

Single residential occupancies, accessory to a dwelling unit, having no more than five roomers or lodgers (Single occupancies, accessory to a dwelling unit, having more than five roomers or lodgers shall be classified as Group R-2 or I-1, as appropriate.)

Adult and child day care facilities, accessory to a dwelling unit, serving five or fewer persons of any age for less than 24 hours.

Rooming houses with five or fewer residents.

Therapeutic residences with five or fewer residents.

(4) R-4 Therapeutic residences including more than five but not more than 16 occupants, excluding staff, capable of prompt evacuation as defined by Section 22-1.3 of NFPA 101-97, referenced in Chapter 35.

Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3 except as otherwise provided in the code.

(5) R-5 Detached one- and two-family dwellings not more than three stories in height and multiple single-family townhouses not more than three stories in height designed and constructed in accordance with the one- and two-family dwelling subcode."

4. Section 310.2, Definitions, shall be amended as follows:

i. The definition of "Boarding House" shall be deleted in its entirety.

ii. In the first sentence of the definition of "Dwelling Unit," "living as a single housekeeping unit" shall be inserted after "persons" and before "including."

iii. The definition of "Personal Care Service" shall be deleted in its entirety.

iv. The definition of "Residential Care/Assisted Living Facilities" shall be deleted in its entirety.

v. The definition of "Rooming House" shall be inserted as follows: "Rooming House: A building arranged or used for single occupancy where no meals or personal or financial services are provided to the residents."

vi. The definition of "Single Residential Occupancy" shall be inserted as follows: "Single Residential Occupancy: A building arranged or used for individual residency by persons living independently of one another, regardless of whether the residents share the use of common facilities, such as kitchen or bathing facilities."

vii. The definition of "Therapeutic Residence" shall be inserted as follows: "Therapeutic Residence: A residence for adults, each of whom is capable of prompt evacuation as defined by Section 22-1.3 of NFPA 101-97, referenced in Chapter 35, and who live within a single dwelling unit for therapeutic purposes, without a resident landlord or operator, but with some government or private social service provider oversight."

viii. The definition of "Transient Occupancy" shall be inserted as follows: "Transient Occupancy: A residential occupancy where no more than fifteen percent of the residents occupy the residency for more than 90 days."

5. Chapter 4, Special Detailed Requirements Based on Use and Occupancy, shall be amended as follows:

i. In Section 402.4.2, Number of Means of Egress, "used by persons other than employees" shall be deleted.

ii. In Section 411.4, Automatic sprinklers, the exception shall be deleted in its entirety.

6. Chapter 5, General Building Heights and Areas, shall be amended as follows:

i. Table 503, Allowable Heights and Building Areas, shall be amended as follows:

(1) Under construction Type VA for Group A-1, "2" shall be deleted and "1" shall be inserted.

(2) Under construction Type IB for Group A-2, "11" shall be deleted and "3" shall be inserted. Under construction Types IIA and IIB for Group A-2, "3" and "2" shall be deleted and "2" and "1" shall be inserted, respectively. Under construction Types IIIA and IIIB for Group A-2, "3" and "2" shall be deleted and "2" and "1" shall be inserted, respectively. In addition, under construction Type IV for Group A-2, "3" shall be deleted and "2" shall be inserted. Finally, under construction Type VA for Group A-2, "2" shall be deleted and "1" shall be inserted.

(3) Under construction Type IB for Group A-3, "11" shall be deleted and "5" shall be inserted. In addition, under construction Type VA for Group A-3, "2" shall be deleted and "1" shall be inserted.

(4) Under construction Type IB for Group A-4, "11" shall be deleted and "5" shall be inserted. In addition, under construction Type VA for Group A-4, "2" shall be deleted and "1" shall be inserted.

(5) The maximum number of stories and maximum allowable area for Group A-5, construction Types IIIB, IV, VA and VB shall be deleted.

(6) Under construction Type IB for Group B, "11" shall be deleted and "7" shall be inserted. In addition, under construction Type IIB for Group B, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type IIIA and IIIB for Group B, "5" and "4" shall be deleted and "4" and "3" shall be inserted, respectively.

(7) Under construction Type IB for Group F-1, "11" shall be deleted and "6" shall be inserted.

(8) Under construction Type IB for Group F-2, "11" shall be deleted and "7" shall be inserted.

(9) The maximum number of stories and maximum allowable area for Group H-2, construction Type VB shall be deleted and "NP" shall be inserted.

(10) Under construction Type IIIA for Group H-3, "4" shall be deleted and "3" shall be inserted.

(11) Under construction Type IIIA for Group H-4, "5" shall be deleted and "4" shall be inserted.

(12) The maximum number of stories and the maximum allowable area for Group I-3, construction Type VB shall be deleted and "NP" shall be inserted.

(13) Under construction Type IB for Group M, "11" shall be deleted and "6" shall be inserted. Under construction Type IIB for Group M, "4" shall be deleted and "2" shall be inserted. In addition, under construction Types IIIA and IIIB, "4" shall be deleted and "3" and "2" shall be inserted, respectively. Finally, under construction Type VA, "3" shall be deleted and "2" shall be inserted.

(14) Under construction Type IB for Group R-1, "11" shall be deleted and "9" shall be inserted. In addition, under construction Type IIB for Group R-1, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type IIIB for Group R-1, "4" shall be deleted and "3" shall be inserted.

(15) Under construction Type IB for Group R-2, "11" shall be deleted and "9" shall be inserted. In addition, under construction Type IIB for R-2, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type IIIB for Group R-2, "4" shall be deleted and "3" shall be inserted.

(16) Under construction Type IB for Group R-3, "11" shall be deleted and "4" shall be inserted. Under construction Type IIB for Group R-3, "4" shall be deleted and "3" shall be inserted. In addition, under construction Type IIIB for Group R-3, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type VB for Group R-3, "3" shall be deleted and "2" shall be inserted.

(17) Under construction Type IB for Group R-4, "11" shall be deleted and "4" shall be inserted. Under construction Type IIB for Group R-4, "4" shall be deleted and "3" shall be inserted. In addition, under construction Type IIIB for Group R-4, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type VB for Group R-4, "3" shall be deleted and "2" shall be inserted.

(18) Under construction Type IB for Group S-1, "11" shall be deleted and "5" shall be inserted. Under construction Type IIB for Group S-1, "3" shall be deleted and "2" shall be inserted. In addition, under construction Type IIIB for Group S-1, "3" shall be deleted and "2" shall be inserted. Finally, under construction Type VA for Group S-1, "3" shall be deleted and "2" shall be inserted.

(19) Under construction Type IB for Group S-2, "11" shall be deleted and "7" shall be inserted. Under construction Type IIB for Group S-2, "4" shall be deleted and "3" shall be inserted. In addition, under construction Type IIIB for Group S-2, "4" shall be deleted and "3" shall be inserted. Finally, under construction Type VA for Group S-2, "4" shall be deleted and "3" shall be inserted.

(20) Use Group U shall be deleted.

(21) At the end of the table, after "UL = Unlimited," "NP = Not permitted" shall be inserted.

ii. Section 507.1, Unsprinklered, one story, shall be deleted in its entirety.

iii. Section 507.3, Two-story, shall be amended as follows: In the first sentence, "building of Type I or Type II construction under " shall be inserted after "two-story."

7. Chapter 6, Types of Construction, shall be amended as follows:

i. In Table 602, Fire Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance<sup>a</sup>, "U" shall be deleted from the heading of the fifth column. In addition, in the same table, at Note b, "and Group U when used as an accessory to Group R3" shall be deleted.

ii. In Section 602.3, Type III, the last sentence shall be deleted.

8. Chapter 7, Fire-Resistance-Rated Construction, shall be amended as follows:

i. In Table 705.4, Fire Wall Fire Resistance Ratings, under the heading "Group," "U" shall be deleted.

ii. Section 705.5, Horizontal continuity, shall be deleted in its entirety. Section 707.6 of the 1996 BOCA National Building Code shall be inserted as follows: "Horizontal Continuity. Firewalls shall be made smoke tight at the junction of exterior walls. In exterior wall construction employing studs, the wall shall extend through the stud space to the exterior sheathing."

iii. Section 707.14.1, Elevator lobby, shall be amended as follows: In the first sentence, "In buildings having occupied floors greater than 75 feet above the lowest level of fire department vehicle access" shall be inserted before "elevators." In the same section, Exception 4 shall be deleted in its entirety.

9. Chapter 9, Fire Protection Systems, shall be amended as follows:

i. In Section 903.2.5, Group I, the exception shall be deleted and the following shall be inserted: "Exceptions

1. For other than buildings of construction Types IIIB and VB, an automatic fire sprinkler system installed in accordance with Section 903.3.1.2. shall be allowed in Group I-1 facilities.

2. An automatic fire sprinkler system shall not be required for Group I-4 child care facilities that are located at the level of exit discharge and that accommodate 100 or fewer children and in which each child care room has an exit door directly to the exterior."

ii. Section 903.2.8, Group R-2, shall be deleted in its entirety. Section 904.9 of the 1996 BOCA National Building Code shall be inserted as follows: "Group R-2: An automatic fire sprinkler system shall be provided throughout all buildings with an occupancy in Group R-2 in accordance with Section 903.3.1.1 or 903.3.1.2:

Exception: Buildings that do not exceed two stories including basements, which are not considered a story above grade, and with a maximum of 12 dwelling units per fire area. Each dwelling unit shall have at least one door opening to an exterior exit access that leads directly to the exits required to serve the dwelling unit.

iii. In Section 903.2.9, Group R-4, the reference to "Section 903.3.1.3" shall be deleted.

iv. Section 903.2.12.1, Stories and basements without openings, shall be deleted in its entirety and Section 904.10 of the 1996 BOCA National Building Code shall be inserted as follows: "Windowless story: An automatic fire sprinkler system shall be provided throughout every story or basement of all buildings where there is not provided at least one of the following types of openings:

1. An exterior stairway that conforms to the requirements of Section 1005.3.6, or an outside ramp that conforms to the requirements of Section 1003.3.4, leading directly to grade in each 50 linear feet (15240 mm) or fraction thereof of exterior wall in the story or basement, on at least one side of the building.

2. Openings entirely above the adjoining ground level totaling 20 square feet (1.9 m<sup>2</sup>) in each 50 linear feet (15240 mm) or fraction thereof of exterior wall in the story or basement, on at least one side of the building. Openings shall have a least dimension of not less than 22 inches (559 mm), and shall have a minimum net clear opening of 5 square feet (0.5 m<sup>2</sup>). Access to such openings from the exterior shall be provided to the fire department and such openings shall be unobstructed to allow fire fighting and rescue operations from the exterior.

Where openings in a story are provided on only one side and the opposite wall of such story is more than 75 feet (22860 mm) from such openings, the story shall be equipped throughout with an automatic fire sprinkler system or openings as specified herein shall be provided on at least two sides of the exterior walls of the story. If any portion of a basement is located more than 75 feet (22860 mm) from the openings required in this section, the basement shall be equipped throughout with an automatic sprinkler system.

Exception: Occupancies in Group R-3."

v. New Section 903.2.16, Automatic sprinkler system thresholds, shall be inserted as follows: "An automatic sprinkler system shall be required in accordance with Section 903.3.1.1 when the maximum area is exceeded for the following construction types of Groups

B, F-2, and S-2 according to table 903.2.16, Automatic Sprinkler System Thresholds. All others not listed shall follow the applicable requirements as set forth in the IBC/2000."

"Automatic Sprinkler System Thresholds

Group B			
Story	IIB Max. Area	IIIB Max. Area	VB Max. Area
1	36,000	*	*
2	72,000 (36,000 per floor)	*	*
3	99,360 (36,000 per floor)	99,360 (36,000 per floor)	*
Group F-2			
Story	IIB Max. Area	IIIB Max. Area	VB Max. Area
1	36,000	*	18,000
2	72,000 (36,000 per floor)	*	36,000 (18,000 per floor)
3	99,360 (36,000 per floor)	*	*
Group S-2a			
Story	IIB Max. Area	IIIB Max. Area	VB Max. Area
1	36,000	36,000	18,000
2	72,000 (36,000 per floor)	72,000 (36,000 per floor)	36,000 (18,000 per floor)
3	99,360 (36,000 per floor)	99,360 (36,000 per floor)	*

a. Exception—Open parking structures in accordance with Section 406.3

\*Requirements as set forth in the IBC/2000"

vi. Section 903.3.2, Quick response and residential sprinklers, shall be deleted in its entirety.

vii. In Section 905.2, Installation standards, Sections 915.4, 915.5, and 915.6 of the 1996 BOCA National Building Code shall be inserted as follows: "905.2.1 Piping design. The riser piping, supply piping and the water service piping shall be sized to maintain a residual pressure of at least 65 psi (448 kPa) at the topmost outlet of each riser while flowing the minimum quantities of water specified in Sections 905.2.1.1 and 905.2.1.2. The pipe size shall be based on the capacity of the automatic water supply system or, where an automatic water supply is neither required nor provided to maintain the residual pressure of 65 psi (448 kPa), the pipe size shall be based on a pressure of 150 psi (1,034 kPa) available at the fire department connection.

Exception: The residual pressure of 65 psi (448 kPa) is not required in buildings equipped throughout with an automatic sprinkler system in accordance with Section

903.3.1.1 and where the highest floor level is not more than 150 feet (45720 mm) above the lowest level of fire department vehicle access.

905.2.1.1 Riser sizing: The riser size shall be based on hydraulic calculations for a minimum flow of 500 gallons per minute (gpm) (1892 L/min.).

Exceptions:

1. Where only 1½-inch valves are provided, the riser(s) shall be sized to provide a minimum flow of 100 gpm (378 L/min.).

2. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the riser shall be sized to satisfy total demand.

3. For occupancies in Group B, I, R-1 or R-2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1, each riser shall be sized for a minimum flow of 250 gpm (945 L/min.).

4. Risers that are sized in accordance with the pipe schedule requirements of NFPA 14 listed in Chapter 35 are not subject to this requirement.

905.2.1.2 System pipe sizing: The system piping, including the horizontal or common feeder lines shall be sized for a minimum flow of 500 gpm (1,892 L/min.). Where more than one standpipe riser is required or provided, all common system piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1,250 gpm (4731 L/min.).

Exceptions

1. Where only 1½-inch valves are provided, the supply piping shall be sized for a minimum flow of 100 gpm (378 L/min.) for each riser, and the total shall not be required to exceed 500 gpm (1892 L/min.).

2. In buildings where limited area sprinkler systems are supplied with water from a common standpipe riser, the supply piping shall be sized for a minimum flow of 500 gpm (1892 L/min.) plus the sprinkler demand for the first riser, plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 1,250 gpm (4731 L/min.).

3. For occupancies in Group B, I, R-1 or R-2 in buildings that are equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, all common supply piping shall be sized for a minimum flow of 250 gpm (945 L/min.) for the first riser plus 250 gpm (945 L/min.) for each additional riser, and the total shall not be required to exceed 750 gpm (2838 L/min.).

905.2.2 Water supply: A water supply for fire department equipment shall be available to the building site. The water supply shall be capable of a minimum flow as required by Section 905.2.1.2 for a duration of 30 minutes.

905.2.2.1 Automatic water supply: An automatic water supply is required for all standpipe systems. The automatic water supply and supply piping shall be capable of delivering a flow of 500 gpm (1892 L/min.) at the residual pressure specified in Section 905.2.1 for a duration of 30 minutes.

Exceptions

1. In buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 where the highest floor is located not more than 150 feet (45720 mm) above the lowest level of fire department vehicle access, the automatic water supply is not required to exceed the requirements of NFPA 13 listed in Chapter 35.

2. Dry standpipe systems installed in open parking structures.

905.2.2.2 Interconnection: The required water supply shall be connected to the base of each standpipe riser. Where more than one standpipe riser is required, all risers shall be interconnected with a common supply line. An approved indicating valve shall be installed to permit individual risers to be taken out of service."

905.2.3 Control valves: Where a standpipe system riser also serves as the automatic sprinkler system riser in building required to have both systems or in buildings having both systems, sprinkler control valves shall be installed at each floor level at the connection to the riser.

viii. In Section 905.4, Location of class I standpipe hose connections, Items 1 and 2 shall be deleted in their entirety. Section 915.7 of the 1996 BOCA National Building Code shall be inserted as follows: "A standpipe hose connection shall be located at each floor level at every exit stairway, and on each side of the wall adjacent to the exit opening of a horizontal exit.

Exceptions

1. Where the floor areas adjacent to a horizontal exit are reachable from exit stairway outlets by a 30-foot (9,144 mm) hose stream from a nozzle attached to 100 feet (30,480 mm) of hose, a hose connection shall not be required at the horizontal exit.

2. Standpipe hose connections for systems required by Section 905.3.2. shall be permitted to be located only at exits such that all portions of the building floor area are not more than 200 feet (60,960 mm) from a hose connection or 200 feet (122 m) from the nearest point of fire department vehicle access."

ix. Section 905.4.2, Interconnection, shall be deleted in its entirety and Section 915.7.1 of the 1996 BOCA National Building Code shall be inserted as follows: "905.4.2 Location: At each floor level and not more than 5 feet (1,524 mm) above the floor, there shall be connected to each standpipe a 2½ inch hose connection with valves and threads compatible with the connections used by the local fire department."

x. Section 906.0, Portable Fire Extinguishers, shall be deleted in its entirety and new Section 906.0, entitled "Fire Department Connections," from Section 916.0 of the 1996 BOCA National Building Code shall be inserted as follows: "906.1 Required: All required water fire-extinguishing and standpipe systems shall be provided with a fire department connection in accordance with the applicable standards. Standpipes in buildings under construction or demolition shall conform to Section 3311."

#### Exceptions

1. Limited area sprinkler systems supplied from the domestic water system.

2. Where the local fire department approves a single connection for a large diameter hose of at least four inches (102 mm).

3. An automatic sprinkler system with less than 20 sprinklers.

906.2 Connections: Fire department connections shall be arranged in such a manner that the attachment to any one sprinkler connection will serve all sprinklers, and the attachment to any one standpipe connection will serve all standpipes within the building.

Exception: Fire protection systems in high rise buildings designed with a low zone and a high zone may be provided with a connection for each zone.

906.3 Location: Fire department connections shall be located and shall be visible on a street front or on a location approved by the fire department. Such connections shall be located so that immediate access is provided to the fire department. Fire department connections shall not be obstructed by fences, bushes, trees, walls, or any other similar object.

906.4 Height: Fire department connections shall not be less than 18 inches (457 mm) and more than 42 inches (1,067 mm) in elevation, measured from the ground level to the centerline of the inlets.

906.5 Projection: Where the fire department connection will otherwise project beyond the property line or into the public way, a flush-type fire department connection shall be provided.

906.6 Hose thread: Hose thread in the fire department connection shall be uniform with that used by the local fire department.

906.7 Fittings: Fire department inlet connection shall be fitted with check valves, ball drip valves and plugs with chains or frangible clips.

906.8 Signs: A metal sign with raised letters at least one inch (25 mm) in height shall be mounted on all fire department connections serving sprinklers or standpipes. Such signs shall read "Automatic Sprinklers" or "Standpipes," or both, as applicable."

xi. Sections 907.2.6 and 907.2.8 are amended as indicated at N.J.A.C. 5:23-3.17(a)1i(5).

xii. Section 907.2.10.1.4, Additions, alterations, or repairs to Group R, shall be deleted in its entirety.

xiii. In Section 907.2.10.3, Interconnection, Exception 2 shall be deleted in its entirety.

xiv. In Section 909.18.8.3, Reports, "The report shall be reviewed by the registered design professional and, when satisfied that the design intent has been achieved, the responsible registered design professional shall seal, sign, and date the report" shall be deleted.

10. Chapter 10, Means of Egress, shall be amended as follows:

i. In Section 1003.2.12.1, delete the exception and insert the following text: "For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, porches, balconies or raised floor surfaces located more than 30 inches (762 mm) above the floor or grade below shall have guards not less than 36 inches (914 mm) in height. Open sides of stairs with a total rise of more than 30 inches (762 mm) above the floor or grade below shall have guards not less than 34 inches (864 mm) in height measured vertically from the nosing of the treads."

ii. In Section 1003.2.12.2, at the end of the second sentence, insert the following text: "except for occupancies of Group R-3, and within individual dwelling units in occupancies of Group R-2."

iii. In Section 1003.3.1.3.5, Security grilles, "In Groups B, F, M, and S" shall be deleted and "horizontal" shall be capitalized.

iv. In Section 1003.3.1.4, in Exception 1, the text "more than three stories high" shall be deleted.

v. Section 1003.3.1.8, Locks and latches, shall be amended as follows: In Exception 2, "Group A having an occupant load of 300 or less" shall be deleted. In the same section, Exception 5 shall be inserted as follows: "5. Key operation shall be permitted from a dwelling unit provided that the key cannot be removed from the lock when the door is locked from the side from which egress is made."

vi. In Section 1003.3.1.8.2, Delayed egress locks, "E" shall be deleted.

vii. In Section 1003.3.3.3, Exception 5, change the maximum riser height from "7.75 inches (197 mm)" to "8.25 inches (210 mm)" and change the minimum tread depth from "10 inches (254 mm)" to "9 inches (229 mm)."

viii. In Section 1003.3.3.7, delete the exception and insert the following text: "Exception: For occupancies in Group R-3, and within individual dwelling units in occupancies in Group R-2, circular stairways shall have a tread depth at a point not more than 12 inches (305 mm) from the side where the treads are narrower of not less than 11 inches (279 mm) and the minimum depth of any tread shall not be less than 9 inches (229 mm)."

ix. In Section 1003.3.3.8, add the following text: "Exception: For occupancies of Group R-3, and within individual dwelling units of Group R-2, winders are permitted, provided that the width of the tread at a point not more than 12 inches (305 mm) from the side where the treads are narrower is not less than 9 inches (229 mm) and the minimum width of any tread is not less than 6 inches (152 mm). The continuous handrail required by Section 1003.3.3.11 shall be located on the side where the tread is narrower."

x. In Section 1003.3.3.11, delete Exception 4, and insert the following text: "4. For occupancies of Group R-3, and within the individual dwelling units of Group R-2, handrails shall not be required for stairways with fewer than three risers."

xi. In Section 1003.3.3.11.1 add the following text: "Exception: For occupancies of Group R-3, and within individual dwelling units in occupancies of Group R-2, handrails shall have a minimum height of 30 inches and a maximum height of 38 inches measured vertically from the nosing of the treads."

xii. After Section 1003.3.3.11.3, add the following text: "Exception: For occupancies of Group R-3, and within individual dwelling units in occupancies of Group R-2, the handgrip portion of handrails shall have a maximum circular cross section of 2.625 inches (67 mm). Other handrail shapes that provide an equivalent grasping surface are permissible."

xiii. In Section 1004.2.2.1, Two exit or exit access doorways, the last sentence of Exception 1 shall be deleted.

xiv. Section 1004.2.3, Egress through intervening spaces, shall be deleted in its entirety. Section 1006.2.1 of the 1996 BOCA National Building Code shall be inserted as follows: "Egress through adjoining spaces: Egress from a room or a space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas are accessory to the area served; are not a high-hazard occupancy; and provide a discernable path of travel to an exit. A maximum of one exit access shall be permitted to pass through a kitchen, storeroom, restroom, closet or similar space provided that a passage through such space is not the only means of access to an exit. An exit access shall not pass through a room subject to locking. Means of egress from dwelling units or sleeping areas shall not lead through other dwelling units or sleeping areas and shall not lead through toilet rooms or bathrooms."

xv. In Section 1004.3.2, Corridors, "and passageways" shall be inserted after "corridors."

xvi. In Table 1004.3.2.1, Corridor Fire Resistance Rating, under the heading "Occupancy," "U" shall be deleted from the third row.

xvii. In the title of Section 1004.3.2.2, "and passageway" shall be inserted after "Corridor." In addition, in the first sentence, "or passageway" shall be inserted after "corridor."

xviii. Section 1004.3.2.3, Dead ends, shall be amended as follows: In the first sentence "and passageways" shall be inserted after "corridors." In Exception 1, "or passageway" shall be inserted after "corridor." In Exception 2, "and passageways" shall be inserted after "corridors." In Exception 3, "or passageway" shall be inserted after each "corridor."

xix. In Table 1005.2.2, Buildings with One Exit, under the heading "Occupancy," "U" shall be deleted from the first row.

xx. In Section 1005.3.2, Vertical exit enclosures, Exception 1 shall be deleted and the following shall be inserted: "1. In other than Group H and I occupancies, a stairway connecting not more than two floor levels, one of which is the level of exit discharge, which serves an occupant load of not more than 10 or serves four or fewer dwelling units is not required to be enclosed." In the same section, Exception 8 shall be deleted.

xxi. Section 1005.3.5, Horizontal exits, shall be deleted in its entirety. Section 1019.0 of the 1996 BOCA National Building Code shall be inserted as follows: "Horizontal Exits

1005.3.5 General: Horizontal exits shall be accepted as an approved exit element of a required means of egress. The connection between an area of a building that the horizontal exit serves and the area of refuge as herein required shall be accomplished by protected openings in a fire-resistance rated wall, or by an open-air balcony or bridge.

1005.3.5.1 Separation: The separation between buildings or areas of refuge connected by a horizontal exit shall be provided by at least a two-hour fire-resistance rated firewall or fire separation assembly with approved opening protectives complying with Chapter 7 and Table 602.

1005.3.5.2 Doors: All doors shall swing in the direction of egress travel. Where the horizontal exit serves as an exit from both sides of the wall, there shall be adjacent openings with swinging fire doors opening in opposite directions.

Exception: Horizontal sliding doors complying with Section 1003.3.1.3.3.

1005.3.5.3 Area of refuge: The discharge area of a horizontal exit shall be either public areas or spaces occupied by the same tenant, and each such area of refuge shall be adequate to hold the total occupant load of both connected areas. The capacity of areas of refuge shall be computed on a minimum net floor area allowance for each occupant to be accommodated therein, not including areas of stairways, elevators and other shafts or courts, as follows:

1. 30 square feet (3 m<sup>2</sup>) per patient for hospitals and nursing homes.
2. Six square feet (0.56 m<sup>2</sup>) per occupant on stories not housing patients confined to a bed or litter in an occupancy in Group I-2.
3. Six square feet (0.56 m<sup>2</sup>) per occupant in an occupancy in Group I-3.
4. Three square feet (0.28 m<sup>2</sup>) in all other cases.

1005.3.5.4 Egress from area of refuge: The path of egress travel from the horizontal exit through the area of refuge to another exit shall be continuously available. In other than occupancies in Group I-3, there shall be at least one exit on each side of the horizontal exit, which is not a horizontal exit. Any area of refuge not having access to an exit, other than a horizontal exit, shall be considered as part of an adjoining area of refuge with such exit. In the area(s) served by the horizontal exit, the length of exit access travel distance to the horizontal exit or another exit shall not exceed the requirements of Section 1004.2.4."

xxii. Section 1009.1, General, shall be amended as follows: In the second sentence, "Basements and" shall be deleted and "sleeping" shall be capitalized.

11. Chapter 11, Accessibility, shall be deleted in its entirety.

12. Chapter 13, Energy Efficiency, shall be deleted in its entirety.

13. Chapter 15, Roof Assemblies and Rooftop Structures, shall be amended as follows:

i. In Table 1505.1, Minimum Roof Covering Classification for Types of Construction, Note a shall be deleted in its entirety. In addition, at Note b, "and U occupancies" shall be deleted from the first sentence.

14. Chapter 16, Structural Design, shall be amended as follows:

i. Section 1603.3, Live loads posted, shall be deleted in its entirety.

ii. Section 1603.4, Occupancy permits for changed loads, shall be deleted in its entirety.

iii. New Section 1604.9, General structural integrity, from Section 1604.2 of the 1996 BOCA National Building Code, shall be inserted as follows: "The require-

ments for general structural integrity shall be in accordance with Section 1.4 of ASCE 7 listed in Chapter 35."

iv. In Table 1607.1, Minimum Uniformly Distributed Live Loads and Minimum Concentrated Live Loads, at Note g, "building official" shall be deleted and "design professional" shall be inserted.

v. Section 1607.9, Reduction in live loads, shall be amended as follows: In the first sentence, "and applied" shall be inserted after "reduced." After the first sentence, "The method chosen shall be applied throughout the building." shall be inserted.

vi. In Section 1607.9.1.3, Special occupancies, "or educational occupancies" shall be inserted after "public assembly occupancies."

vii. In Section 1607.9.2, Alternate floor live load reduction, Item 1, "or Group E" shall be inserted after "Group A."

viii. Section 1614.1.1, Addition to existing building, shall be deleted in its entirety.

ix. Section 1614.2, Change of Occupancy, shall be deleted in its entirety.

x. Section 1614.3, Alterations, shall be deleted in its entirety.

xi. In Section 1621.1.7, Component anchorage #1, Item 1 shall be deleted in its entirety.

xii. In Section 1621.3.14, Elevator design requirements, at the end of the section, the following shall be inserted: "The scope of Part XXIV of ASME A17.1, entitled "Elevator Safety Requirements for Seismic Risk Zone 2 or Greater," is deleted."

xiii. In Table 1622.2.5(2), Importance Factor (*I*) and Seismic Use Group Classification for Nonbuilding Structures, at Notes H-II and H-III, "authority having jurisdiction" shall be deleted and "construction official" shall be inserted.

15. Chapter 17, Structural Tests and Special Inspections, shall be amended as follows:

i. In Section 1701.1, Scope, "shall apply to Class I buildings and" shall be inserted after "chapter."

ii. Section 1702.1, General, shall be amended as follows: In the title, "/Special Inspector" shall be inserted after "Agency." In the first sentence, "or design professional acting as the approved agency" shall be inserted after "agency."

iii. Section 1703.1, Approved agency, shall be amended as follows: In the first sentence, "Upon the request of the construction official" shall be inserted before "An." In the same sentence, "building official" shall be deleted and "construction official" shall be

inserted and "applicable" shall be deleted and "following" shall be inserted.

iv. In Section 1703.7, Evaluation and follow-up inspection, "in accordance with N.J.A.C. 5:23-4.26" shall be inserted after the second "assembly."

v. Section 1704.1, General, shall be amended as follows: In the first sentence, "of Class 1 buildings only" shall be inserted after "construction." In the second sentence, "the registered design professional" shall be deleted and "person" shall be inserted.

vi. Section 1704.1.2, Report requirement, shall be amended as follows: In the second sentence, "building official" shall be deleted and "construction official" shall be inserted and "registered design professional" shall be deleted and "person" shall be inserted. In the same sentence, "in accordance with N.J.A.C. 5:23-2.21(c)" shall be inserted after "charge."

vii. In Section 1704.3, Steel construction, "the on-site erection of" shall be inserted after "for."

viii. In Table 1704.3, Required Verification and Inspection of Steel Construction, Items 1, 3, and 4 shall be deleted.

ix. In Section 1704.5, Masonry construction, "in Seismic Design Category D" shall be inserted after the second "construction." In the same section, in Exception 2, the reference to "Table 1805.5(1)" shall be deleted.

x. Section 1704.6, Wood construction, shall be deleted in its entirety.

xi. Section 1704.9, Pier foundations, shall be deleted in its entirety.

xii. In Section 1705.1, Scope, "for Seismic Design Category D buildings" shall be inserted after "provided."

xiii. Section 1706, Quality Assurance for Wind Regulations, shall be deleted in its entirety.

xiv. Sections 1708.1, Masonry, 1708.1.1, Empirically designed masonry and glass unit masonry in nonessential facilities, 1708.1.2, Empirically designed masonry and glass unit masonry in essential facilities, 1708.1.3, Engineered masonry in nonessential facilities, 1708.1.4, Engineered masonry in essential facilities, 1708.3, Reinforcing and pre-stressing steel, 1708.4, Structural tests, and 1708.5, Mechanical and electrical equipment, shall be deleted in their entirety.

xv. Section 1709, Structural Observations, shall be deleted in its entirety.

16. Chapter 18, Soils and Foundations, shall be amended as follows:

i. In the title of Section 1802.2.6, "Seismic Design Category C" shall be deleted and "Seismic Design Category D" shall be inserted. In the first sentence, the reference to "Seismic Design Category C" shall be deleted and "Seismic Design Category D" shall be inserted.

ii. New Section 1802.2.8 from Section 1802.1 of the 1996 BOCA National Building Code shall be inserted as follows: "Building Height: For all buildings that are more than three stories or 40 feet (12,192 mm) in height, the building official shall request soil tests."

iii. Section 1802.4.1, Exploratory boring, shall be amended as follows: After the first sentence, the following sentence from Section 1802.1 of the 1996 BOCA National Building Code shall be inserted: "There shall be at least one exploratory boring to rock or to an adequate depth below the load-bearing strata for every 2,500 square feet (232.5 mm) of built-over area, and such additional tests as the code official requires."

iv. In Section 1802.6, Reports, "soil borings are required" shall be inserted after "Where."

v. In Section 1805.2.1, Frost protection, "400 square feet (37 m<sup>2</sup>)" shall be deleted and "100 square feet (9.25 m<sup>2</sup>)" shall be inserted.

vi. In Section 1806.3.1, Floors, "60" shall be deleted and "6" shall be inserted.

vii. New Section 1806.5 from Section 1813.8 of the 1996 BOCA National Building Code shall be inserted as follows: "1806.5 Erosion protection: Where water impacts the ground from the edge of the roof, downspout, scupper or other rain water collection or diversion device, provisions shall be made to prevent soil erosion and direct the water away from the foundation."

viii. Section 1807.2.6, Spacing, shall be deleted in its entirety and Section 1816.9 of the 1996 BOCA National Building Code shall be inserted as follows: "Spacing: The minimum center-to-center spacing of piles shall not be less than twice the average diameter of a round pile, nor less than 1 $\frac{3}{4}$  times the diagonal dimension of a rectangular pile. Where driven to or penetrating into rock, the spacing shall not be less than 24 inches (610 mm). Where receiving principal support at the end from materials other than rock, or through friction resistance, the spacing shall not be less than 30 inches (762 mm) except that for piles having enlarged bases formed either by compacting concrete or driving a pre-cast base, the minimum center-to-center spacing shall be 4 $\frac{1}{2}$  feet (1,372 mm). The spacing of piles shall be such that the average load on the supporting strata will not exceed the safe load-bearing value of those strata as determined by test borings or other approved methods."

ix. In Section 1807.2.23.2, Seismic Design Category D, E, or F, the references to "Seismic Design Categories E and F" shall be deleted.

x. Section 1808.2.2.1, Materials, shall be deleted in its entirety and Section 1821.2.2 of the 1996 BOCA National Building Code shall be inserted as follows: "All concrete shall have a 28-day specified compressive strength ( $f'_c$ ) of not less than 4,000 psi (27579 kPa)."

17. Chapter 21, Masonry, shall be amended as follows:

i. In Figure 2111.1, Fireplace and Chimney Details, in the plan view illustration, Letter B is improperly dimensioned. The text of Section 2111.10 shall prevail.

18. Chapters 27, Electrical; 28, Mechanical Systems; and 29, Plumbing, shall be deleted in their entirety.

19. Chapter 30, Elevators and Conveying Systems, shall be amended as follows:

i. In Section 3001.1, Scope, "and where applicable N.J.A.C. 5:23-12" shall be inserted after "chapter."

ii. In Section 3001.2, Referenced standards, "this code" shall be deleted and "these rules" shall be inserted. In the same section, "with the exception of Rule 1206.1h, Part XX and Part XXI" shall be inserted after "ASME A17.1" and "ASME A18.1" shall be inserted after "ASME A90.1." In addition, at the end of the section, the following shall be inserted: "The scope of Part XXIV of ASME A17.1, entitled "Elevator Safety Requirements for Seismic Risk Zone 2 or Greater," is deleted."

iii. New Section 3002.4.1, Elevators in newly constructed multiple dwellings, shall be inserted as follows: "When an elevator is installed in a newly-constructed multiple dwelling, the elevator shall meet the dimensional requirements above."

iv. New Section 3003.3, Standardized fire service keys, shall be inserted as follows: "All new elevators shall be equipped to operate with a standardized fire service key."

v. In Section 3004.4, Closed vents, "annealed glass" shall be deleted and "plain glass" shall be inserted.

vi. In Section 3004.5, Plumbing and mechanical systems, the exception shall be deleted.

20. Chapter 31, Special Construction, shall be amended as follows:

i. New Section 3102.3.2, which shall be the text of Section 3104.6 of the 1996 BOCA National Building Code, shall be inserted as follows: "Certification: An affidavit or affirmation shall be submitted to the code official and a copy retained on the premises on which the tent or air-supported structure is located. The affidavit or affirmation shall attest to the following

information relative to the flame-resistance of the fabric:

1. Names and addresses of the owners of the tent or air-supported structure.

2. Date the fabric was last treated with flame-resistant solution.

3. Trade name or kind of chemical used in treatment

4. Name of person or firm treating the material.

5. Name of testing agency and test standard by which the fabric was tested."

ii. Section 3103.1.1 shall be deleted in its entirety and the following shall be inserted:

"(1) Temporary structures: A construction permit is required for the erection, operation or maintenance of all temporary structures (excluding tents and tensioned membrane structures) covering an area in excess of 120 square feet, including all connecting areas or spaces with a common means of egress or entrance, or which are used or intended to be used for gatherings of 10 or more persons;

(2) Tents with appurtenances: A construction permit is required for the erection, operation or maintenance of all tents or tensioned membrane structures of any size if they contain appurtenances such as platforms or electrical equipment;

(3) Tents without appurtenances: No permit is required for the erection, operation or maintenance of any tent or tensioned membrane structure without appurtenances if the tent or structure is no more than 900 square feet in area and no more than 30 feet in any dimension (excluding canopies), whether it is one unit or composed of multiple units. Tents used exclusively for recreational camping purposes shall be exempt from the above requirements.

(4) A temporary greenhouse, also called a "hoop-house" or "polyhouse," used exclusively for the production or storage of live plants, shall be exempt from the permit requirements of the Uniform Construction Code if it meets the following criteria:

(A) There is no permanent anchoring system or foundation;

(B) There is no storage, temporary or otherwise, of solvents, fertilizers, gases, or other chemical or flammable materials;

(C) The structure is no wider than 31 feet and there is an unobstructed path of no greater length than 150 feet from any point to a door or fully accessible wall area; and

(D) The covering of the structure is of a material no greater than six mils (152.4 micrometers) in

thickness, conforming to NFPA 701 standard, that yields approximately four pounds of maximum impact resistance to provide egress through the wall.

(5) The provisions of the Uniform Construction Code at N.J.A.C. 5:23-3.14(b)20ii(4) notwithstanding, if a temporary greenhouse contains any device subject to the electrical subcode or any mechanical equipment subject to the mechanical subcode, a permit shall be required for the device, system or fixture only. If the temporary greenhouse is connected to a potable water system, a permit shall be required for the backflow prevention devices only.

iii. Section 3109, Swimming Pool Enclosures, shall be deleted in its entirety and the following shall be inserted:

“3109

#### SWIMMING POOLS, SPAS AND HOT TUBS

3109.1 General. The provisions of this section shall control the design and construction of swimming pools, spas and hot tubs .

3109.2 Definitions. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

#### BARRIER.

A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

#### HOT TUB.

See “Swimming pool.”

#### IN-GROUND POOL.

See “Swimming pool.”

#### RESIDENTIAL.

That which is situated on the premises of a detached one- or two-family dwelling or a one-family townhouse not more than three stories in height.

#### SPA, NONPORTABLE.

See “Swimming pool.”

#### SWIMMING POOL.

Any structure intended for swimming or recreational bathing that contains water, provided that these regulations shall not be applicable to any such pool less than 24 inches (610 mm) deep or having a surface area less than 250 square feet (23.25 m<sup>2</sup>). This includes in-ground, aboveground and on-ground swimming pools, hot tubs and spas.

#### SWIMMING POOL, INDOOR.

A swimming pool that is totally contained within a structure and surrounded on all four sides by walls of said structure.

#### SWIMMING POOL, OUTDOOR.

Any swimming pool, which is not an indoor pool.

3109.3 In-ground public pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-1 as listed in Chapter 35.

3109.4 In-ground Residential pools. In-ground residential pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Chapter 35.

3109.5 Permanently installed public spas and hot tubs. Permanently installed public spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-2 as listed in Chapter 35.

3109.6 Portable residential spas and hot tubs. Portable residential spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Chapter 35.

3109.7 Enclosures for private swimming pools, spas and hot tubs. The provisions of this section shall control the design of barriers for residential swimming pools, spas and hot tubs.

3109.7.1 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1,219 mm) above grade measured on the side of the barrier, which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be two inches (51 mm) measured on the side of the barrier, which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be four inches (102 mm).

2. Openings in the barrier shall not allow passage of a four-inch-diameter (102 mm) sphere.

3. Solid barriers, which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1,143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1,143 mm) or more, spacing between vertical members shall not exceed four inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

6. Maximum mesh size for chain link fences shall be a 1.25-inch (32 mm) square unless the fence is provided with slats fastened at the top or the bottom that reduce the openings to not more than 1.75 inches (44 mm).

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches (44 mm).

8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1,372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

8.1. The release mechanism shall be located on the pool side of the gate at least three inches (76 mm) below the top of the gate, and

8.2. The gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then:

9.1. The ladder or steps shall be surrounded by a barrier that meets the requirements of Section AG105.2, Items 1

through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a four-inch-diameter (102 mm) sphere.

3109.8 Barrier exceptions. Spas or hot tubs with a safety cover that complies with ASTM F 1346, as listed in Chapter 35, shall be exempt from the provisions of this section.

3109.9 Enclosures for public swimming pools, spas and hot tubs. Public swimming pools shall be completely enclosed by a fence at least four feet (1,290 mm) in height or a screen enclosure. Openings in the fence shall not permit the passage of a four-inch (102 mm) diameter sphere. The fence or screen enclosure shall be equipped with self-closing and self-latching gates."

21. Chapter 32, Encroachments into the Public Rights of Way, shall be amended as follows:

i. In Section 3202.1.2, Vaults and other enclosed spaces, "authority or legislative body having jurisdiction" shall be deleted and "Uniform Construction Code (N.J.A.C. 5:23)" shall be inserted.

ii. In Section 3202.3.4, Pedestrian walkways, "authority having jurisdiction" shall be deleted and "the construction official" shall be inserted.

iii. In Section 3202.4, Temporary encroachments, "local authority having jurisdiction" shall be deleted and "municipality" shall be inserted.

22. Chapter 33, Safeguards During Construction, shall be amended as follows:

i. Sections 3303.1, Construction documents; 3303.2, Pedestrian protection; 3303.4, Vacant lot; 3303.5, Water accumulation; and 3303.6, Utility connections, shall be deleted in their entirety.

ii. In the last sentence of Section 3309.1, Where required, "On construction sites," shall be inserted before "All." In addition, in the last sentence, "Section 906" shall be deleted and "the International Fire Code" shall be inserted.

23. Chapter 34, Existing Structures, shall be deleted in its entirety.

24. Chapter 35, Referenced Standards, shall be amended as follows:

i. Under the subheading "ASME," the following reference shall be inserted: "ASME A18.1-1999, Safety Standard for Platform Lifts and Stairway Chairlifts, with A18.1a-2001 addenda."

ii. Under the subheading "NFPA," "NFPA 13-96, Installation of Sprinkler Systems; NFPA 13D-96, Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes; and NFPA 13R-96, Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height" shall be deleted and "NFPA 13-99 Installation

of Sprinkler Systems; NFPA 13D-99, Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes; and NFPA 13R-99, Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height” shall be inserted. In addition, “NFPA 20-99, Installation of Centrifugal Fire Pumps” shall be inserted after “NFPA 17A-98, Wet Chemical Extinguishing Systems.”

iii. Under the subheading “NSPI” the following NSPI Standards shall be inserted: “ANSI/NSPI-1, Permanently Installed Public In-ground Public Pools, ANSI/NSPI-2, Permanently Installed Public Spas, ANSI/NSPI-3, Standard for Permanently Installed Residential Spas, ANSI/NSPI-4, Standard for Residential Above-Ground/One-Ground Swimming Pools, and ANSI/NSPI-5, Standard for Residential In-ground Swimming Pools.”

25. The Appendices shall be amended as follows:

i. Appendix A, Employee Qualifications; Appendix B, Board of Appeals; Appendix C, Group U-Agricultural Buildings; Appendix D, Fire Districts; Appendix E, Supplementary Accessibility Requirements; Appendix F, Rodent Proofing; and Appendix G, Flood Resistant Construction, shall be deleted in their entirety.

ii. In Appendix H, at the beginning of the Appendix, the sentence, “The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance,” shall be deleted in its entirety.

(1) In Appendix H, Section H101.2, Signs exempt from permits, shall be deleted in its entirety.

(2) In Appendix H, Section H105.2, Permits, drawings and specifications, “as provided in Chapter 1” shall be deleted and “as provided in N.J.A.C. 5:23-2.14” shall be inserted.

(3) In Appendix H, Section H106.1, Illumination, “ICC Electrical Code” shall be deleted and “electrical subcode” shall be inserted.

(4) In Appendix H, Section H106.2, Electrical service, “ICC Electrical Code” shall be deleted and “electrical subcode” shall be inserted.

iii. Appendix I, Patio Covers, and Appendix J, Supplementary Accessibility Requirements for Qualified Historic Buildings and Facilities, shall be deleted in their entirety.

Amended by R.1985 d.154, effective April 1, 1985 (operative July 1, 1985.)

See: 17 N.J.R. 239(a), 17 N.J.R. 810(a).

(a)2 added; subsection (c) added.

Correction: N.J.A.C. 5:23-3.14(c)5 was incorrect in adoption.

See: 17 N.J.R. 1409(a).

Amended by R.1985 d.324, effective July 1, 1985.

See: 17 N.J.R. 861(c), 17 N.J.R. 1646(a).

(b)3i: amended text.

Amended by R.1986 d.380, effective September 22, 1986.

See: 18 N.J.R. 1235(a), 18 N.J.R. 1931(a).

Substantially amended.

Amended by R.1987 d.374, effective September 21, 1987.

See: 19 N.J.R. 1024(a), 19 N.J.R. 1720(b).

Model subcode revisions.

Amended by R.1988 d.270, effective June 20, 1988.

See: 20 N.J.R. 575(a), 20 N.J.R. 1344(a).

Added (a)3 and (c).

Amended by R.1990 d.253, effective May 21, 1990.

See: 22 N.J.R. 909(b), 22 N.J.R. 1554(a).

Text added at (c)2ii, 4, 5 and 7.

Amended by R.1990 d.325, effective July 2, 1990.

See: 21 N.J.R. 1654(a), 22 N.J.R. 2001(a).

Text added at (b)5xii(1) to conform to Fire Code.

Amended by R.1990 d.507, effective October 15, 1990.

See: 22 N.J.R. 2208(a), 22 N.J.R. 3214(a).

Text conformed to BOCA National Code/1990.

Amended by R.1990 d.558, effective November 19, 1990.

See: 22 N.J.R. 1969(b), 22 N.J.R. 3483(a).

Conditional exemption for hoopouses or polyhouses added.

Amended by R.1991 d.325, effective July 1, 1991.

See: 23 N.J.R. 805(a), 23 N.J.R. 2046(a).

Article 26 amended at (b)14.

Amended by R.1991 d.429, effective August 19, 1991.

See: 23 N.J.R. 1487(a), 23 N.J.R. 2501(a).

In (a), added 3. Added (c).

Amended by R.1992 d.244, effective June 15, 1992.

See: 24 N.J.R. 1147(a), 24 N.J.R. 2243(a).

Text added at (b)10v through viii.

Amended by R.1993 d.662, effective December 20, 1993.

See: 25 N.J.R. 3891(a), 25 N.J.R. 5918(a).

Amended by R.1995 d.144, effective March 20, 1995 (operative July 1, 1995).

See: 26 N.J.R. 2698(a), 26 N.J.R. 3524(a), 27 N.J.R. 1180(a).

Amended by R.1995 d.477, effective September 5, 1995.

See: 27 N.J.R. 1717(a), 27 N.J.R. 3328(a).

Added (b)2v.

Amended by R.1998 d.332, effective July 6, 1998.

See: 30 N.J.R. 1377(a), 30 N.J.R. 2421(b).

Rewrote the section.

Amended by R.2000 d.492, effective December 18, 2000.

See: 32 N.J.R. 3219(a), 32 N.J.R. 4437(b).

Rewrote (b)25.

Amended by R.2001 d.127, effective April 16, 2001.

See: 33 N.J.R. 392(a), 33 N.J.R. 1195(a).

In (a)9, added new ix and recodified former ix through xiii as new x through xiv.

Amended by R.2001 d.368, effective October 15, 2001.

See: 33 N.J.R. 1990(a), 33 N.J.R. 3673(b).

In (b)9, inserted a new ix and recodified former ix through xiv as x through xv.

Amended by R.2001 d.369, effective October 15, 2001.

See: 33 N.J.R. 2365(a), 33 N.J.R. 3674(a).

In (b), substituted “seven” for “7½ (2335 mm)” in 2vi, rewrote 10, added a new 17, and recodified former 17 through 26 as 18 through 27.

Amended by R.2002 d.215, effective July 1, 2002.

See: 34 N.J.R. 1078(a), 34 N.J.R. 2312(a).

In (b)22, inserted new ii and recodified existing ii through xvii as iii through xviii.

Administrative correction.

See: 34 N.J.R. 3771(b).

Amended by R.2003 d.187, effective May 5, 2003.

See: 34 N.J.R. 4248(a), 35 N.J.R. 1939(c).

Rewrote the section.

Amended by R.1981 d.132, effective May 7, 1981.

See: 13 N.J.R. 121(a), 13 N.J.R. 258(d).

Amended by R.1983 d.12, eff. February 7, 1983, operative February 22, 1983.

See: 14 N.J.R. 132(a), 15 N.J.R. 141(c).

Added (a)2 and (c).

Amended by R.1984 d.314, eff. August 6, 1984.

See: 16 N.J.R. 1139(a), 16 N.J.R. 2084(b).

This section was substantially amended.

Administrative correction.

See: 35 N.J.R. 2864(b).

Amended by R.2003 d.351, effective September 2, 2003.

See: 35 N.J.R. 1177(a), 35 N.J.R. 4051(a).

In (b)9, added xi; recodified existing xi to xiii as xii to xiv.

Amended by R.2003 d.420, effective November 3, 2003.

See: 34 N.J.R. 4248(a), 35 N.J.R. 5073(a).

Rewrote (b).

Administrative correction.

See: 36 N.J.R. 3525(c).

Amended by R.2004 d.423, effective November 15, 2004.

See: 36 N.J.R. 3004(a), 36 N.J.R. 5090(a).

In (b)5, added ii.

Amended by R.2005 d.4, effective January 3, 2005.

See: 36 N.J.R. 4049(a), 37 N.J.R. 47(a).

In (b)19, added new iv and recodified former iv and v as v and vi.

Administrative correction.

See: 37 N.J.R. 502(b), 674(a).

#### Case Notes

Set back provisions of borough zoning ordinance controlled conflicting state building code provisions. *Pfeuffer v. Sculco*, 242 N.J.Super. 181, 576 A.2d 309 (A.D.1990).

### 5:23-3.15 Plumbing subcode

(a) Rules concerning subcode adopted are as follows:

1. Pursuant to authority of P.L. 1975, c.217, as modified by P.L. 1996, c.53, the Commissioner hereby adopts the Model Code of the National Association of Plumbing Heating-Cooling Contractors, known as "The National Standards Plumbing Code/2003," as the plumbing subcode for New Jersey.

i. Copies of this code may be obtained from the sponsor at: NAPHCC, P.O. Box 6808, Falls Church, VA 22046.

2. "The National Standard Plumbing Code/2003," including appendices, may be known and cited as "the plumbing subcode."

(b) The following pages, chapters, sections or appendices of the plumbing subcode are amended as follows:

1. The section entitled "Administration," comprising sections ADM 1.1 through ADM 1.13, is deleted in its entirety.

2. Chapter 1 of the plumbing subcode, entitled "Definitions," is amended as follows:

i. Delete the term and definition of "Adopting Agency."

ii. Amend the definition of "approved" as follows: delete "Sec. 3.12" and insert "N.J.A.C. 5:23-3.7."

iii. Delete the definition of "Authority Having Jurisdiction" and insert the following: "Unless otherwise defined herein, or unless the context clearly indicates otherwise, the term "authority having jurisdiction" for purposes of the plumbing subcode, shall mean the "plumbing subcode official."

iv. The definition of the term "building" is deleted, and substitute in lieu thereof, the definition of the term "building" found in N.J.A.C. 5:23-1.4.

v. In the definition of "Building Classification" delete "authority having jurisdiction" and insert "building subcode" at N.J.A.C. 5:23-3.14.

vi. The term and definition of "code" are deleted.

vii. The term and definition of "family" are deleted.

viii. The term and definition of "nuisance" are deleted.

ix. Add the following new definition after the definition of Swimming Pool: Swimming Pool, Public: A swimming pool located on any property other than a one or two family residential property and including, but not limited to, swimming pools open to the use of members, residents or the public.

3. Chapter 2 of the plumbing subcode, entitled "General Regulations," is amended as follows:

i. Section 2.5 is deleted in its entirety.

ii. In Section 2.9.3 delete "Building Code or as required by the proper Authority Having Jurisdiction" and insert "building subcode."

iii. Section 2.12 is amended to delete subparagraph e.

iv. In Section 2.16, at Item 1, insert the number "42" in the blank space provided. Additionally, add the following sentence: "Combination domestic/fire water service piping shall be installed such that the minimum earth cover is 42 inches or the top of the pipe is 12 inches below the frost depth of the locality, whichever is greater. Limited-area sprinkler systems installed in accordance with Section 903.3.5.1.1 of the building subcode, shall be installed such that the minimum earth cover is 42 inches." In the same section, at Item 2, insert the number "24" in the blank space provided.

v. Section 2.19.1 is amended to delete the blank and the words "feet of any property line of the premises, or other."

vi. Section 2.19.2 is amended to delete the words "the Health Department or other agency having jurisdiction" and substitute in lieu thereof "The New Jersey Department of Environmental Protection."

vii. In Section 2.25, at Item 8, insert "and which does not otherwise adversely affect health and safety" at the end of the section.

4. Chapter 3 of the plumbing subcode, entitled "Materials," is amended as follows:

i. In Section 3.1.1 delete "Minimum." In the same section at items (1) and (2), delete "Section 3.12.2" and insert "N.J.A.C. 5:23-3.7."

ii. In Section 3.1.2, at Item a, delete "at least." In the same section, delete "Section 3.12" and insert "N.J.A.C. 5:23-3.7."

iii. In Section 3.13 delete "Section 3.12.2" and insert "N.J.A.C. 5:23-3.7."

iv. Section 3.3.8a is amended to add the following phrase: "Pressure vessels shall be designed and constructed in accordance with the requirements of American Society of Mechanical Engineers, (ASME), Rules for Construction of Pressure Vessels, Section VIII/1998. Any pressure vessel that exceeds any of the following, shall meet the requirements of ASME and shall be stamped ASME: A heat input rating of 200,000 BTU per hour; or a water temperature of 200 degrees Fahrenheit; or a nominal water capacity of 120 gallons or any other thresholds of ASME that apply."

v. Section 3.3.11 entitled "Septic Tanks" is deleted in its entirety.

vi. Add new section 3.4.2.1 as follows: 3.4.2.1 Combination Domestic/Fire Water Service: Water service piping for combination domestic/fire water services shall be of materials listed in Table 3.4 and shall be water pressure rated not less than 200 psig at 73°F Joint restraints shall comply with Section 6.3, entitled "Joint Restraint for Fire Mains" per NFPA 13.

Exception: Limited area sprinkler systems installed in accordance with Section 903.3.5.1.1 of the building subcode, shall be water pressure rated not less than 160 psig at 73°F.

vii. In Section 3.11.1 delete "approved by the Authority Having Jurisdiction."

viii. In Section 3.11.2 delete "except as may be otherwise authorized by the Authority Having Jurisdiction."

ix. Sections 3.12.1, 3.12.2, 3.12.3, 3.12.4, and 3.12.5 are deleted in their entirety.

5. Chapter 4 of the plumbing subcode entitled, "Joints and Connections" is amended as follows:

i. In Section 4.3.8(b)(3) delete "be approved by the Authority Having Jurisdiction if such products are not listed or labeled" and insert "or as permitted under N.J.A.C. 5:23-3.7."

6. Chapter 5 on the plumbing subcode entitled, "Traps, Cleanouts and Backwater Valves" is amended as follows:

i. In Section 5.3.2, Exception (2), delete "administrative authority" and insert "Authority Having Jurisdiction in accordance with N.J.A.C. 5:23-3.3."

ii. In Section 5.3.4 delete "administrative authority" and insert "Authority Having Jurisdiction in accordance with N.J.A.C. 5:23-3.3."

7. Chapter 6 of the plumbing subcode, entitled "Liquid Waste Treatment Equipment," is amended as follows:

i. At the end of Section 6.1.1 delete "in the opinion of the administrative authority" and add the following: "The determination of necessity shall be made by the plumbing subcode official in accordance with N.J.A.C. 5:23-3.3."

ii. Section 6.4.4 is amended to add the phrase "in accordance with N.J.A.C. 5:23-3.3" after the word "approval" on line 2.

8. Chapter 7 of the plumbing subcode, entitled "Plumbing Fixtures, Fixture Fittings and Plumbing Appliances" is amended as follows:

i. Section 7.2 is amended to read "Plumbing fixtures for accessible use and their installation shall conform to the requirements of N.J.A.C. 5:23-7 et. seq."

ii. In Section 7.4.4, Exception (2) shall be deleted and the following text shall be inserted: "Accessible water closets shall conform to the requirements of N.J.A.C. 5:23-7 et seq. In facilities intended primarily for use by the water closets, other than those required to be accessible, shall be at least 17 inches high."

iii. At the end of Section 7.18.2 after "Authority Having Jurisdiction" insert "in accordance with N.J.A.C. 5:23-3.3."

iv. Note 1 to Table 7.21.1 is amended to delete the words "For handicap requirements see local, state, or national codes." in the second sentence.

v. Figure 7.3.2 is amended to delete the word "Code" and substitute in lieu thereof "Subcode" in the block at bottom.

vi. A new section 7.25 is added as follows:

"7.25 Safety Features for Public Swimming Pools.

Public swimming pools shall comply with the following sections of the N.J. Department of Health and Senior Services, Chapter 26 "Public Recreational Bathing," Subchapter 3.

Swimming Pools. N.J.A.C. 8:26-3.16 Inlets and outlets:

(c)1. All swimming pools shall be equipped with main drain suction outlets in the lowest point of the swimming pool floor. The spacing of the main drain suction outlets shall not be greater than 20 feet on center, nor more than 15 feet from each side wall.

(d) The suction outlets shall be designed to protect against a suction entrapment, evisceration, and/or hair entanglement/entrapment hazard.

2. A minimum of two hydraulically balanced suction outlets equipped with covers shall be provided per swimming pool pump suction line.

i. Exception: If verification of the installation of an excess flow valve is provided by the gas utility, vehicle impact barriers shall not be required.

12. Where work, other than ordinary maintenance or minor work, is being performed on an elevator, the elevator shall be equipped to operate with a standardized fire service key.

(f) In buildings of Groups I-1, R-1, R-2, R-3, R-4 or R-5 containing a fuel burning appliance or having an attached garage, carbon monoxide alarms shall be installed in accordance with the mechanical subcode. (Fire)

(g) All materials and methods used shall comply with the requirements specified in N.J.A.C. 5:23-6.8, Materials and methods.

1. For repair work undertaken as part of a reconstruction project, materials like those existing may be used. There is no limit to the amount of repair work which may be undertaken.

2. Exception: Windows may be replaced with windows like those existing without meeting the size requirements of the building subcode.

i. In sleeping rooms below the fourth story in occupancies of Groups R or I-1, where new window openings are being created or the size of window openings is being changed, at least one window shall:

- (1) Be operable;
- (2) Have a sill height of not more than 44 inches;
- (3) Have a width of at least 20 inches, a height of at least 24 inches and a minimum total area of 5.7 square feet measured from head to sill and from side to side.
- (4) New window openings in sleeping rooms shall not be required to meet these requirements in buildings where the sleeping room is provided with a door to a corridor having access to two remote exits or in buildings equipped throughout with an automatic sprinkler system.

ii. Basement windows in buildings of Group R-2 shall comply with the requirements of N.J.A.C. 5:23-6.26(b)3 where the window serves as the second means of egress from the dwelling unit.

3. Replacement handrails and guardrails shall comply with Sections 1003.3.3.11, 1003.3.4.7 and 1003.2.12 of the building subcode, respectively. Where 50 percent or more of a handrail or guardrail on a flight or on a level is replaced, then this shall be considered a complete replacement and shall comply with the referenced sections of the building subcode. The repair or replacement of less than 50 percent of a handrail or guardrail shall be permitted to match the existing handrail or guardrail. (Building)

(h) All new building elements, as listed in N.J.A.C. 5:23-6.9, shall comply with the requirements of that section.

(i) The basic requirements of this subchapter for the applicable group shall be met within the work area(s). Attendant work outside the work area(s) shall not make the building less conforming with the basic requirements than it was when the reconstruction was undertaken.

1. Where the building currently exceeds the basic requirements, the extent to which it exceeds shall not be reduced unless the building also exceeds the requirements of the corresponding subcode of the UCC. In this case, the extent of compliance with the basic requirements may be reduced, but not below the requirements of the corresponding subcode of the UCC. Existing fire alarm, automatic sprinkler and standpipe systems shall not be removed without replacement and shall be maintained in operating condition.

(j) The supplemental requirements of this subchapter for the applicable group shall be met wherever the extent of the work is such that the trigger accompanying each requirement is met or exceeded.

(k) In a building required by the barrier free subcode to be accessible, where the space reconstructed is a primary function space, an accessible path of travel to the space shall be provided up to the point at which the cost of providing accessibility is disproportionate to the cost of the overall project; a cost is disproportionate if it exceeds 20 percent of the cost of the work. (Building)

1. The accessible path of travel shall include, but not be limited to, an accessible parking space, an accessible exterior route, an accessible building entrance, an accessible interior route to the reconstructed area, accessible restrooms, accessible drinking fountains, and accessible telephones serving the reconstructed primary function space. Priority shall be given to providing an accessible entrance or accessible restrooms where possible.

2. In determining disproportionate cost, the following materials may be deducted from the overall cost of the project:

- i. Windows, hardware, operating controls, electrical outlets and signage;
- ii. Mechanical systems, electrical systems, installations or alterations of fire protection systems or abatement of hazardous materials; or
- iii. The repair or installation of roofing, siding, or other exterior wall facade.

3. Where the work consists solely of the reconstruction of materials or systems listed in (k)2 above, the path of travel requirements shall not apply.

4. Where the work is for the primary purpose of increasing the accessibility of the building or tenancy, the

requirement to further improve the path of travel shall not apply.

5. Where it is technically infeasible to comply with the technical standards of ICC/ANSI A117.1-1998, the work must comply to the maximum extent feasible.

Amended by R.2000 d.492, effective December 18, 2000.

See: 32 N.J.R. 3219(a), 32 N.J.R. 4437(b).

In (c), rewrote 2 and added 4; in (d), added 5; in (e), amended the N.J.A.C. reference in 5, rewrote 8iii, and substituted "Section 250-140" for "Section 250-60" in 8v.

Amended by R.2002 d.5, effective January 7, 2002.

See: 33 N.J.R. 3392(a), 34 N.J.R. 267(a).

In (d), added new 6; in (e), added new 11.

Amended by R.2003 d.137, effective April 7, 2003.

See: 34 N.J.R. 4277(a), 35 N.J.R. 1558(c).

Deleted (e)11; added a new (f); recodified former (f) through (j) as (g) through (k).

Amended by R.2003 d.218, effective May 19, 2003.

See: 35 N.J.R. 29(a), 35 N.J.R. 2209(a).

Rewrote the section.

Administrative correction.

See: 35 N.J.R. 4861(a).

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout and substituted references to automatic sprinkler for references to fire suppression throughout; in (g)2ii, amended the N.J.A.C. reference.

Amended by R.2004 d.468, effective December 20, 2004.

See: 36 N.J.R. 1858(b), 36 N.J.R. 5711(a).

In (e), added 11.

Amended by R.2005 d.4, effective January 3, 2005.

See: 36 N.J.R. 4049(a), 37 N.J.R. 47(a).

Added (e)12.

### 5:23-6.8 Materials and methods

(a) The following requirements shall be met for materials and installation methods for all items that are part of the applicant's proposed project for all categories of work other than repair as defined in N.J.A.C. 5:23-6.3.

1. Where sections listed below reference other sections not listed below, those sections shall apply within that limited context.

(b) Building and Fire Protection Materials and Methods: The following sections of the building subcode (N.J.A.C. 5:23-3.14) shall constitute the building and fire protection materials and methods requirement for this subchapter:

1. The following sections of Chapter 5 entitled "General Building Height and Areas":

i. Section 505 shall apply to newly constructed "Mezzanines";

2. The following sections of Chapter 7 entitled "Fire-Resistance-Rated Construction":

- i. Subsections 703.2, 703.3, 703.4;
- ii. Subsection 704.2.1, 704.2.2, 704.2.3, 704.4, 704.13, 704.14;
- iii. Subsections 705.3, 705.8, 705.9, 705.10, 705.11;
- iv. Section 706.6, 706.7, 706.8, 706.9;

v. Section 707.7, 707.8, 707.9, 707.10, 707.13.2;

vi. Subsections 708.2, 708.6, 708.7, 708.8, 708.9;

vii. Subsections 709.2, 709.5, 709.6, 709.7, 709.8;

viii. Subsections 710.2, 710.5, 710.6, 710.7;

ix. Section 711;

x. Section 712;

xi. Subsections 714.2.5, 714.2.6, 714.2.7, 714.2.8, 714.2.9, 714.3.1, 714.3.2, 714.3.3, 714.3.4, 714.3.5, 714.3.6, 714.3.8, 714.3.9;

xii. Subsections 715.2, 715.3, 715.4, 715.7;

xiii. Subsections 716.2.1, 716.3.1;

xiv. Subsections 717.2, 717.4, 717.5;

xv. Section 718;

xvi. Section 719; and

xvii. Section 720;

3. All of Chapter 8 entitled "Interior Finishes" except 802;

4. All of Chapter 9 entitled "Fire Protection Systems" except 901, 902, 903.2, 904.2, 905.3, 906.1, 908.1, 908.2, 910.2, 911;

i. In buildings of Groups R and I-1, smoke detectors that are located closer than five feet to a kitchen or bathroom area shall be of photoelectric type only;

5. The following sections of Chapter 10 entitled "Means of Egress":

i. Subsection 1003.2.10.2, 1003.2.10.4, 1003.2.10.5;

ii. Subsections 1003.2.12.1, 1003.12.2;

iii. Subsections 1003.3.1.3.1, 1003.3.1.3.2, 1003.3.1.3.3, 1003.3.1.3.4, 1003.3.1.3.5, 1003.3.1.8; and

iv. Subsections 1003.3.3.11.1, 1003.3.3.11.2, 1003.3.3.11.3, 1003.3.3.11.4, 1003.3.3.11.5, 1003.3.3.11.6;

6. The following sections of Chapter 12 entitled "Interior Environment":

i. Section 1202.4.2 shall apply to new sources of contaminants; and

ii. Section 1209;

7. All of Chapter 14 entitled "Exterior Walls" except 1401, 1402, 1403.2;

8. All of Chapter 15 entitled "Roof Assemblies and Rooftop Structures" except 1501.1, 1502.0, 1503.4, 1503.5;

9. All of Chapter 16 entitled "Structural Design," except 1601, 1604, 1608, 1609, 1610, 1611, 1612, 1613, shall apply to new or replaced structural members. The referenced sections of Chapter 16 shall not be used to analyze any existing structural members, except as otherwise provided by this subcode;

10. All of Chapter 18 entitled "Soil and Foundations" except section 1801, 1802, 1803, 1804, 1805, 1806;

i. Additionally, the following section of 1806 shall be included as part of Material and Methods: 1806.2.1, 1806.2.2, 1806.3.1, 1806.3.2, 1806.3.3, 1806.4.1, 1806.4.2, 1806.4.3;

11. All of Chapter 19 entitled "Concrete" except 1901, 1092;

12. All of Chapter 20 entitled "Aluminum";

13. All of Chapter 21 entitled "Masonry";

14. All of Chapter 22 entitled "Steel";

15. All of Chapter 23 entitled "Wood";

16. All of Chapter 24 entitled "Glass and Glazing";

17. All of Chapter 25 entitled "Gypsum Board and Plaster";

18. All of Chapter 26 entitled "Plastic"; and

19. For the applicability of Chapter 30 entitled "Elevators and Conveying Systems," refer to (g) below, Elevator Devices.

(c) Plumbing Materials and Methods: The following sections of the plumbing subcode (N.J.A.C. 5:23-3.15) shall

constitute the plumbing material and method requirements for this subchapter:

1. All of Chapter 2 entitled "General Regulations" except 2.19 and 2.24:

i. Section 2.19 for mandatory connections to the public water supply and sewer shall apply when existing septic or water supply facilities are no longer suitable for use as determined by the local health inspector, and public facilities are available within the meaning of 2.19.

2. All of Chapter 3 entitled "Materials."

3. All of Chapter 4 entitled "Joints and Connections."

4. All of Chapter 5, entitled "Traps, cleanouts and backwater valves."

5. Chapter 6, entitled "Interceptors" except sections 6.1.1, 6.1.7, 6.3.1 and 6.4.1:

i. Section 6.1.1, 6.3.1, 6.4.1 for when interceptors are required shall not apply. However, when new fixtures, or devices are installed that will produce wastes that need to be separated, an interceptor shall be required.

6. Chapter 7, entitled "Plumbing Fixtures, Fixture Fittings and Plumbing Appliances" except section 7.21 and table 7.21.1.

7. Chapter 8 entitled "Hangers and Supports."

8. Chapter 9 entitled "Indirect Wastes Piping and Special Waste."

9. Chapter 10 entitled "Water Supply and Distribution" except for sections 10.3, 10.6.5, 10.8.1, and 10.14:

i. Water shall be supplied so that fixtures within a building are provided with an adequate supply of water so that they are functional.

ii. Section 10.6.5 shall apply to all newly-installed or completely replaced water services.

iii. Section 10.8.1 shall apply, where there is not sufficient pressure for proper functioning of fixtures, a water pressure booster system shall be required.

iv. Section 10.14 for sizing water distribution systems shall apply when the proposed work will impose additional loads on the system. Where the proposed work does not increase or decreases the load on the existing system, no increase in size shall be required. All new piping associated with the installation of additional fixtures shall comply with the sizing requirements of Chapter 10.

10. All of Chapter 11, entitled "Sanitary Drainage Systems" except 11.2.2, 11.2.3, 11.5, and 11.6:

i. Section 11.2.3 for sizing building sewers shall apply when the proposed work will impose additional loads on the sewer. Where the proposed work does not increase or decreases the load on the existing system, no increase in size shall be required.

ii. Section 11.5 for sizing drainage systems shall apply when the proposed work will impose additional loads on the system. Where the proposed work does not increase or decreases the load on the existing system, no increase in size shall be required. All new piping associated with the installation of additional fixtures shall comply with the sizing requirements of 11.5.

iii. Section 11.6 for sizing offsets in drainage systems shall apply when the proposed work will impose additional loads on the system. Where the proposed work does not increase or decreases the load on the existing system, no increase in size shall be required.

11. All of Chapter 12, entitled "Vents and Venting" except 12.3.1, 12.3.2 and 12.16:

i. Section 12.3.1 for locations where vent stacks are required shall apply where new stacks are being installed;

ii. Section 12.3.2 "Relief Vents for Stacks having Ten or More Branch Intervals" shall apply only when new stacks of ten or more branch intervals are being installed; and

iii. Section 12.16 for size and length of vents shall apply when new vents are being installed.

12. All of Chapter 13 entitled "Storm Water Drainage" except 13.1.1, 13.1.2, 13.1.6, 13.1.7, 13.1.10.1, 13.4.3, 13.6.1, 13.6.2:

i. Section 13.1.1 for where storm water drains are required shall apply only when new roofs, paved areas, yards, courts and courtyards are created.

ii. Section 13.1.2 "Storm Water Drainage to Sewer Prohibited" shall not be applied to existing connections to the sewer. This section shall only prohibit the connection of new storm water drains to a sanitary sewer that is prohibited from accepting such discharge.

iii. Section 13.1.6 "Areaway Drains" shall apply only to newly created, open, below grade areaways where storm water can accumulate.

iv. Section 13.1.7 "Window Well Drains" shall apply only to newly created window wells.

v. Section 13.1.10.1 for sizing roof drains, as amended in N.J.A.C. 5:23-3.15, shall apply only where additional roof area is to be drained or where other circumstances increase the load on existing roof drains.

vi. Section 13.4.3 "Combining Storm with Sanitary Drainage" shall not be applied to existing connections to the sewer. This section shall only require that newly installed sanitary and storm sewers be separate.

vii. Section 13.6.1 for sizing of "Vertical Conductors and Leaders" shall only apply when the proposed work will impose additional loads on the system. Where the proposed work does not increase or decreases the load on the existing system, no increase in size shall be required.

viii. Section 13.6.2 "Size of Horizontal Storm Drain Piping" shall only apply when the proposed work will impose additional loads on the system. Where the proposed work does not increase or decreases the load on the system, no increase in size shall be required.

13. All of Chapter 14 entitled "Special Requirements For Health Care Facilities."

14. All of Chapter 15 entitled "Tests and Maintenance."

15. Section 16.1.7 of Chapter 16 entitled "Regulations Governing Individual Sewage Disposal Systems for Homes and Other Establishments Where Public Sewage Systems Are Not Available."

16. All of Chapter 18 entitled, "Mobile Homes & Travel Trailer Park Plumbing Standards."

(d) Electrical Materials and Methods. The following sections of the electrical subcode (N.J.A.C. 5:23-3.16) shall constitute the electrical materials and methods requirements for this subchapter:

1. Section 90.7, entitled "Examination of Equipment for Safety" of the Introduction, Article 90;

2. All of Chapter 1 entitled "General" except Sections 110.8 Wiring Methods, 110.26 Spaces About Electrical Equipment (600 Volts, Nominal, or less), 110.32 Work Space About Equipment (over 600 Volts, Nominal) and 110.33 Entrance and Access to Work Space;

3. All of Chapter 2 entitled "Wiring and Protection" except Sections 210.52 Dwelling Unit Receptacle Outlets, 210.60 Guest Rooms, 210.62 Show Windows, 210.63 Heating, Air Conditioning, and Refrigeration Equipment Outlet, 210.70 Lighting Outlets Required and 210.11 Branch Circuits Required;

4. All of Chapter 3 entitled "Wiring Methods";

5. All of Chapter 4, entitled "Equipment for General Use" except Section 404.8 Accessibility and Grouping (switches) and Section 408.8 Clearances (switchboards and panelboards);

6. All of Chapter 5, entitled "Special Occupancies;"

7. All of Chapter 6, entitled "Special Equipment;"

8. All of Chapter 7, entitled "Special Conditions;" and

9. All of Chapter 8 entitled "Communications Systems."

10. Existing working clearances, clear space, access and entrance dimensions to working spaces, illumination, headroom clearances, and location of overcurrent protection devices shall be allowed to remain without modification.

(e) Mechanical Materials and Methods: The following sections of the mechanical subcode (N.J.A.C. 5:23-3.20) shall constitute the mechanical materials and methods requirements for this subchapter:

1. All of Chapter 3, entitled "General Regulations" except 301.2, 301.7, 301.8, 301.13, 301.16, 303.5, 303.6, 303.7, 306, 307.2.3, 309 and 312;

2. All of Chapter 4, entitled "Ventilation" except 402 and 403;

3. All of Chapter 5, entitled "Exhaust Systems" except 502, 509, 510, and 513;

i. Section 509 shall apply to newly installed or replaced commercial food heat-processing appliances and Type I hoods;

ii. Section 510 shall apply to newly introduced sources of hazardous exhaust;

4. All of Chapter 6, entitled "Duct Systems" except 602 and 604;

i. Section 602 shall apply to newly-constructed plenums. Modifications to existing plenums, such as installation of new building, electrical or plumbing materials inside the plenum, increasing air flow rate within the plenum, etc. shall not require the plenum to comply with the construction requirements for new plenums. However, newly-installed materials within the plenum shall be consistent with material requirements of 602;

5. All of Chapter 7, entitled "Combustion Air";

6. All of Chapter 8, entitled "Chimneys and Vents";

7. All of Chapter 9, entitled "Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment";

8. All of Chapter 10, entitled "Boiler, Water Heaters and Pressure Vessels";

9. All of Chapter 11, entitled "Refrigeration";

10. All of Chapter 12, entitled "Hydronic Piping" except 1204;

11. All of Chapter 13, entitled "Fuel Oil Piping and Storage" except 1305.1;

i. Section 1305.1 shall apply when the work being performed increases the load on the system such that the existing pipe does not meet the size required by code. Existing systems that are modified shall not require resizing as long as the load on the system is not increased and the system length is not increased even if the altered system does not meet code minimums; and

12. All of Chapter 14, entitled "Solar Systems."

(f) Fuel Gas Materials and Methods. The following sections of the fuel gas subcode (N.J.A.C. 5:23-3.22) shall constitute the fuel gas materials and methods requirements for this subchapter:

1. All of Chapter 3, entitled "General Regulations" except 301.2, 301.6, 301.11, 301.12, 303.7, and 306;

2. All of Chapter 4, entitled "Gas Piping Installations" except 401.8 and 402.3;

i. Sections 401.8 and 402.3 shall apply when the work being performed increases the load on the system such that the existing pipe does not meet the size required by code. Existing systems that are modified shall not require resizing as long as the load on the system is not increased and the system length is not increased even if the altered system does not meet code minimums;

3. All of Chapter 5, entitled "Chimneys and Vents"; and

4. All of Chapter 6, entitled "Specific Appliances."

(g) Barrier Free Materials and Methods: The requirements of ICC/ANSI A117.1-1998 shall constitute the barrier free materials and methods requirements for this subchapter and shall apply to work projects in all buildings other than buildings of Group R-2, R-3, R-4 or R-5 containing fewer than four dwelling units or buildings of Group U.

1. Exception: Where full compliance is technically infeasible, compliance shall be achieved to the maximum extent feasible.

2. For toilet or bathing facilities, at least one of each type of fixture shall be accessible. Where six or more toilet stalls are provided, in addition to a wheelchair accessible stall, at least one ambulatory accessible stall shall be provided.

i. Exception: Nonpublic toilet rooms for individual use may be adaptable.

3. Limited exceptions to the accessibility requirements for theatres and auditoriums are permitted as follows:

i. Where fixed seating is provided and it is technically infeasible to provide integrated accessible seating, accessible seating may be clustered.

ii. When a facility contains more than one performing area and it is technically infeasible to make all performing areas accessible, the provision of one accessible performing area shall be accepted as meeting the requirement for providing access to performing areas.

4. In buildings of Group M, where fitting room partitions are installed or moved, five percent of the fitting rooms, but not less than one, shall comply.

(h) Residential Materials and Methods: The following sections of the residential subcode (N.J.A.C. 5:23-3.21) shall constitute the residential materials and methods requirements for this subchapter:

1. The following sections of Chapter 3, entitled "Building Planning";

- i. Section 307.2;
- ii. Section 308;
- iii. Section 318;
- iv. Section 320;
- v. Section 323; and
- vi. Section 324;

2. The following sections of Chapter 4 entitled "Foundations":

- i. Section 402; and
- ii. Section 407;

3. The following sections of Chapter 5 entitled "Floors":

i. Sections 502.1, 502.8, 502.11, 502.12.1;

ii. Sections 503.2.1, 503.2.3, 503.3.1, 503.3.3;

iii. Sections 504.1, 504.3; and

iv. Sections 505.2.1, 505.2.2, 505.2.3, 505.2.4, 505.3.5, 505.3.6;

4. The following sections of Chapter 6 entitled "Wall Construction":

i. Sections 602.1, 602.2, 602.6, 602.8.1;

ii. Sections 603.2.1, 603.2.2, 603.2.3, 603.2.4, 603.3.4, 603.3.5;

iii. Sections 604.1, 604.3;

iv. Section 605;

v. Section 606.1, 606.14;

vi. Section 607.1;

vii. Section 608.1;

viii. Section 609.1;

ix. Sections 610.1, 610.2, 610.3;

x. Section 611.1;

xi. Section 612.1; and

xii. Section 613.1;

5. All of Chapter 7 entitled "Wall Covering";

6. The following sections of Chapter 8, entitled "Roof-Ceiling Construction":

i. Section 802.1, 802.7, 802.10;

ii. Section 803.2.1;

iii. Sections 804.2.1, 804.2.2, 804.2.3, 802.2.4, 804.3.5, 804.3.6; and

iv. Section 805.1;

7. The following sections of Chapter 9 entitled "Roof Assemblies":

i. Section 902.1;

ii. Section 903.1;

iii. Section 904;

iv. Section 905;

v. Section 906; and

vi. Section 907; and

8. All of Chapter 10 entitled "Chimneys and Fireplaces."

(i) Elevator Devices Materials and Methods: The following sections of the elevator subcode (N.J.A.C. 5:23-12) shall constitute the elevator device materials and methods requirements for this subchapter:

1. All of ASME A17.1 Part XII except Section 1206 as referenced by the adopted building subcode.
2. The following sections of Chapter 30 of the building subcode: Section 3002.1.2—"Hoistway Enclosures, Hardware" and Section 3005.3—"Conveying Systems, Conveyors."
3. The requirements of ASME A17.1 Rule 102.2(c)4, as referenced by the adopted building subcode, when an automatic sprinkler system is provided in an elevator hoistway, machine room and/or machinery space.

(j) **Manufactured Home Materials and Methods:** The following sections of the manufactured home subcode (N.J.A.C. 5:23-3.19) shall constitute the manufactured home materials and methods requirements for this subcode:

1. All of Part 3280 of Title 24 of the Code of Federal Regulations except 3280.1, 3280.5, 3280.6, 3280.7, and 3280.8.

Amended by R.1999 d.424, effective December 6, 1999.  
See: 31 N.J.R. 2428(a), 31 N.J.R. 4001(c).

In (b), inserted a reference to fire protection materials the introductory paragraph, inserted 4i and 4ii, inserted a new 5iii, and recodified former 5iii and 5iv as 5iv and 5v; and in (c), changed chapter 5 reference in 4, substituted a reference to section 7.21 for a reference to 7.24 in 6, substituted a reference to section 11.2.3 for a reference to 11.2.2 in 10i, changed chapter 14 reference in 13, and changed section 16.1.7 reference in 15.

Administrative correction.

See: 32 N.J.R. 688(a).

Amended by R.2000 d.492, effective December 18, 2000.

See: 32 N.J.R. 3219(a), 32 N.J.R. 4437(b).

In (b), rewrote 15 and 21; in (d), rewrote 2 through 4; and added (h).

Amended by R.2002 d.5, effective January 7, 2002.

See: 33 N.J.R. 3392(a), 34 N.J.R. 267(a).

In (b), added new 5vi.

Amended by R.2003 d.218, effective May 19, 2003.

See: 35 N.J.R. 29(a), 35 N.J.R. 2209(a).

Rewrote the section.

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout; in (b), substituted "906.1" for "906" in the introductory paragraph of 4 and inserted "1003.3.1.3.1" in 5iii; in (i), substituted a reference to automatic sprinkler for a reference to fire suppression in 3.

Administrative correction.

See: 36 N.J.R. 2490(b).

### 5:23-6.9 New building elements

(a) When the rehabilitation of an existing building creates or includes any building element of a type listed in this section, then the new element shall comply with the requirements for such an element established by this section.

1. The installation of a floor system which did not previously exist, shall be constructed utilizing the live load requirements as specified in Section 1607 of the building subcode.

2. When the number of stories in a building is increased without increasing the height of the building, the building shall comply with the story requirements of Table 503 of the building subcode.

3. Newly created floor openings shall comply with the requirements of Section 707 of the building subcode.

4. Newly created atriums shall comply with the requirements of Section 404 of the building subcode.

5. Newly created door openings shall comply with Section 1003.3.1.1 of the building subcode. Additionally, newly created door openings in walls which are fire-resistance rated shall comply with Section 714 of the building subcode.

6. Newly created openings in fire resistance rated assemblies shall be protected in accordance with Section 711 of the building subcode.

7. Newly created exit discharge passageways used as exit elements shall comply with the requirements of Section 1005.3.3 of the building subcode. However, the fire resistance rating of the discharge passageway shall not be required to exceed the fire resistance rating of the exit element that discharges into the passageway.

8. Newly created exit stairways shall comply with Section 1005.3 of the building subcode.

9. Newly installed fire escapes shall be constructed in accordance with FTO-3 of the Uniform Construction Code. (Building)

10. Newly installed elevator devices (not replacing an existing device) and other newly installed (not replacement) equipment within the scope of Chapter 30 shall conform to the requirements of Chapter 30 of the building subcode.

i. Exception: Newly installed devices shall not be required to comply with part XXIV of ASME A17.1 adopted by reference in the building subcode.

11. Newly created corridors shall comply with Sections 1004.3.2.1, 1004.3.2.3, 1004.3.2.4, and 1004.3.2.5 of the building subcode.

12. Newly constructed mezzanines shall comply with Section 505 of the building subcode.

13. Newly created covered mall buildings shall comply with Section 404 of the building subcode.

14. Newly created motion picture projection rooms, screening rooms and sound stages shall comply with Section 409 of the building subcode.

15. Newly created stages and platforms shall comply with Section 410 of the building subcode.

16. Newly created spaces which are utilized for the application of flammable finishes shall comply with Section 416 of the building subcode.

17. At least one newly created window opening in sleeping rooms below the fourth story in occupancies in Groups R or I-1 shall:

- i. Be operable;
- ii. Have a sill height of not more than 44 inches;
- iii. Have a width of at least 20 inches, a height of at least 24 inches and a minimum total area of 5.7 square feet measured from head to sill and from side to side. (Building)
- iv. New window openings in sleeping rooms shall not be required to meet these requirements in buildings where the sleeping room is provided with a door to a corridor having access to two remote exits or in buildings equipped throughout with an automatic sprinkler system.
- v. Basement windows in buildings of Group R-2 shall comply with the requirements of N.J.A.C. 5:23-6.26(b)3 where the window serves as the second means of egress from the dwelling unit.

18. Newly created specific occupancy areas shall comply with the following:

- i. Paint shops in other than Group F which contain chemicals below the exempt amount for Group H, waste and soiled linen collection rooms and chute termination rooms shall be separated from other portions of the building by a one-hour fire partition or provided with an automatic sprinkler system.
- ii. Incinerator rooms in all groups shall be separated from other portions of the building by a two-hour fire separation assembly and provided with an automatic sprinkler system.
- iii. In Groups I-2 and I-3, physical plant maintenance shops, laundries in excess of 100 square feet in area and padded cells shall be separated from other portions of the building by a one-hour fire partition or provided with an automatic sprinkler system. (Plan review—Building, Fire. Inspection—Fire)

19. Newly installed (not replacing an existing device) electrical service equipment, switchboards, panelboards, motor control centers and other electrical equipment containing overcurrent, switching or control devices likely to require examination, adjustment, servicing or maintenance while energized shall conform with the requirements specified in N.J.A.C. 5:23-6.8, Materials and methods, and, in addition, shall conform with Sections 110.26 (Space About Electrical Equipment—600 Volts, Nominal or Less), 110.32 (Work Space About Equipment—Over 600 Volts, Nominal), 110.33 (Entrance and Access to Work Space), 404.8 (Accessibility and Grouping—Switches) and 408.8 (Clearances—Switchboards and Panelboards), as applicable, of the electrical subcode. (Electrical)

20. Newly created tenant separation, dwelling unit separation and guestroom separation assemblies shall comply with the requirements of Section 708 of the building subcode, as appropriate, based on the construction type of the existing building.

21. In occupancies of Group A, newly created assembly aisles and aisle accessways shall comply with Section 1008 of the building subcode.

22. Newly created openings in exterior walls shall comply with the table in N.J.A.C. 5:23-6.31(f)2.

- i. Exception: Newly created openings in buildings of Group R-2, R-3, R-4 or R-5 with a fire separation distance of three feet or less shall be provided with opening protectives.

23. Newly created stairs not required for purposes of egress shall comply with Sections 1003.3.3.2, 1003.3.3.11 and 1003.2.12, and Section and 1003.3.3.3, as amended at N.J.A.C. 5:23-3.14, of the building subcode.

24. Newly created passageways, aisle accessways and aisles in Group M shall comply with the minimum width requirements of Section 1004.3.2.2 of the building subcode.

Administrative correction.

See: 30 N.J.R. 539(a).

Amended by R.1999 d.424, effective December 6, 1999.

See: 31 N.J.R. 2428(a), 31 N.J.R. 4001(c).

In (a), inserted new 6 and 7, recodified former 6 through 17 as 8 through 19, and added 20.

Amended by R.2000 d.492, effective December 18, 2000.

See: 32 N.J.R. 3219(a), 32 N.J.R. 4437(b).

In (a), rewrote 19 and 20, and added 21 and 22.

Amended by R.2002 d.5, effective January 7, 2002.

See: 33 N.J.R. 3392(a), 34 N.J.R. 267(a).

In (a), inserted new 10i, and added new 23 and 24.

Amended by R.2003 d.218, effective May 19, 2003.

See: 35 N.J.R. 29(a), 35 N.J.R. 2209(a).

Updated building subcode section citations throughout.

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout and substituted references to automatic sprinkler for references to fire suppression throughout; in (a), amended the N.J.A.C. reference in 17v and inserted "(not replacing an existing device)" in 19.

### 5:23-6.10 Basic requirements and supplemental requirements—general

(a) The basic requirements, set forth in N.J.A.C. 5:23-6.11 for all groups and for individual groups in N.J.A.C. 5:23-6.12 through 6.28, shall be met within or with regard to the work area in all reconstruction projects. (These requirements are in addition to the requirements contained in N.J.A.C. 5:23-6.8, Materials and methods.)

(b) The supplemental requirements, set forth in N.J.A.C. 5:23-6.11A for all groups and for individual groups in N.J.A.C. 5:23-6.12A through 6.28A, shall be met in all buildings where there are reconstruction projects that meet or exceed the stated threshold for each requirement.

1. All reconstruction work begun within a single 12 month period shall be considered for determining the applicability of the supplemental requirement.

2. If a project falls under the threshold for a supplemental requirement by a de minimis amount, the construction official may require that the supplemental requirement be met.

(c) Reconstruction projects contained in mixed use buildings shall comply with the requirements of N.J.A.C. 5:23-6.29 as applicable.

(d) Special technical specifications for windowless stories, the supervision of automatic sprinkler systems, automatic sprinkler system risers, acceptances of existing alarm and automatic sprinkler systems, smoke barriers, elevators and specific occupancy areas are established in N.J.A.C. 5:23-6.30. The windowless story, supervision of automatic sprinkler systems and smoke barrier special technical requirements shall apply only in those uses where specified by this subcode.

Amended by R.2004 d.145, effective April 5, 2004.  
See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout; in (d), substituted references to automatic sprinkler for references to fire suppression throughout.

**5:23-6.11 Basic requirements in all Groups**

(a) This section shall apply within the work area for all reconstruction projects.

(b) Capacity of Means of Egress: The capacity of the means of egress in each work area shall be sufficient for the maximum permitted occupant load of the work area and any adjacent spaces served by that means of egress as calculated on a per floor basis. Means of egress shall be measured in units of exit width of 22 inches.

1. The maximum permitted occupant load of a space shall be determined by the capacity of the means of egress serving the space as calculated in accordance with Table 1. Building owners shall have the option of establishing a reasonable restriction on the occupant load of the space based on the existing capacity of the means of egress or of providing additional egress capacity. (Plan review—Building, Fire, Inspection—Building)

Table 1

CAPACITY PER UNIT EGRESS WIDTH

Group	Without automatic sprinkler system Number of occupants		With automatic sprinkler system Number of occupants	
	Stairways	Doors, Ramps and Corridors	Stairways	Doors, Ramps and Corridors
A	75	100	113	150
B	60	100	90	150
E	75	100	113	150
F	60	100	90	150
H	—	—	60	100
I-1	60	100	90	100

Group	Without automatic sprinkler system Number of occupants		With automatic sprinkler system Number of occupants	
	Stairways	Doors, Ramps and Corridors	Stairways	Doors, Ramps and Corridors
I-2	22	30	35	45
I-3	60	100	90	150
M	60	100	90	150
R	75	100	113	150
S	60	100	90	150

Note: The occupant load may be equal to the total number of occupants for which exit capacity is provided as determined by Table 1 above. For Group A occupancies, the resulting total occupant load shall not exceed one occupant per five square feet of net floor area over the entire use.

Interpolation shall be allowed in determining capacity of egress width.  
Unit of egress width = 22 inches

(c) Interior Finishes: Interior finishes within work areas shall comply with the following:

1. Existing interior finishes of walls and ceilings shall have a flame spread rating not greater than the class prescribed by Table 2 below. All existing interior finish materials which do not comply with the requirements of this section shall be removed or shall be treated with an approved fire retardant coating in accordance with the manufacturer's instructions to secure compliance with the requirements of this section. Exceptions are allowed as follows:

i. The use of vinyl or paper wall coverings not exceeding 1/28th of an inch in thickness which is applied directly to a noncombustible or fire retardant treated wood substrate shall not be regulated by this section.

ii. Interior trim which does not exceed 10 percent of the aggregate wall and ceiling area of any room or space shall not be regulated by this section.

iii. When an approved automatic sprinkler system is provided, interior finish of Class II or Class III materials shall be permitted where Class I or Class II materials, respectively, are required by this section.

iv. Exposed portions of structural members complying with the requirements for heavy timber construction in accordance with the Uniform Construction Code shall not be regulated by this section. (Plan review—Building, Fire, Inspection—Building)

Table 2

Existing Interior Finish Requirements

Group A, E, I, R-1 All Other Groups	Exit Enclosures	Exit Access Enclosures	Rooms or Spaces
	I	II	III
	I	II	No Minimum

The classification of interior finishes referred to herein corresponds to flame spread ratings determined by ASTM E84 as follows: Class I flame spread, 0-25; Class II flame spread, 26-75; Class III flame spread, 76-200. In all cases, the smoke developed rating determined by ASTM E84 shall not exceed 450.

See Group A-3 for amusement buildings.

(d) Commercial cooking operations: An automatic fire extinguishing system shall be required for newly installed commercial cooking equipment producing grease-laden vapors, except within individual dwelling units in multiple-family dwellings in Group R-2. No automatic fire extinguishing system shall be required for completely enclosed ovens, steam tables or similar equipment.

1. Exception: Bed and breakfast homestay facilities, which are designed to accommodate five or fewer guests, shall not be required to comply with this provision. (Fire)

Amended by R.1999 d.424, effective December 6, 1999.

See: 31 N.J.R. 2428(a), 31 N.J.R. 4001(c).

In (b), rewrote the note at the end of Table 1.

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout; in (c)1iii, substituted a reference to automatic sprinkler for a reference to fire suppression; in (d), substituted references to fire extinguishing system for references to fire suppression throughout.

### 5:23-6.11A Supplemental requirements in all Groups

- (a) This section shall apply to all reconstruction projects.

(b) Vertical Opening Protection: For purposes of applying the supplemental requirement for vertical opening protection below, a low hazard occupancy is an occupancy having contents of such low combustibility that no self-propagating fire can occur therein. A moderate hazard occupancy is an occupancy having contents that are likely to burn with moderate rapidity or to give off a considerable volume of smoke. (Plan review—Building, Fire. Inspection—Building)

(c) Windowless Stories: Any windowless basement or story located below the seventh story which is created by the work being performed or any existing windowless basement or story below the seventh story in which the work area exceeds 50 percent of the gross enclosed floor area of the windowless story, shall comply with the requirements listed in N.J.A.C. 5:23-6.30. (Fire)

(d) Underground Structures: When the work area exceeds 50 percent of the gross enclosed floor area of an underground structure, the entire structure shall comply with Section 405.0 of the building subcode.

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

### 5:23-6.12 Basic requirements—Group A-1

(a) Exits: Two exits shall be required for stories with less than 500 occupants. Three exits shall be required for stories with 501 to 1,000 occupants. Four exits shall be required for stories with more than 1,000 occupants. Two means of egress are also required from all mezzanines with

an occupant load greater than 50 and with exit travel distance greater than 75 feet.

1. A single exit is permitted in the story at the level of exit discharge when the occupant load of the story does not exceed 50 and the exit access travel distance does not exceed 75 feet. (Plan review—Building, Fire. Inspection—Building)

(b) Egress Doorways: A minimum of two egress doorways shall be required for all rooms and spaces with an occupant load greater than 50 or in which the travel distance exceeds 75 feet. All egress doors serving an occupant load greater than 50 shall swing in the direction of exit travel.

1. Exception: Storage rooms with a maximum occupant load of 10 shall not be required to have two egress doorways.

2. All required exit doors equipped with latching devices in buildings or spaces with an occupant load greater than 100 shall be equipped with approved panic hardware. (Plan review—Building, Fire. Inspection—Building)

(c) Capacity of Means of Egress: The capacity of the means of egress in each work area shall be determined in accordance with N.J.A.C. 5:23-6.11(b). Additionally, for buildings with an occupant load of 100 or more, a main entrance capable of serving as the main exit with an egress capacity for at least one-half the total occupant load is required. The remaining exits shall be capable of providing one-half of the total required exit capacity. This provision shall not apply in buildings with multiple main entrances. (Plan review—Building, Fire. Inspection—Building)

(d) Dead End Corridors: Existing dead end corridors shall not exceed 35 feet in length. Exceptions are allowed as follows:

1. Dead end corridors may be up to 50 feet in length in a building with an automatic alarm system installed in conformance with the building subcode in effect at the time of its installation.
2. Dead end corridors may be up to 70 feet in length in a building with an automatic sprinkler system installed in conformance with the building code in effect at the time of its installation. (Plan review—Building, Fire. Inspection—Building)

(e) Means of Egress Lighting: Artificial lighting with an intensity of not less than one foot candle at floor level shall be required during all times that the conditions of occupancy of the building require that the exits be available. Lighting shall also be required to illuminate the exit discharge. In all buildings, rooms or spaces required to have more than one exit or exit access, means of egress lighting shall be connected to an emergency electrical system conforming to NFPA 70 (NEC) except that continued illumination shall be

required to be provided for not less than one hour in the case of primary power loss.

1. In buildings used for motion pictures or other projections by means of directed light, the illumination of aisles may be reduced during periods of projection to not less than 0.2 foot candle. The switch requirements and location(s) for controlling egress lighting connected to the emergency electrical system shall be in conformance with the NFPA 70 (NEC). (Plan review—Building, Fire, Electric. Inspection—Building)

(f) Illuminated Exit Signs: Illuminated exit signs shall be provided for all required means of egress in all buildings, rooms or spaces required to have more than one exit or exit access. Exit signs shall be visible from the exit access and supplemented by directional signs when necessary. (Exception: Approved main exterior doors that are clearly identified as exits are not required to have exit signs.) Exit signs shall meet the following criteria:

1. Red or green letters at least six inches high; minimum width of each stroke  $\frac{3}{4}$  inch on a white background or in other approved distinguishable colors. Arrows, if provided, shall be such that the direction cannot readily be changed. The word "Exit" shall be clearly discernible when the sign is not energized.

2. Exit signs shall be illuminated at all times when the building is occupied by a source providing at least five foot candles at the illuminated surface or shall be approved self-luminous signs which provide evenly illuminated letters with a minimum luminance of 0.06 foot lamberts. Exit signs shall be connected to an emergency electrical system conforming to NFPA 70 (NEC) except that continued illumination shall be required to be provided for not less than one hour in the case of primary power loss. No emergency power shall be required for approved self-luminous signs. (Plan review—Building, Fire. Inspection—Building)

(g) Handrails: Every required exit stairway having three or more risers and not provided with handrails or in which the existing handrails are in danger of collapsing when used under emergency exiting conditions, shall be provided with handrails for the full length of the run of steps on at least one side. All exit stairways more than 66 inches wide shall have handrails on both sides unless the full width of the stairway is not needed to accommodate the design occupancy. (Plan review—Building, Fire. Inspection—Building)

(h) Guards: Every open portion of a stair, landing or balcony which is more than 30 inches above the floor or grade below and is not provided with guards or those in which the existing guards are in danger of collapsing when used under emergency exiting conditions, shall be provided with guards. (Plan review—Building, Fire. Inspection—Building)

(i) Vertical Opening Protection: Vertical opening protection for interior stairways and other vertical openings shall be provided as follows:

1. For vertical openings connecting more than six floor levels, approved assemblies having a fire resistance rating of not less than two hours with approved opening protectives shall be required.

2. For vertical openings connecting four to six floor levels, approved assemblies having a fire resistance rating of not less than one hour with approved opening protectives shall be required.

3. For vertical openings not exceeding three stories, a minimum 30-minute UFC fire barrier shall be required. Exceptions are as follows:

i. When connecting the main floor and mezzanines; or

ii. When all of the following conditions are met:

(1) The communicating area has a low hazard occupancy or has a moderate hazard occupancy which is protected throughout by an automatic sprinkler system;

(2) The lowest or next to the lowest level is a street floor;

(3) The entire area is open and unobstructed in a manner such that it may be assumed that a fire in any part of the interconnected spaces will be readily obvious to all of the occupants;

(4) Exit capacity is sufficient to provide egress simultaneously for all the occupants of all levels by considering all areas to be a single floor area for the determination of required exit capacity; and

(5) Each floor level, considered separately, has at least one-half of its individual required exit capacity provided by an exit or exits leading directly out of that level without having to traverse another communicating floor level or be exposed to the smoke or fire spreading from another communicating floor level. (Plan review—Building, Fire. Inspection—Building)

(j) Structural Elements: Structural elements which are uncovered during the course of the rehabilitation and which are found to be unsound or otherwise structurally deficient, shall be reinforced, supported or replaced in accordance with the applicable structural design criteria of the building subcode. Where structural elements are sound, there is no excessive deflection (defined as deflection in excess of the standards set forth in N.J.A.C. 5:23-6.7(c)1), and fixed loads are not changing in a way that will increase the stresses on existing structures beyond that which is permitted by N.J.A.C. 5:23-6.7(c), existing structural elements shall be permitted to remain. (Building)

1. Approved central station system in accordance with NFPA 72;
2. Approved proprietary system in accordance with NFPA 72;
3. Approved remote station system of the jurisdiction in accordance with NFPA 72; or
4. Approved local alarm service which will cause the sounding of an alarm in accordance with NFPA 72;
5. The following are exceptions to (d) above:
  - i. Underground gate valves with roadway boxes;
  - ii. Halogenated extinguishing systems;
  - iii. Carbon-dioxide extinguishing systems;
  - iv. Dry chemical extinguishing systems; and
  - v. Limited area sprinkler systems. (Fire)

(e) Technical Requirements for Smoke Barriers: Wherever smoke barriers are required by this subchapter, they shall be constructed in accordance with the following provisions:

1. Smoke barriers shall have a fire resistance rating of not less than one-half hour and shall form an effective membrane continuous from outside wall to outside wall and from floor slab to floor or roof deck above, including continuity through all concealed spaces, such as those found above suspended ceilings, and including interstitial structural and mechanical spaces. Transfer grilles, whether equipped with fusible link-operated dampers or not, shall not be used in these partitions. Wire glass panels not exceeding 1,296 square inches in approved steel frames may be used in smoke barriers.

- i. Exception: Smoke barriers are not required in interstitial spaces when such spaces are designed and constructed with ceilings that provide resistance to the passage of fire and smoke equivalent to that provided by smoke barriers.

2. A means of egress shall be provided from each smoke compartment created by smoke barriers such that it is possible to reach an exit without re-entering the smoke compartment.

3. Doors in smoke barriers shall have a fire-resistance rating of not less than 20 minutes when tested in accordance with ASTM E152 without the hose stream and labeled by an approved agency. Double egress corridor doors shall have vision panels of one-quarter inch thick labeled wire glass mounted in approved steel frames. Such panels may also be provided in other doors in smoke barriers. The glass area of the vision panels shall be limited to 1,296 square inches for each door. The doors shall close the openings with only the clearance necessary for proper operation under self-closing or automatic closing and shall be without undercuts, louvers or grilles. Rabbits or astragals are required at the meeting edges of

double egress doors, and stops are required on the head and jambs of all doors in smoke barriers. Positive latching devices are not required on double egress corridor doors, and center mullions are prohibited.

- i. Exception: Protection at the meeting edges of doors and stops at the head and sides of door frames may be omitted in buildings equipped with an approved engineered smoke control system. The engineered smoke control system shall respond automatically, preventing the transfer of smoke across the barrier.

4. Doors in smoke barriers shall be self-closing or shall be provided with approved door hold-open devices of the fail-safe type which shall release the doors causing them to close upon the actuation of smoke detectors as well as upon the application of a maximum manual pull of 50 pounds against the hold-open device.

5. An approved damper designed to resist the passage of smoke shall be provided at each point a duct penetrates a smoke barrier. The damper shall close upon detection of smoke by an approved smoke detector located within the duct.

- i. In lieu of an approved smoke detector located within the duct, ducts which penetrate smoke barriers above doors are permitted to have the approved damper arranged to close upon detection of smoke on either side of the smoke barrier door opening.

- ii. Dampers are not required in buildings equipped with an approved engineered smoke control system.

- iii. Dampers are not required where the openings in ducts are limited to a single smoke compartment and the ducts are of steel construction. (Plan review—Building, Fire. Inspection—Building)

(f) Existing alarm systems and automatic sprinkler systems shall be accepted provided that they meet the requirements of N.J.A.C. 5:23-6.8, Materials and methods, or the standards applicable at the time of their installation and provided that there is no increase in the hazard of the use or in the load. (Fire)

(g) Technical Requirements for Elevator Devices: Where elevator requirements are triggered by the supplemental requirements for each group (N.J.A.C. 5:23-6.12A through 6.28A), the following shall apply:

1. Passenger elevators. Elevator devices accessible to the general public shall conform to:

- i. ASME A17.3-1993 requirements for Hoistway Door Locking Devices, Parking Devices, and Access (Sections 2.7, 4.1); Hoistway Entrances (Sections 2.6, 4.1); Power Operation of Doors and Gates (Sections 2.8, 4.1); Floating Platforms (Sections 3.3.4); Car Doors and Gates (Section 3.4.2); Location of Car Doors and Gates (Section 3.4.3); Emergency Exits (Section 3.4.4); Car Illumination (Section 3.4.5) and

Protection of Light Bulbs and Tubes (Section 3.4.6); Terminal Stopping Devices (Sections 3.9, 4.6); Operating Devices and Control Equipment (Section 3.10, 4.7 except 4.7.8); Car Emergency Signaling Devices (Sections 3.11.1 and 4.7.8); Stop Switch (Pits) (Sections 2.3.3, 4.1); Machine Rooms and Machinery Spaces: Lighting (Section 2.2.3) and Ventilation (Section 2.2.4); Check Valve (Hydraulic Elevators) (Section 4.4.2).

ii. ASME A17.1-1996 requirements for Shutoff Valve (Rule 303.4a) and Manual Lowering Valve (Rule 303.4d)

2. Freight elevators. Elevators which are allowed to carry passengers by the authority having jurisdiction shall conform to ASME A17.1-1996 Rule 207.4 and ASME A17.3-1993 requirements for Car Frames and Platforms (Section 3.3) and Location of Car Doors and Gates (Section 3.4.3).

3. Elevators shall be equipped with emergency operation as required by ASME A.17.1-1987, Rules 211.3 through 211.4 and 211.7.

i. Phase II emergency operation shall be provided only if required by the requirements for high-rise buildings contained in the supplemental requirements for each group, N.J.A.C. 5:23-6:12A through 6.28A. In addition, when phase II emergency operation is required, standby power shall be provided. Standby power shall be installed in accordance with the electrical subcode. The elevator powered by a standby power system shall be subject to the requirements of ANSI/ASME A17.1-1996 Rule 211.2.

4. Escalators shall conform to ASME A17.3-1993 for Operating and Safety Devices (Section 5.3), Anti-Slide Devices (5.1.4), Handrail Guards (5.1.6), Guards at Ceiling or Soffit Intersection (5.1.3), Lighting (5.4), Distinction Between Comb and Step (5.5.2), Adjacent Floor Surfaces (5.5.3). (Elevator)

(h) Specific Occupancy Areas: Specific occupancy areas, as listed below, shall comply with the following:

1. Paint shops in other than Group F which contain chemicals below the exempt amount for Group H, waste and soiled linen collection rooms and chute termination rooms shall be separated from other portions of the building by a one-hour fire partition or provided with an automatic sprinkler system.

2. Incinerator rooms in all groups shall be separated from other portions of the building by a two-hour fire separation assembly and provided with an automatic sprinkler system.

3. In Groups I-2, I-3 and I-4, physical plant maintenance shops, laundries in excess of 100 square feet in area and padded cells shall be separated from other portions of the building by a one-hour fire partition or provided with an automatic sprinkler system. (Building)

Amended by R.2003 d.218, effective May 19, 2003.

See: 35 N.J.R. 29(a), 35 N.J.R. 2209(a).

In (a), substituted "R-5" for "R-4"; in (b)1, substituted "Section 903.3.5.1.1" for "Section 907.0"; in (g)1ii and (g)3i, substituted "A17.1-1996" for "A17.1-1993"; in (g)1ii, deleted "Supply Line" preceding "Shutoff Valve"; in (h)3, substituted ", I-3 and I-4" for "and I-3".

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Deleted references to use preceding references to group throughout and substituted references to automatic sprinkler for references to fire suppression throughout.

### 5:23-6.31 Change of use

(a) General: The following are of general applicability to changes of use:

1. When the use of a building is changed, then the building must be brought into compliance with the requirements of this section. Each of the lettered subsections of this section establishes a specific type of requirement. This section establishes requirements for compliance with the basic requirements of this subcode, for means of egress, for enclosure of vertical openings, for height and area limitation, for exterior wall fire resistance, for automatic sprinkler systems, for fire alarm systems, for fire detection systems, for structural soundness, for plumbing, electrical, and mechanical systems, and for accessibility.

i. Limit on new buildings undergoing a change of use: Buildings that have been occupied for their originally intended use for less than one year shall be required to comply with the requirements of the Uniform Construction Code for new construction for the proposed use.

2. The subsections governing compliance with the basic requirements, means of egress, height and area limitations, exterior wall fire resistance, and automatic sprinkler systems incorporate Relative Group Hazard Index Tables. Compliance with the requirements of the subsection is required when the change of use will increase the relative hazard. Each of the subsections should be applied separately to the proposed new use.

3. This section may require an owner to undertake work in order to be permitted to change the use of a building or a portion of a building. Additionally, the owner of a building may wish to undertake other work not required by the section. That work must comply with the requirements for repair, renovation, alteration, and/or reconstruction applicable to the new group in accordance with the provisions of this subcode.

4. Existing fire alarm, automatic sprinkler, standpipe, smoke control and emergency power systems shall not be removed without replacement and shall be maintained in operating condition. (Fire)

5. Where the character of use of an existing building or portion thereof is changed to one of the following special use or occupancy categories as defined in the building subcode, the building or portion shall comply with the referenced section of the building subcode specific to the special use or occupancy regardless of whether a change of use group is involved.

- i. Covered Mall Building—Section 402;
- ii. Atriums—Sections 404;
- iii. Underground Buildings—Section 405;
- iv. Motor-Vehicle-Related Occupancies—Section 406;
- v. Motion Picture Projection—Section 409;
- vi. Stages and Platforms—Section 410;
- vii. Special Amusement Buildings—Section 411:

(1) A variation shall not be granted for the flame spread and smoke development ratings of interior finish and trim requirements of section 413.0.

(2) For the use of a building as a special amusement building, where a variation request has been submitted, the Construction Official shall consult with the Fire Official as required by N.J.A.C. 5:23-6.2(i).

- viii. Aircraft-Related Occupancies—Section 412;
- ix. Hazardous Materials—Section 414;
- x. Application of Flammable Finished—Section 416;
- xi. Drying Rooms—Section 417;
- xii. Organic Materials—Section 418. (Plan review—Building, Fire. Inspection—Building.)

6. Any automatic sprinkler system or fire detection and/or alarm requirements applicable to the special use or occupancy shall be applied throughout the entire building unless the special use or occupancy is separated from the remainder of the building by fire separation assemblies having a rating of at least two hours. (Fire)

7. Group overnight stays: If any non-residential occupancy, other than Group F, H or S, accommodates seven or more non-consecutive group overnight stays within a calendar year for persons over 2½ years of age, and the activities involve planned periods of sleep, the building is considered to have undergone a change of use. In such a case, it shall be necessary to apply for and be issued a Certificate of Occupancy. This shall be a dual Certificate of Occupancy to allow Group R-1 in addition to the existing use of a building. Any facility that accommodates six or fewer overnight stays within a calendar year shall obtain a permit under the Uniform Fire Code, N.J.A.C. 5:70. Group overnight stays in Groups F, H and S shall be prohibited.

8. Where an existing single-family dwelling is converted into a two-family dwelling, the following shall apply:

i. Single or multiple smoke detectors shall be installed and maintained within each dwelling unit as required by Sections 907.2.10.1.2 and 907.2.10.1.3 of the building subcode.

ii. Fire separation between dwelling units.

(1) One-hour dwelling unit separation; or

(2) Two layers of 5/8-inch thick type X gypsum wallboard. The base layer shall be applied at right angles to the joists with 1¼-inch minimum drywall screws or nails at 24 inches on center. The face layer shall be applied at right angles to the joists with 1 - inch minimum drywall screws or nails at 12 inches on center. The face layer joints shall be offset from the base layer joints by a minimum of one joist bay. The joints of the face layer shall be taped and provided with a minimum of one layer of spackle.

(b) Compliance with Basic Requirements: Compliance with the basic requirements shall be required as follows:

TABLE B  
Relative Group Hazard

1 (highest)	H-1, H-2, H-3
2	A-1, A-2 Nightclubs, H-4, H-5, F-1, I-3, M, S-1
3	A-2 Other than Nightclubs, A-3, A-4, A-5, B, F-2, I-2, I-4, R-1, S-2
4	A-3 Churches, E, I-1, R-2 and R-4 buildings more than two stories in height or more than four dwelling units
5 (lowest)	R-2 and R-4 buildings two stories or fewer in height and four dwelling units or less, R-3, R-5, U

1. When the use of a building is changed to a higher relative group hazard as shown in Table B above, the building shall comply with the basic requirements of N.J.A.C. 5:23-6.10 through 6.30 applied throughout the building for the new group unless otherwise provided. Where another lettered subsection of this section establishes a requirement that differs from the basic requirement, the requirement contained in that other lettered subsection shall govern.

i. Where a portion of a building is changed to a higher relative group hazard, the building shall comply with the basic requirements of N.J.A.C. 5:23-6.10 through 6.30 for an automatic sprinkler system and fire detection and/or alarms applied throughout the building for the new group unless the proposed use is separated from the existing use(s) by assemblies with the appropriate fire resistance rating in accordance with Table 302.3.3 of the building subcode in which case only the portion changed shall comply. The portion of the building changed shall comply with all other basic

requirements of N.J.A.C. 5:23-6.10 through 6.30 for the new group.

2. When a change of use is made to an equal or lesser relative group hazard as shown in Table B above, the existing building is not required to comply with the basic requirements except where required in connection with alteration or reconstruction work by the sections of this subcode applicable to alteration or reconstruction work.

(c) Means of Egress: The following requirements apply to means of egress in a change of use:

TABLE C

Hazard Categories and Classifications  
Means of Egress

Relative Hazard	Use Classification
1 (highest)	H-1, H-2, H-3
2	I-2, I-3, I-4
3	A, E, I-1, M, R-1, R-2, R-4
4	B, F-1, R-3, R-5, S-1, H-4, H-5
5 (lowest)	F-2, S-2, U

1. For any change of use, except a change of use to Group A-2 Nightclubs, the occupant load of the space shall be calculated based on the capacity of the exits as per N.J.A.C. 5:23-6.11(b). The occupant load shall not exceed one occupant per five square feet floor area unless the building complies with Chapter 10 of the building subcode in its entirety.

i. For Group A-2 Nightclubs, the occupant load shall be calculated using Section 1008.1 of the building subcode, except the maximum occupant load shall not exceed one occupant per five square feet of occupiable floor space.

ii. Where a portion of a building undergoes a change of use, the determination of the capacity of the exit(s) serving that portion shall include all spaces served by those exit(s).

2. When a change in use is made to a higher hazard category as shown in Table C above, the entire building or portion thereof shall comply with the following requirements of the building subcode or of this subcode as specified below.

i. Sections 1003.2.10, (Exit signs), 1003.2.11, (Means of Egress illumination), and 1004.3.2.4 (Air movement in egress elements);

ii. Section 1003.3.1 (Doors) except sections 1003.3.1.1 (Size of doors). Apply the Basic Requirements (6.10 through 6.30) for door widths;

iii. Section 1003.3.2 (Gates);

iv. Section 1003.3.3 (Stairways) except 1003.3.3.1 (Stairway width), 1003.3.3.2 (Headroom), 1003.3.3.3, (Stair tread and riser) and 1003.3.3.11 (Handrails) Apply the Basic Requirements (6.10 through 6.30) for stair widths;

v. Section 1003.3.4 (Ramps);

vi. Section 1003.3.5 (Turnstiles);

vii. Sections 1004.2 (Exit access design requirements).

(1) Exception: The occupant load of the space may be restricted in order to comply with the requirements of these sections;

viii. Section 1004.3 (Exit access components) except 1004.3.2.2 (Corridor width). Apply the Basic Requirements (6.10 through 6.30) for corridor widths.

(1) Existing lath and plaster in good condition or existing 1/2-inch thick gypsum wallboard on both sides of the wall shall be accepted where a one-hour fire separation assembly is required by 1004.3.2.1 (Construction);

ix. Section 1005.2 (Exit design requirements).

(1) Exception: The occupant load of the space may be restricted in order to comply with the requirements of these sections;

x. Sections 1005.3.1 (Exterior exit doors), 1005.3.3 (Exit passageways), 1005.3.5 (Horizontal exits);

xi. Section 1006 (Exit discharge);

xii. Section 1007 (Miscellaneous means or egress requirements); and

xiii. Section 1008 (Assembly).

3. When a change of use is made to an equal or lesser hazard category as shown in Table C above, the existing building is not required to comply with the requirements contained in (c)2 above except in areas where reconstruction work being performed in connection with the change of use triggers these requirements.

4. Vertical opening protection shall be provided for all stairs in accordance with N.J.A.C. 5:23-6.10 through 6.30 when a change of use that also constitutes a change of group is made and the proposed group is a higher hazard category as shown in Table C above.

i. Where the group of a portion of a building is changed to a higher hazard category, vertical opening protection shall be provided for all stairs serving the proposed group from the floor(s) on which the proposed group is located to the level of exit discharge.

5. Notwithstanding the relative hazard as determined by Table C above, where any change of use occurs to a single exit building, the building shall meet the requirements of Section 1005.2.2 (single exits) of the building subcode for the proposed use.

6. When a change of use is made to any residential group (R-1, R-2, R-3, R-4 or R-5) or to Group I-1, every sleeping room below the fourth story shall have at least one operable window or exterior door. Where windows are provided to comply with this requirement, the window shall have a sill height of not more than 44 inches, and have a width of at least 20 inches, a height of at least 24 inches and a minimum total area of 5.7 square feet measured from head to sill and from side to side.

i. An outside window or exterior door is not required in buildings where the sleeping room is provided with a door to a corridor having access to two remote exits.

ii. An outside window or exterior door is not required in buildings equipped throughout with an automatic sprinkler system.

iii. In a building that originally was in Group R-3 or R-5 and is returning to Group R-3 or R-5, the windows shall be permitted to remain as they were during the time when the building previously was in use as a residence. (Plan review—Building, Fire. Inspection—Building)

7. Notwithstanding the relative hazard as determined by Table B or C above, where any change in use occurs to a Group A or Group E with an occupant load greater than 100, approved panic hardware shall be installed in accordance with Section 1003.1.9 of the building subcode.

(d) Enclosure of vertical openings:

1. For any change of use that also constitutes a change in group, vertical openings other than stairs shall be protected as required by N.J.A.C. 5:23-6.10 through 6.30 for the proposed use within each space undergoing a change of use.

2. Stairs shall be enclosed in accordance with N.J.A.C. 5:23-6.10 through 6.30 for the proposed use when a change of use that also constitutes a change of group is made and the proposed group is a higher hazard category as shown in Table C above.

3. Atriums in compliance with Section 404 of the building subcode are not required to be enclosed. (Plan review—Building, Fire. Inspection—Building)

(e) Height and Area Limitations: The following height and area limitations apply in a change of use.

TABLE E  
Hazard Categories and Classifications  
Height and Area

Relative Hazard	Use Classification
1 (highest)	A-2 Nightclubs, H-1, H-2, I-2, I-3, I-4
2	A-1, A-2 Other than Nightclubs, A-3, A-4, E, F-1, H-3, H-4, H-5, I-1, M, S-1
3	A-3 Churches, B, R-1, R-2, R-4
4 (lowest)	F-2, R-3, R-5, S-2, U

1. When a change of use is made to a higher hazard category as shown in Table E above, the height and area of the building shall meet the limitations of Chapter 5 of the building subcode for the proposed group.

i. For the purpose of determining the construction type, the fire resistance rating of the following structural elements shall be considered: exterior loadbearing walls, interior loadbearing walls, columns, girders, trusses and framing, floor construction, including beams, and roof construction, including beams, trusses and framing, arches and roof decks.

2. When a change of use is made to an equal or lesser hazard category as shown in Table E, the existing building may continue to exceed the maximum allowable height and area permitted for new buildings.

3. Where a change of use is made in a mixed use building or a single use building is changed to a mixed use building, and any of the proposed uses is a higher category as per Table E, the building shall comply with one or any combination of the following:

i. Nonseparated groups: The maximum allowable height and area shall be determined by applying the more restrictive of the height and area limitations of each group, as per Table 503 of the building subcode, to the entire building.

(1) Occupancies of Group H shall not be permitted to be unseparated when located in the same building as Groups A, E, I, M, R, or non-accessory Group B.

(2) Accessory occupancies in compliance with Section 302.2 of the building subcode are not required to comply with this requirement.

(3) When a change of use is made such that any nonresidential use is located below a residential use, a one-hour fire separation shall be provided between the groups. The exits from the residential floors shall be separately enclosed.

ii. Separated groups: Each portion of the building containing a group shall be completely separated from adjacent groups by fire separation assemblies and floor/ceiling assemblies having a fire resistance determined in accordance with Table 302.3.3 of the building subcode. For buildings equipped throughout with an

automatic sprinkler system, the required fire resistance rating for groups other than H is permitted to be reduced by one hour, but shall not be reduced to less than one hour. Each portion of the building shall comply with the height limitation of Table 503 of the building subcode for that group. In each story, the area shall be such that the sum of the ratios of the floor area of each group divided by the allowable area of Table 503 of the building subcode for each group shall not exceed 1.0.

(1) Exception: Accessory occupancies in compliance with Section 302.2 of the building subcode are not required to comply with this requirement.

iii. Separate buildings: If each group is separated from other groups by fire walls that meet the requirements of Table 601 of the building subcode, then each group shall be considered a separate building. Each building shall comply with the height and area limitation of Table 503 of the building subcode.

(1) Exception: Accessory occupancies in compliance with Section 302.2 of the building subcode are not required to comply with this requirement.

4. Change of use of an unlimited area building shall comply with the provisions of Section 507 of the building subcode for the proposed use. (Plan review—Building, Fire. Inspection-Building)

(f) Exterior Wall Fire Resistance Ratings and Maximum Area of Exterior Wall Openings: The following exterior wall fire resistance ratings and maximum area of exterior wall openings apply in changes of use:

TABLE F  
Hazard Categories and Classifications  
Exposure of Exterior Walls

Relative Hazard	Use Classification
1 (highest)	H
2	Buildings exceeding 12,000 sq ft of F-1, M or S-1
3	A, B, E, F-2, I, R-1, S-2 Buildings 12,000 sq ft or less of F-1, M or S-1
4 (lowest)	R-2, R-3, R-4, R-5, U

1. Exterior Wall Protection: If the group of a building is changed to a higher hazard classification in accordance with Table F, the requirements for exterior wall fire resistance rating in the table below shall be met.

Requirements for Exterior Wall Fire Resistance Rating Building Group<sup>b</sup>

Fire Separation Distance	A, B, E, F-2, S-2, H-4, H-5, I, R-1		
	H-2	F-1, H-3, M, S-1	H-4, H-5, I, R-1
0-5 feet	4	3	2 <sup>a</sup>
Over 5-10 feet	3	2	1
Over 10-15 feet	2	1	0

Fire Separation Distance	A, B, E, F-2, S-2, H-4, H-5, I, R-1		
	H-2	F-1, H-3, M, S-1	H-4, H-5, I, R-1
Over 15-30 feet	1	0	0
Over 30 feet	0	0	0

Note a: Existing eight-inch hollow or six-inch solid masonry walls shall be accepted as a two-hour rating in other than Group H-2 or H-3.

Note b: When the group of a building is changed to H-1, the building shall be located in accordance with Section 415.3 of the building subcode.

i. The requirements for exterior wall fire resistance rating shall not apply to exterior walls which face buildings on the same lot where the buildings are such that, if combined into one structure, the resulting building would comply with the height and area limitations of Table 503 of the building subcode.

ii. Where a portion of a building is changed to a higher hazard classification, exterior walls and openings of the entire building shall comply with the provisions of this section. If the proposed use is separated from the rest of the building by walls with the appropriate fire resistance rating in accordance with Table 302.3.3 of the building subcode, then only the portion changed must comply with the provisions of this section.

iii. When a change of use is made to an equal or lesser hazard classification as shown in Table F, no change in the rating of existing exterior walls is required.

iv. The fire resistance rating of non-loadbearing exterior walls may be reduced by one hour in buildings equipped throughout with an automatic sprinkler system. In a building equipped throughout with an automatic sprinkler system installed in accordance with NFPA 13, the fire resistance rating of a non-loadbearing exterior wall may be reduced by one hour with the following exceptions:

(1) Exception: Where the fire separation distance is five feet or less, the fire resistance rating shall not be reduced to less than one hour.

(2) Exception: The rating of non-loadbearing exterior walls shall not be reduced in buildings of Group H.

2. Exterior Wall Openings: If the group of a building is changed to a higher hazard classification in accordance with Table F, the requirements for exterior wall openings in the table below shall be met.

<u>Group</u>	<u>Exterior Wall Requirements</u>
A-1, A-2 Nightclubs, A-2 Other than Nightclubs, A-3, A-4, A-3 Churches, B, E, F-1, I-1, I-2, I-3, I-4, M, S-1, R-1	No openings permitted with a fire separation distance of three feet or less. Walls with a fire separation distance of 10 feet or less are permitted to have unprotected openings with an aggregate area not exceeding 10 percent of the area of the wall. Openings in excess of 10 percent of the aggregate wall area shall be protected.
F-2, S-2	No openings permitted with a fire separation distance of three feet or less. Protected openings required with a fire separation distance of five feet or less.

i. If the building is provided with an automatic sprinkler system throughout, the amount of unprotected openings shall be permitted to be increased to the limit for protected openings.

ii. In all occupancies other than Group H, unlimited unprotected openings are permitted in the first story of exterior walls facing a street which have a fire separation distance of greater than 15 feet, or facing unoccupied space. The unoccupied space shall be on the same lot or dedicated for public use, shall not be less than 30 feet in width and shall have access from a street by a posted fire lane not less than 30 feet in width and shall have access from a street by a posted fire lane not less than 18 feet in width.

iii. When a change of use is made to an equal or lesser hazard classification as shown in Table F, no change in existing exterior wall openings is required. (Plan review—Building, Fire. Inspection-Building)

(g) Automatic Sprinkler Systems: The following automatic sprinkler system requirements apply in changes of use.

Table G

Hazard Categories and Classifications  
Automatic Sprinkler Systems

<u>Relative Hazard</u>	<u>Use Classification</u>
1 (highest)	H, I
2	A-2 Nightclubs, R-1, R-2, R-4
3	A-1, A-2 Other than Nightclubs, A-3, A-4
4	F-1, M, S-1
5	A-3 Churches, E
6 (lowest)	A-5, B, F-2, R-3, R-5, S-2, U

1. When a change of use is made to a higher hazard category as shown in Table G, the building shall be provided with an automatic sprinkler system as required by the following sections of the building subcode: 903.2.1 for Group A occupancies, 903.2.2 for Group E occupancies, 903.2.3 for Group F-1 occupancies, 903.2.4 for Group H occupancies, 903.2.5 for Group I occupancies, 903.2.6 for Group M occupancies, 903.2.7 for Group R-1 occupancies, 903.2.8 for Group R-2, 903.2.9 for Group R-4, 903.2.10 for Group S-1, 903.2.11 for Group S-2, and 903.2.12.1 for windowless stories. When this section requires an automatic sprinkler system, compliance with 903.3 of the building subcode is also required.

i. When a portion of the building is changed to a higher hazard category and the proposed use is separated from the existing use(s) by assemblies that meet the applicable fire rating in Table 302.3.3 of the building subcode, an automatic sprinkler system as required above shall be installed only in the portion changed.

2. When a change of use is made to an equal or lesser hazard category as shown in Table G, there is no requirement to install an automatic sprinkler system except in areas where work being performed in connection with the change of use triggers a requirement for an automatic sprinkler system and in windowless stories in accordance with N.J.A.C. 5:23-6.30(c) of this subchapter.

3. Notwithstanding the relative hazard as determined by Table G, when a change in the character of the use is made to a higher degree of hazard as defined by NFPA 13 (Light Hazard, Ordinary Hazard Group 1, Ordinary Hazard Group 2, Extra Hazard Group 1, Extra Hazard Group 2 and Special Occupancy Hazards), the sprinkler system shall be evaluated and, where required by NFPA 13, altered to conform to the required density and maximum sprinkler protection area per head for the proposed occupancy. (Fire)

4. Notwithstanding the relative hazard as determined by Table G above, when a change in the group or a change in the character of the use is made to create a dormitory, the building or portion thereof is required to be provided with an automatic sprinkler system.

(h) Fire Alarm and Detection Systems: When a change of use is made to any of the following groups, a fire alarm system and/or an automatic fire detection system shall be installed in accordance with Section 907 of the building subcode. Where a portion of the building is changed to any of the following groups, a fire alarm system and/or an automatic fire detection system shall be installed throughout the building in accordance with Section 907 of the building subcode unless the proposed use is separated from the other use(s) in the building by assemblies with the appropriate fire resistance rating in accordance with Table 302.3.3 of the building subcode in which case only the portion changed shall comply. (For purposes of applying this section, horizontal separation shall not be considered.)

1. Group A: A manual fire alarm system shall be installed and maintained as required by Section 907.2.1 of the building subcode.

2. Group B: A manual fire alarm system shall be installed and maintained as required by Section 907.2.2 of the building subcode.

3. Group E: A manual fire alarm system shall be installed and maintained as required by Section 907.2.3 of the building subcode.

4. Group F: A manual fire alarm system shall be installed and maintained as required by Section 907.2.4 of the building subcode.

5. Group H: A manual fire alarm system shall be installed and maintained as required by Section 907.2.5 of the building subcode.

6. Group I: A manual fire alarm system and an automatic fire detection system shall be installed and maintained as required by Section 907.2.6 of the building subcode.

7. Group M: A manual fire alarm system shall be installed and maintained as required by Section 907.2.7 of the building subcode.

8. Group R-1: A manual fire alarm system and an automatic fire detection system shall be installed and maintained as required by Section 907.2.8 of the building subcode.

9. Group R-2: A fire alarm system shall be installed and maintained as required by Section 907.2.9 of the building subcode. (Fire)

(i) Single and Multiple Station Smoke Detectors: When a change of use is made to any of the following groups, single and multiple station smoke detectors shall be installed in accordance with Section 907.2.10 of the building subcode. Smoke detectors that are located closer than five feet to a kitchen or bathroom area shall be of the photoelectric type only.

1. Group R-1: Single or multiple station smoke detectors shall be installed and maintained as required by Section 907.2.10.1.1 of the building subcode.

2. Groups R-2, R-3, R-4, R-5 and I-1: Single or multiple station smoke detectors shall be installed and maintained as required by Sections 907.2.10.1.2 and 907.2.10.1.3 of the building subcode.

3. Where the use of a portion of a building is changed such that any nonresidential use is located below one or more dwelling units (including single room occupancies), single or multiple station smoke detectors shall be installed in the nonresidential portion(s) of the building in accordance with NFPA 72 and provided with an audible alarm located within each dwelling unit of the residential portion of the building. The detectors shall be AC powered with battery back-up. Hard-wired, interconnected smoke detectors installed throughout the building shall be accepted as meeting this requirement. (Fire)

(j) Carbon monoxide alarms: When the use of a building is changed to Groups I-1, R-1, R-2, R-3, R-4 or R-5 and the building contains a fuel-burning appliance or has an attached garage, carbon monoxide alarms shall be installed in accordance with the mechanical subcode. (Fire)

1. Exceptions: Rooms or dwelling units which do not themselves contain a fuel-burning appliance or have an attached garage, but which are located in a building with a fuel-burning appliance or an attached garage, need not be provided with single station carbon monoxide alarms provided that:

i. The room or dwelling unit is located more than one story above or below any story which contains a fuel-burning appliance or an attached garage; the room or dwelling unit is not connected by duct work or ventilation shafts to any room containing a fuel-burning appliance or to an attached garage; and the building is provided with a common area carbon monoxide alarm system. The individual alarms shall be located in every room adjacent to the room(s) containing a fuel-burning appliance, and in every corridor, hall or lobby adjacent to such room(s) and in the immediate vicinity of any ventilated shaft, including, but not limited to, stair shafts, elevator shafts, ventilation shafts on the story containing the fuel-burning appliance and any story within two stories above or below said story. All such common area alarm devices shall be connected to an alarm monitoring station or shall be interconnected; or

ii. The building is provided with a monitored carbon monoxide alarm system. Individual alarms shall be located in every room containing a fuel-burning appliance. All such alarms shall be connected to an alarm monitoring station that shall be staffed at all times by a person who is trained and qualified to respond so as to protect the health and safety of building occupants in the event of the activation of one or more alarms. Carbon monoxide alarms and fire alarms may be incorporated into a common monitored system.

2. Carbon monoxide alarms shall be manufactured, listed and labeled in accordance with UL 2034 and shall be installed in accordance with the requirements of this section and NFPA 720. Carbon monoxide alarms shall be battery-operated, hard-wired or of the plug-in type.

(k) Structural Requirements: The following structural requirements shall apply in changes of use:

TABLE K  
Structural Load Categories

Load Category	Use or Character of Use
1 (highest)	F-1, F-2, S-1, S-2, stack areas in libraries, stages and platforms, areas subject to vehicular loads, queuing areas
2	All loading conditions not listed in category 1 or 3
3 (lowest)	B, E, I-1, I-2, I-3, I-4, R-1, R-2, R-3, R-4, R-5

1. When the use or the character of use of a building is changed to a higher load category as shown in Table K above, then the structure shall be capable of supporting the load requirement for the new use or character of use as specified in Table 1607.1 of the building subcode.

i. If the building subcode official determines that the number of occupants or the placement and weight of furniture and equipment can be controlled by the occupants, the areas designed for the reduced live load shall be posted with the approved live load. Placards stating the allowable live loads shall be posted. Placards may state loads in forms usable by the occupants, in addition to posting the allowable load in pounds per square foot. Such information shall be developed by a licensed design professional and be approved by the subcode official.

(1) Analysis and test methods for evaluation of existing structural members shall use methods specified in the code in effect at the time the building was originally constructed or other standards as approved by the subcode official.

ii. The corridor and lobby loading requirements of Table 1607.1 shall be met only if the corridor exceeds six feet in width or if the lobby or corridor area is used for queuing purposes.

2. Where the use or character of use within an existing building is changed to an equal or lower load category as shown in Table K above, then the existing structure may be used without modification, provided that the building is structurally sound and in good structural repair.

3. When a change of use results in a building being reclassified into one of the following occupancies, the building shall comply with the seismic design requirements of Section 1613 through 1617 of the building subcode: Fire, rescue and police station; Group I-2 having surgery or emergency treatment facilities; emergency preparedness centers; post-earthquake recovery vehicle garages; power-generating stations and other utilities required as emergency backup facilities; primary communication facilities; highly toxic materials as defined by Section 307 of the building subcode where the quantity of material exceeds the exempt amount as per Section 307.9 of the building subcode. (Building)

(l) Plumbing Requirements: When the character of the use of a building or portion of a building is changed, the following plumbing provisions shall apply:

1. The fixture requirements for the proposed new use shall comply with the basic requirements for that use.

2. If the new use is a food handling establishment, all existing sanitary waste lines above the food or drink preparation or storage areas shall be panned or otherwise protected to prevent leaking pipes or condensation on pipes from contaminating food or drink. New drainage lines shall not be installed above such areas except where it is the only practical alternative. Where new lines are to be installed, they shall be protected in accordance with the plumbing subcode.

3. New uses that will produce grease or oil laden wastes shall be provided with interceptors as required in the plumbing subcode.

4. If the new use produces chemical wastes, the following shall apply:

i. If the existing piping is compatible with the chemical waste, no change to the existing piping material is required.

ii. If the existing piping is not compatible with the chemical waste, either the waste must be neutralized prior to entering the drainage system or the piping must be changed to a compatible material.

iii. No chemical waste shall discharge to a public sewer system without the approval of the sewage authority.

5. Where a building's use is changed to a health care facility, the requirements of chapter 14 of the plumbing subcode shall apply. (Plumbing)

(m) Electrical Requirements: The following electrical requirements shall apply in changes of use:

1. When the character of the use of a building or portion thereof is changed to one of the following special occupancies as described in Chapter 5 of the electrical subcode, the electrical wiring and equipment of the building or portion thereof that contains the proposed use shall comply with all applicable requirements of the electrical subcode regardless of whether a change of group is involved:

- i. Hazardous (classified) Locations;
- ii. Commercial Garages, Repair and Storage;
- iii. Aircraft Hangars;
- iv. Gasoline Dispensing and Service Stations;
- v. Bulk Storage Plants;
- vi. Spray Application, Dipping, and Coating Processes;
- vii. Health Care Facilities;
- viii. Places of Assembly;
- ix. Theaters, Audience Areas of Motion Picture and Television Studios and Similar Locations;
- x. Motion Picture and Television Studios and Similar Locations; and
- xi. Agricultural Buildings.

2. When the use of a building is changed to Group R-2, R-3, R-4 or R-5, the electrical wiring and equipment of the building shall comply, at a minimum, with the Basic Requirements of this subcode for that use and shall have the electrical service (conductors and equipment)

sized and rated in accordance with the electrical subcode. (Electrical)

(n) Mechanical Requirements: When the character of the use of a building is changed, the following mechanical provisions shall apply:

1. All spaces intended for human occupancy shall be provided with natural or mechanical ventilation. A building intended to be used as a public school shall be mechanically ventilated.

i. Spaces intended to be naturally ventilated shall be provided with openable doors, windows, louvers or other openings to the outdoors. The minimum openable area to the outdoors shall be four percent of the floor area being ventilated. Where rooms without openings to the outdoors are ventilated through an adjoining room, the unobstructed opening to the adjoining room shall be at least eight percent of the floor area of the interior room or space, but not less than 25 square feet. The ventilation openings to the outdoors shall be based on the total floor area being ventilated.

ii. Spaces intended to be mechanically ventilated shall comply with the following:

(1) If the occupancy of a building is changed and the new occupancy would require the same or a lesser amount of outdoor air based on the equations below, no change to the mechanical ventilation system is required.

(2) If the occupancy of a building is changed and the new occupancy would require a greater amount of outdoor air based on the equations below, the HVAC system shall be upgraded to satisfy the requirements of Table N below for the new occupancy. As an alternative to providing the amount of outdoor air required by Table N below, the indoor air quality procedure of ASHRAE 62-89 can be used.

(3) Residential buildings that are intended to be mechanically ventilated shall be provided with the ventilation specified in the mechanical subcode.

(4) When the use of a building is changed to a health care facility, mechanical ventilation shall be provided as required by the mechanical subcode and N.J.A.C. 5:23-3.2(b).

(5) When the group of a building is changed to B or E and the building is a class one or class two building, a test and balance report shall be submitted prior to the issuance of a certificate of occupancy. (Building)

2. A commercial hood and an automatic sprinkler system that comply with the mechanical subcode shall be required for commercial cooking equipment producing grease-laden vapors, except in Groups R-2, R-3, R-4 and R-5. No automatic sprinkler system shall be required for completely enclosed ovens, steam tables or similar equipment.

i. Exception: Bed and breakfast home stay facilities, which are designed to accommodate five or fewer guests, shall not be required to comply with this provision. (Fire)

3. All newly-introduced devices, equipment or operations that produce airborne particulates, odors, fumes, sprays, vapors, smoke or gases in such quantities as to be irritating or injurious to health shall be provided with local exhaust in accordance with Section 502 of the mechanical subcode. (Building)

TABLE N  
Outdoor Air Rates Based on Occupancy Type

Occupancy	P/1,000 sq. ft.	CFM/ person
Storage Warehouses	5	10
Correction Facilities		
Dining Halls	100	15
Guard Stations	40	15
Dry Cleaners, laundries		
Coin oper dry cleaner	20	15
Coin oper laundries	20	15
Education		
Auditoriums	150	15
Classrooms	50	15
Libraries	20	15
Music Rooms	50	15
Food & Bev Service		
Dining Rooms	70	15
Kitchens (cooking)	20	15
Hospitals, Nursing & Convalescent Homes		
Med Procedure Rooms	20	15
Physical Therapy	20	15
Recovery and ICU	20	15
Hotels, Motels, Resorts, Dormitories		
Assembly Rooms	120	15
Dormitory Sleep Areas	20	15
Lobbies	30	15
Specialty Shops		
Barber	25	15
Florists	8	15
Hardware, drug, fabric	8	15
Reducing Salons	20	15
Supermarkets	8	15
Theaters		
Auditoriums	150	15
Stages and Studios	70	15
Transportation		
Platforms	100	15
Vehicles	150	15
Waiting Rooms	100	15
Workrooms		
Bank Vaults	5	15

Occupancy	P/1,000 sq. ft.	CFM/ person	Occupancy	P/1,000 sq. ft.	CFM/ person
Meat Processing <sup>a</sup>	10	15	Convalescent Homes		
Pharmacy	20	15	Operating Rooms	20	30
Photo Studios	10	15			
Sports and Amusement			Hotels, Motels, Resorts, Dormitories		
Spectator Areas	150	15	Gambling Casinos	120	30
Correctional Facilities				CFM/ sq. ft.	
Cells	20	20	Occupancy		
Education			Education		
Laboratories	50	20	Corridors	0.1	
Training Shops	30	20	Locker Rooms	0.5	
Food & Bev Service			Hospitals, Nursing and Convalescent Homes		
Cafeteria, fast food	100	20	Autopsy Rooms	0.5	
Hotels, Motels, Resorts, Dormitories			Public Spaces		
Conference Rooms	50	20	Corridors and Utilities	0.05	
Dry Cleaners			Elevators	1.0	
Commercial Laundry	10	25	Locker & Dressing Rooms	0.5	
Hospitals, Nursing and Convalescent Homes			Public Restrooms	75 cfm per water closet or urinal	
Patient Rooms	10	25	Retail Stores, Sales Floors and Showroom Floors		
Specialty Shops			Basement and Street	0.3	
Beauty	25	25	Dressing Rooms	0.2	
Dry Cleaners, Laundries			Malls and Arcades	0.2	
Commercial Dry Cleaner	30	30	Shipping and Receiving	0.15	
Food & Bev Service			Storage Rooms	0.15	
Bars & Cocktail Lounges	100	30	Upper Floors	0.2	
Dry Cleaners, Laundries			Warehouses	0.05	
Storage, Pick-up	30	35	Specialty Shops		
Smoking Lounges	70	60	Automotive Service	1.5	
Offices			Clothes and Furniture	0.3	
Conference Rooms	50	20	Pet Shops	1.0	
Office Spaces	7	20	Sports & Amusement		
Reception Areas	60	20	Ice Arenas	0.5	
Telecommunication Ctrs & Data Entry	60	20	Swimming Pools (Pool & Deck Area)	0.5	
Theaters			Storage		
Lobbies	150	20	Repair Garages/Public Garages	1.5	
Ticket Booths	60	20	Workrooms		
Sports and Amusement			Darkrooms	0.5	
Playing floors (gym)	30	20	Duplicating	0.5	
Sports and Amusement			Note: P/1,000 sq. ft. = persons per 1,000 square feet of building area.		
Ballrooms and Discos	100	25	Note a. Spaces unheated or maintained below 50 degrees F are not covered by these requirements unless the occupancy is continuous.		
Bowling Alleys (Seating areas)	70	25	Where the ventilation rates in Table N are based on CFM/person		
Game Rooms	70	25	(1) $OL_n \times V_n$ is less than or equal to $OL_e \times V_e$ + no upgrade		
Hospitals, Nursing &			+ upgrade		
			Where the ventilation rates in Table N are based on CFM/square footage		
			(3) $SF_n \times V_n$ is less than or equal to $SF_e \times V_e$ + no upgrade		
			+ upgrade		
			Where the ventilation rates in Table N are based on CFM/square footage and CFM/person		
			(5) $OL_n \times V_n$ is less than or equal to $SF_e \times V_e$ + no upgrade		
			+ upgrade		
			(7) $SF_n \times V_n$ is less than or equal to $OL_e \times V_e$ + no upgrade		
			+ upgrade		
			(8) $SF_n \times V_n$ is greater than $OL_e \times V_e$ + upgrade		
			Where:		

- OL<sub>n</sub> = the occupant load of the proposed occupancy based on Table N. When accepted by the administrative authority this occupant load can be reduced.
- OL<sub>e</sub> = the occupant load of the existing occupancy based on Table N.
- SF<sub>n</sub> = the square footage of the proposed occupancy.
- SF<sub>e</sub> = the square footage of the existing occupancy.
- V<sub>n</sub> = the ventilation rate for the proposed occupancy based on Table N.
- V<sub>e</sub> = the ventilation rate for the existing occupancy based on Table N.

(o) Accessibility Requirements: The following accessibility requirements shall apply in changes of use:

1. The change of use of a building of 10,000 square feet or more total gross enclosed floor area shall comply with all applicable provisions of the barrier free subcode, N.J.A.C. 5:23-7.

2. The change of use of a building of less than 10,000 square feet total gross enclosed floor area shall be exempt from the provisions of the barrier free subcode, except as follows:

i. An alteration project undertaken in connection with the change of use of a small building shall provide accessibility as required by N.J.A.C. 5:23-6.6.

ii. A reconstruction project undertaken in connection with the change of use of a small building shall provide accessibility as required by N.J.A.C. 5:23-6.7.

3. In a building of any size, where there is a change of use of an area of 10,000 square feet or more, the proposed new use shall comply with the requirements of the barrier free subcode, N.J.A.C. 5:23-7.

4. In a building of any size, where there is a change of use of an area of less than 10,000 square feet, the proposed new use shall be exempt from the provisions of the barrier free subcode, except as follows:

i. A renovation project undertaken in connection with the change of use of a small building shall provide accessibility as required by N.J.A.C. 5:23-6.5.

ii. An alteration project undertaken in connection with the change of use of a small building shall provide accessibility as required by N.J.A.C. 5:23-6.6.

iii. A reconstruction project undertaken in connection with the change of use of a small building shall provide accessibility as required by N.J.A.C. 5:23-6.7. (Building)

(p) Change of use to a bed and breakfast shall be done in compliance with N.J.A.C. 5:23-9.8. (Plan review Building,—Fire. Inspection—Building)

Administrative correction.

See: 30 N.J.R. 539(a).

Amended by R.1999 d.259, effective August 16, 1999.

See: 31 N.J.R. 825(a), 31 N.J.R. 2330(a).

Inserted (k); and recodified existing (k) through (p) as (l) through (q).

Amended by R.1999 d.424, effective December 6, 1999.

See: 31 N.J.R. 2428(a), 31 N.J.R. 4001(c).

In (c), rewrote 4; rewrote (d); in (e)1, inserted a new i and recodified former i as ii; in (f)1, changed fire prevention code reference in Note b, and rewrote i; in (g)1, added the last sentence in the introductory paragraph; in (h) and (i), inserted references to section 924.2 throughout the introductory paragraphs; in (j), added the last sentence in the introductory paragraph; and in (o), added "(Building)" at the end of 1ii(5), and substituted "(Fire)" for "(Building)" at the end of 2i.

Administrative correction.

See: 32 N.J.R. 688(a).

Amended by R.2000 d.492, effective December 18, 2000.

See: 32 N.J.R. 3219(a), 32 N.J.R. 4437(b).

In (a), rewrote 4; in (f)2, rewrote Use Group table; in (i), added 6; in (o), added 3 and in Table N amended the square foot values for Corridors and Utilities under Public Spaces.

Amended by R.2002 d.5, effective January 7, 2002.

See: 33 N.J.R. 3392(a), 34 N.J.R. 267(a).

In (b), rewrote 3; in (c), rewrote 1, inserted new iii and recodified existing iii through xii as iv through xiii in 2.

Amended by R.2002 d.15, effective January 22, 2002.

See: 33 N.J.R. 2933(b), 33 N.J.R. 3883(a), 34 N.J.R. 521(a).

In (k), inserted the last sentence preceding "(Fire)" in the introductory paragraph, and rewrote 1.

Amended by R.2002 d.255, effective August 5, 2002.

See: 33 N.J.R. 4177(a), 34 N.J.R. 2783(a).

In (a), added 5 through 7; in (b), deleted 3 and 4.

Amended by R.2003 d.137, effective April 7, 2003.

See: 34 N.J.R. 4277(a), 35 N.J.R. 1558(c).

Rewrote (k).

Amended by R.2003 d.157, effective April 21, 2003.

See: 34 N.J.R. 4247(a), 35 N.J.R. 1663(b).

In (a)5x, added (1) through (3).

Amended by R.2003 d.218, effective May 19, 2003.

See: 35 N.J.R. 29(a), 35 N.J.R. 2209(a).

Rewrote the section.

Amended by R.2004 d.145, effective April 5, 2004.

See: 35 N.J.R. 5190(a), 36 N.J.R. 1758(a).

Rewrote the section.

Administrative correction.

See: 36 N.J.R. 3398(a).

Amended by R.2004 d.423, effective November 15, 2004.

See: 36 N.J.R. 3004(a), 36 N.J.R. 5090(a).

In (a), deleted former (1), recodified former (2) and (3) as (1) and (2), in 5.

Administrative correction.

See: 36 N.J.R. 5337(a).

### 5:23-6.32 Additions

(a) Any addition to a building or structure shall comply with the requirements of the Uniform Construction Code applicable to new construction.

1. Any repair, renovation, alteration or reconstruction work undertaken within an existing building in connection with an addition shall comply with the requirements of this subchapter.

(b) No addition shall create or extend any non-conformity in the existing building to which the addition is constructed with regard to accessibility, structural strength, egress capacity, exit access travel distance or the capacity of mechanical, plumbing, electrical or fire protection system provisions of the basic requirements of this subcode.

(c) No addition shall increase the height of an existing building beyond that permitted under the applicable provisions of the building subcode for a new building of the same group. (Plan review—Building, Fire. Inspection—Building)

(d) No addition shall increase the area of an existing building beyond that permitted under the applicable provi-

sions of the building subcode unless a fire wall is provided in accordance with Section 705 of the building subcode.