

3.11 In Section 321.4, Residential pool and deck illumination, "or the International Residential Code, as applicable in accordance with Section 102.7.1" shall be deleted.

4. Chapter 4, Public swimming pools, shall be amended as follows:

4.1 In Section 410.1, Dressing and sanitary facilities, "International Plumbing Code" shall be deleted and "plumbing subcode (N.J.A.C. 5:23-3.15)" shall be inserted.

5. Amendments to Chapter 6, Aquatic recreation facilities, shall be amended as follows:

5.1 In Section 601.1, Scope, the following sentence shall be added to the end of the paragraph, "For purposes of enforcement, Class D-2 and Class D-6 public pools shall be regulated by this chapter and N.J.A.C. 5:23; all other Class D public pools shall be regulated by N.J.A.C. 5:14A."

5.2 In Section 609.1, General, "Section 609.2 through 609.9" shall be deleted and "the plumbing subcode (N.J.A.C. 5:23-3.15)" shall be inserted.

5.3 Sections 609.2, Number of fixtures, 609.3, Showers, 609.4, Soap dispensers, 606.5, Toilet tissue holder, 609.6, Lavatory mirror, 606.7, Sanitary napkin receptacles, 609.8, Sanitary napkin dispensers, and 609.9, Infant Care, shall be deleted.

4. Chapter 4, Foundations, shall be amended as follows:

i. In Section R401.1, Application, "as established by Table R301.2(1)" shall be deleted.

ii. In Table R401.4.1, Presumptive Load Bearing Values of Foundation Materials, "12,000; 4,000; 3,000; 2,000; and 1,500" shall be deleted and "12,000; 6,000; 5,000; 3,000; and 2,000" shall be inserted.

iii. Section R403.1.4, Minimum depth, shall have the following exceptions added:

"Exceptions:

1. Accessory garden-type utility sheds and similar structures that are 100 square feet or less in area, 10 feet or less in height and does not contain a water, gas, oil or sewer connection. These structures shall be of sufficient weight to remain in place or shall be anchored to the ground.

2. Accessory garden-type utility sheds and similar structures that are greater than 100 square feet, but not more than 200 square feet in area, and 10 feet or less in height, provided the shed is dimensionally stable without the foundation system and does not contain a water, gas, oil or sewer connection. A shed shall be considered dimensionally stable if it is

provided with a floor system that is tied to the walls of the structure such that it reacts to loads as a unit. These structures shall be of sufficient weight to remain in place or shall be anchored to the ground."

iv. In Section R403.1.4.1, Frost protection, the exception shall be deleted and the following shall be inserted:

Exception: Free standing buildings meeting all of the following conditions shall not be required to be protected:

1. Buildings and other structures that represent a low hazard to human life in the event of failure, including but not limited to, agricultural buildings, temporary buildings and minor storage facilities.

2. Area of 600 square feet (56 m²) or less for light framed construction, or 400 square feet (37 m²) or less for other than light-framed construction; and

3. Eave height of 10 feet (3048 mm) or less.

v. In Section R403.3.3, Drainage, "Table R405.1" shall be deleted and "Table R406.1" shall be inserted.

vi. In Section 404.2.5, Drainage and dampproofing, delete "Sections R405 and R406, respectively." and insert "Section R406."

vii. In Table R404.1.1(1), Note B; Table R404.1.1(2), Note D; Table R404.1.1(3), Note D; Table R404.1.1(4), Note D; Table R404.1.2(2), Note A; Table R404.1.2(3), Note A; Table R404.1.2(4), Note A; Table R404.1.2(5), Note A; Table R404.1.2(6), Note A; Table R404.1.2(7), Note A; and Table R404.1.2(8), Note A, "Table R405.1" shall be deleted and "Table R406.1" shall be inserted.

viii. In Section 404.4, Retaining walls, in the first sentence, "that are not laterally supported at the top and that retain in excess of 48 inches (1219 mm) of unbalanced fill, or retaining walls exceeding 24 inches (610 mm) in height that resist lateral loads in addition to soil" shall be deleted and "for which a construction permit is required by N.J.A.C. 5:23-2.14" shall be inserted.

ix. Sections R405, Foundation Drainage, with the exception of Table R405.1, which shall be renumbered as "Table R406.1", and R406, Foundation Waterproofing and Dampproofing, shall be deleted and the text of Section 1805, Dampproofing and Waterproofing from the building subcode shall be inserted as follows:

"R406.1 General. Walls or portions thereof that retain earth and enclose interior spaces and floors below grade shall be waterproofed and dampproofed in accordance with this section, with the exception of those spaces containing

groups other than residential and institutional where such omission is not detrimental to the building or occupancy.

Ventilation for crawl spaces shall comply with Section R408.

R406.1.1 Story above grade plane. Where a basement is considered a story above grade and the finished ground level adjacent to the basement wall is below the basement floor elevation for 25 percent or more of the perimeter, the floor and walls shall be dampproofed in accordance with Section R406.2 and a foundation drain shall be installed in accordance with Section R406.4.1. The foundation drain shall be installed around the portion of the perimeter where the basement floor is below ground level. The provisions of Sections R406.3 and R406.4.1 shall not apply in this case.

R406.1.2 Under-floor space. The finished ground level of an under-floor space such as a crawl space shall not be located below the bottom of the footings. Where there is evidence that the ground water table rises to within 6 inches (152 mm) of the ground level at the outside building perimeter, or that the surface water does not readily drain from the building site, the ground level of the under-floor space shall be as high as the outside finished ground level, unless an approved drainage system is provided. The provisions of Sections R406.2, R406.3 and R406.4 shall not apply in this case.

R406.1.2.1 Flood hazard areas. For buildings and structures in flood hazard areas as established in Section R322, the finished ground level of an under-floor space such as a crawl space shall be equal to or higher than the outside finished ground level on at least one side.

Exception: Under-floor spaces that meet the requirements of FEMA TB-11.

R406.1.3 Ground-water control. Where the groundwater table is lowered and maintained at an elevation not less than 6 inches (152 mm) below the bottom of the lowest floor, the floor and walls shall be dampproofed in accordance with Section R406.2. The design of the system to lower the ground-water table shall be based on accepted principles of engineering that shall consider, but not necessarily be limited to, permeability of the soil, rate at which water enters the drainage system, rated capacity of pumps, head against which pumps are to operate and the rated capacity of the disposal area of the system.

R406.2 Dampproofing. Where hydrostatic pressure will not occur, floors and walls for other than wood foundation systems shall be dampproofed in accordance with this section. Wood foundation systems shall be constructed in accordance with AWC PWF.

R406.2.1 Floors. Dampproofing materials for floors shall be installed between the floor and the base course required by Section R406.4.1, except where a separate floor is provided above a concrete slab.

Where installed beneath the slab, dampproofing shall consist of not less than 6-mil (0.006 inch; 0.152 mm) polyethylene with joints lapped not less than 6 inches (152 mm), or other approved methods or materials. Where permitted to be installed on top of the slab, dampproofing shall consist of mopped-on bitumen, not less than 4-mil (0.004 inch; 0.102 mm) polyethylene, or other approved methods or materials. Joints in the membrane shall be lapped and sealed in accordance with the manufacturer's installation instructions.

R406.2.2 Walls. Dampproofing materials for walls shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to above ground level.

Dampproofing shall consist of a bituminous material, 3 pounds per square yard (16N/m²) of acrylic modified cement, 1/8-inch (3.2 mm) coat of surface-bonding mortar complying with ASTM C 887, any of the materials permitted for waterproofing by Section R406.3.2, or other approved methods or materials.

R406.2.2.1 Surface preparation of walls. Prior to application of dampproofing materials on concrete walls, holes and recesses resulting from the removal of form ties shall be sealed with a bituminous material or other approved methods or materials. Unit masonry walls shall be parged on the exterior surface below ground level with not less than 3/8 inch (9.5 mm) of portland cement mortar. The parging shall be coved at the footing.

Exception: Parging of unit masonry walls is not required where a material is approved for direct application to the masonry.

R406.3 Waterproofing. Where the ground-water investigation indicates that a hydrostatic pressure condition exists, and the design does not include a ground-water control system as described in Section R406.1.3, walls and floors shall be waterproofed in accordance with this section.

R406.3.1 Floors. Floors required to be waterproofed shall be of concrete and designed and constructed to withstand the hydrostatic pressures to which the floors will be subjected.

Waterproofing shall be accomplished by placing a membrane of rubberized asphalt, butyl rubber, fully adhered/fully bonded HDPE or polyolefin composite membrane or not less than 6-mil (0.006 inch; 0.152 mm) polyvinyl chloride with joints lapped not less than 6 inches (152 mm) or other approved materials under the slab. Joints in the membrane shall be lapped and sealed in accordance with the manufacturer's installation instructions.

R406.3.2 Walls. Walls required to be waterproofed shall be of concrete or masonry and shall be designed and constructed to withstand the hydrostatic pressures and other lateral loads to which the walls will be subjected.

ii. Appendix D, Recommended Procedure for Safety Inspection of an Existing Appliance Installation; Appendix E, Manufactured Housing Used as Dwellings; Appendix F, Passive Radon Gas Controls Methods; and Appendix G, Piping Standards for Various Applications, are deleted in their entirety.

iii. Appendix H, Patio Covers, and Appendix K, Sound Transmission, shall be adopted as part of this subcode.

iv. Appendix I, Private Sewage Disposal; Appendix J, Existing Buildings and Structures; Appendix L, Permit Fees; Appendix M, Home Day Care - R-3 Occupancy; Appendix N, Venting Methods; Appendix O, Automatic Vehicular Gates; Appendix P, Sizing of Water Piping Systems; and Appendix Q, Reserved, shall be deleted.

v. Appendix R, Light Straw-Clay Construction, and Appendix S, Strawbale Construction, shall be adopted as part of this subcode.

vi. Appendix T, Recommended Procedure For Worst-Case Testing Of Atmospheric Venting Systems Under N1102.4 or N1105 Conditions $\leq 5ACH_{50}$, and Appendix U, Solar-Ready Provisions—Detached One-And Two-Family Dwellings, Multiple Single-Family Dwellings (Townhouses), shall be deleted in their entirety.

New Rule, R.1985 d.324, effective July 1, 1985.

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

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.388, effective August 1, 1988.

See: 20 N.J.R. 1130(a), 20 N.J.R. 2073(b).

Added (c).

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

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

References to 1989 Supplement added; (b)1ii(5), 2, 4, 8 and 9 amended; (b)5, 6 and 7 added; (c) deleted; Table R-201.2 added.

Amended by R.1991 d.571, effective November 18, 1991.

See: 23 N.J.R. 2619(a), 23 N.J.R. 3444(b).

Added new (c).

Amended by R.1992 d.208, effective May 18, 1992.

See: 24 N.J.R. 680(a), 24 N.J.R. 1879(a).

Code provisions applicable to flood hazard zones clarified.

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.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.166, effective April 17, 2000.

See: 31 N.J.R. 4151(a), 32 N.J.R. 1376(a).

In (c)4, substituted "more pressure than would be exerted by backfill" for "lateral pressure from soils" following "subject to" in ii, and substituted "drainage" for "designated disposal" preceding "system" and added "according to the Unified Soil Classification System, Group I Soils" at the end of iii; and inserted (c)9iv.

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), inserted "that are" following "type 5B construction", "no more" preceding "than 4,800 square feet", and substituted "seven feet" for "7 1/3 feet (2,235 mm.)."

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.2003 d.420, effective November 3, 2003.

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

Rewrote (c).

Amended by R.2005 d.403, effective November 21, 2005.

See: 37 N.J.R. 2753(a), 37 N.J.R. 4399(b).

Rewrote (c).

Amended by R.2006 d.28, effective January 17, 2006.

See: 37 N.J.R. 2750(a), 38 N.J.R. 485(b).

Rewrote (c)15.

Administrative correction.

See: 38 N.J.R. 926(a).

Amended by R.2006 d.75, effective February 21, 2006.

See: 37 N.J.R. 3110(a), 38 N.J.R. 1183(a).

Added (c)10; recodified former (c)10-15 as (c)11-16.

Administrative correction.

See: 38 N.J.R. 1827(b).

Amended by R.2007 d.65, effective February 20, 2007.

See: 38 N.J.R. 3348(a), 39 N.J.R. 633(a).

Rewrote (a) and (c).

Amended by R.2007, d.384, effective December 17, 2007.

See: 39 N.J.R. 2684(a), 39 N.J.R. 5211(a).

Added new (c)17; and recodified existing (c)17 through (c)22 as (c)18 through (c)23.

Amended by R.2008 d.84, effective April 7, 2008.

See: 39 N.J.R. 5144(a), 40 N.J.R. 1827(a).

Deleted former (c)3xxviii; recodified former (c)3xix through (c)3xxxi as (c)3xviii through (c)3xxx; in the introductory paragraph of (c)4, inserted a comma following "Foundations"; and in (c)4iii, added the second sentence.

Administrative correction.

See: 40 N.J.R. 1829(a).

Amended by R.2009 d.48, effective February 2, 2009.

See: 40 N.J.R. 5319(a), 41 N.J.R. 733(b).

In (c)3xxvii, inserted the final sentence; recodified the former second occurrence of (c)3xxiii as (c)3xxviii; added new (c)4iii; recodified former (c)4iii and (c)4iv as (c)4iv and (c)4v; added new (c)4vi; recodified former (c)4v through (c)4vii as (c)4vii through (c)4ix; added (c)5iii; in (c)8i, inserted "(N.J.A.C. 5:23-3.15)"; in (c)9iii, deleted "Figure R1003.11 and" following "In"; added new (c)19ix; recodified former (c)19ix through (c)19xiii as (c)19x through (c)19xiv; and rewrote (c)23iv.

Amended by R.2009 d.126, effective April 20, 2009.

See: 41 N.J.R. 16(a), 41 N.J.R. 1725(a).

Added new (c)4ii; and recodified former (c)4ii through (c)4ix as (c)4iii through (c)4x.

Amended by R.2010 d.195, effective September 7, 2010.

See: 41 N.J.R. 3140(a), 42 N.J.R. 2043(a).

Rewrote (a) and (c).

Amended by R.2011 d.269, effective November 7, 2011.

See: 43 N.J.R. 904(a), 43 N.J.R. 3008(a).

Added new (c)3vii; deleted former (c)3xxii; recodified former (c)3vii through (c)3xxi as (c)3viii through (c)3xxii; added new (c)19xii; and recodified former (c)19xii through (c)19xv as (c)19xiii through (c)19xvi. Special amendment, R.2014 d.161, effective October 1, 2014 (to expire May 12, 2015).

See: 46 N.J.R. 2186(a).

Rewrote (c)3.

Adopted concurrent amendment, R.2015 d.077, effective April 15, 2015.

See: 46 N.J.R. 2186(a), 47 N.J.R. 989(b).

Provisions of R.2014 d.161 adopted without change.

Amended by R.2015 d.139, effective September 21, 2015.

See: 47 N.J.R. 9(a), 47 N.J.R. 2352(b).

Rewrote the section.

5:23-3.22 Fuel gas subcode

(a) Rules concerning the fuel gas subcode adopted are as follows:

1. Pursuant to authority of P.L. 1975, c. 217, the Commissioner hereby adopts the model code of the International Code Council, Inc., known as the International Fuel Gas Code/2015. This code is hereby adopted by reference as the fuel gas subcode for the State of New Jersey subject to the modifications in (b) below.

i. Copies of this code may be obtained from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795.

ii. The International Fuel Gas Code/2015 may be known and cited as the "fuel gas subcode."

2. Any references to the International Plumbing Code or the International Existing Building Code listed in Chapter 8 shall be considered a reference to the appropriate plumbing subcode in N.J.A.C. 5:23-3 or rehabilitation subcode in N.J.A.C. 5:23-6.

3. Anywhere the term "code" appears, shall be a reference to "subcode" as defined in N.J.A.C. 5:23-1.4 for any of the adopted national model codes as appropriate.

(b) The following chapters, sections, or pages of the International Fuel Gas Code/2015 shall be amended as follows:

1. Chapter 1 of the fuel gas subcode, entitled "Scope and Administration," is deleted in its entirety.

2. Chapter 2 of the fuel gas subcode, entitled "Definitions," is amended as follows:

i. In Section 201.3, Terms defined in other codes, delete "International Plumbing Code," and insert "the plumbing subcode (N.J.A.C. 5:23-3.15)."

ii. The definition of the term "alteration" is deleted.

iii. The definition of the term "approved" is deleted and the following shall be inserted: "Approved refers to approval by the building subcode official or other authority having jurisdiction in accordance with the regulations."

iv. In the definition of "approved agency," "or other authority having jurisdiction in accordance with the Uniform Construction Code" shall be inserted after "official."

v. The definition of the term "code" is deleted.

vi. The definition of the term "code official" is deleted.

vii. In the definition of "dwelling unit," "living as a single housekeeping unit" shall be inserted after "persons."

viii. The definition of the term "unlisted boiler" is deleted.

3. Chapter 3 of the fuel gas subcode, entitled "General Regulations," shall be amended as follows:

i. Section 301.1, Scope, is amended to delete the words "in accordance with Section 101.2."

ii. In Section 301.3, Listed and labeled, "in accordance with Section 105," shall be deleted. In addition, the second sentence shall be deleted in its entirety.

iii. In Section 301.6, Plumbing connections, "International Plumbing Code," shall be deleted and "the plumbing subcode (N.J.A.C. 5:23-3.15)," shall be inserted.

iv. Section 301.9, Repair, is deleted.

v. Section 305.1, General, delete the second paragraph in its entirety.

vi. Section 307.1, Evaporators and cooling coils, delete "International Mechanical Code" and insert "plumbing subcode (N.J.A.C. 5:23-3.15)."

vii. Section 307.2, Fuel-burning appliances, shall be amended to insert "drywell, sump pump, floor drain, or drainage system below floor" after "fixture."

viii. Section 307.3, Drain pipe materials and sizes, shall be deleted.

4. Chapter 4 of the fuel gas subcode, entitled "Gas Piping Installation," shall be amended as follows:

i. Section 401.2, Liquefied petroleum gas storage, shall be amended to add the following: Notwithstanding the provisions contained in NFPA 58, the installation of LP-Gas containers on roofs of buildings shall be strictly prohibited.

ii. Add new Section 401.11 as follows:

"401.11 Protection from vehicle impact. Gas meters, related regulators and piping that are installed indoors or outdoors and are subject to vehicle impact shall be protected by barriers meeting the requirements of Section 312 of the International Fire Code. For the purpose of applying this provision, "subject to vehicle impact" shall mean located within three feet of any garage door opening, driveway or designated parking area and not separated by a building wall from the space where a vehicle may be operated.

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

iii. In Section 402.6.1, Liquefied petroleum gas systems, insert the following at the beginning of the section: "The operating pressure for undiluted LP-gas systems shall not exceed 20 psig (140 kPa gauge)."

iv. Section 403.3, Other materials, is deleted.

5. Chapter 5 of the fuel gas code, entitled "Chimneys and vents," shall be amended as follows: