

Note: This courtesy summary of the New Hampshire Building Code is provided for the convenience of the user by the Building Code Review Board, and consists of amendments which have been ratified by the General Court through the date indicated above. It is correct to the best of the board's knowledge, however, for the legal record of these amendments, refer to the specific exhibits and the appropriate ratification legislation.

## **International Building Code® 2015 amendments**

*IBC adopted HB562-2019 – effective September 15, 2019*

### **1) Amend Section 101.1 as follows (BD-15-02-15):**

*Ratified SB15-2021; effective July 23, 2021*

**101.1 Title.** These regulations shall be known as the *Building Code* of the State of New Hampshire hereinafter referred to as "this code."

### **2) Amend Section 101.4 as follows (BD-15-03-15):**

*Ratified SB15-2021; effective July 23, 2021*

**101.4 Referenced codes.** The other codes listed in §101.4.1 through §101.4.7 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference.

**101.4.1 Gas.** Fuel gas systems shall comply with the New Hampshire Fire Code, Saf-C 6000.

**101.4.2 Mechanical.** The provisions of the *International Mechanical Code* shall apply to the installation, alterations, repairs, and replacement of mechanical systems, including equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air conditioning and refrigeration systems, incinerators, and other energy-related systems.

**101.4.3 Plumbing.** The provisions of the *International Plumbing Code* shall apply to the installation, alteration, repair and replacement of plumbing systems, including equipment, appliances, fixtures, fittings and appurtenances, and where connected to a water or sewage system and all aspects of a medical gas system. Private sewage disposal systems shall comply with RSA 485-A:29-44.

**101.4.4 Property maintenance.** [RESERVED]

**101.4.5 Fire prevention.** The provisions of the New Hampshire Fire Code Saf-C 6000 shall apply to matters affecting or relating to structures, processes and premises from the hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; from conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

**101.4.6 Energy.** The provisions of the *International Energy Conservation Code* shall apply to all matters governing the design and construction of buildings for energy efficiency.

**101.4.7 Existing buildings.** The provisions of the *International Existing Building Code* shall apply to matters governing the *repair, alteration, change of occupancy, addition to and relocation* of existing buildings.

**3) Amend Section 102.6 as follows (BD-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**102.6 Existing structures.** The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise specifically provided in this code, the *International Existing Building Code*, or the *New Hampshire Fire Code Saf-C 6000*.

**102.6.1 Buildings not previously occupied.** A building or portion of a building that has not been previously occupied or used for its intended purpose in accordance with the laws in existence at the time of its completion shall comply with the provisions of the *International Building Code* or *International Residential Code*, as applicable, for new construction or with any current permit for such occupancy.

**102.6.2 Buildings previously occupied.** The legal occupancy of any building existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise specifically provided in this code, the *New Hampshire Fire Code Saf-C 6000*, or as is deemed necessary by the *building official* for the general safety and welfare of the occupants and the public.

**4) Amend Section 202 as follows (BD-15-11-18):***Ratified SB15-2021; effective July 23, 2021*

**CHANGE OF OCCUPANCY.** A change in the use of a building or a portion of a building which results in one of the following:

1. A change of occupancy classification.
2. A change from one group to another group within an occupancy classification.
3. Any change in use within a group for which there is a change in application of the requirements of this code.

**5) Add new Section 1011.12.3 as follows (BD-15-16-19):***Ratified SB15-2021; effective July 23, 2021*

**1011.12.3 Equipment and appliances on roofs or elevated structures.** Where *equipment* requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access such equipment or appliances, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.

**Exception:** This section shall not apply to Group R-3 occupancies.

**6) Amend Section 1105.1 as follows (BD-15-05-15 & BD-15-12-18):***Ratified SB15-2021; effective July 23, 2021*

**1105.1 Public entrances.** In addition to *accessible* entrances required by Sections 1105.1.1 through 1105.1.79, at least 60 percent of all *public entrances* shall be *accessible*.

[Exceptions and Sections 1105.1.1 through 1105.1.7 are unchanged]

**1105.1.8** At least one of the required *accessible public entrances* in Groups A, E, I-1, I-2, I-3, R-1 and R-2 shall be equipped with either full power-operated or low-energy power-operated automatic doors in compliance with ICC A117.1.

**1105.1.9** At least one of the required *accessible public entrances* in Groups B and M greater than or equal to 1,000 net square feet (93 m<sup>2</sup>) in size, and the nonresidential portion of live/work units per Section 419 greater than or equal to 1,000 net square feet (93 m<sup>2</sup>) shall be equipped with either full power-operated or low-energy power-operated automatic doors in compliance with ICC A117.1.

**1105.1.9.1** Required *accessible public entrances* in Groups B and M less than or equal to 1,000 net square feet (93 m<sup>2</sup>) in size and the nonresidential portion of live/work units per Section 419 less than 1,000 square feet (93 m<sup>2</sup>), where automatic doors are not provided, an electric signaling device to alert the owner of a presence at the door shall be provided.

**7) Add new Section 1109.2.1.2.1 as follows (BD-15-17-19):***Ratified SB15-2021; effective July 23, 2021*

**1109.2.1.2.1 Changing station.** In assembly occupancies with an occupant load of 1,500 or greater and in mercantile occupancies of 40,000 aggregate square feet (3716 m<sup>2</sup>) or greater, a permanently mounted, powered, height adjustable adult changing station that complies with Section 603.5 of ICC A117.1 shall be provided in the family or assisted-use toilet room. Each room shall have signage meeting the requirements of ICC A117.1 indicating the presence of the changing station. Central directories, if provided, shall indicate the location(s) of the changing stations.

**8) Add new Section 1109.2.4 as follows (BD-15-14-19):***Ratified SB15-2021; effective July 23, 2021*

**1109.2.4 Diaper changing tables.** In Groups A, B, E, I-4 child day care, M and R-1 hotels and motels, on each floor level containing a public toilet room, both male and female occupants shall have access to at least one diaper changing table complying with ICC A117.1. Each room shall have signage indicating the presence of the diaper changing table. Toilet rooms not providing a diaper changing table shall have signage providing directions to the nearest diaper changing table location. Central directories, if provided, shall indicate the location(s) of the diaper changing tables. Signs shall meet the requirements of ICC A117.1.

**Exception:** Groups B and M less than 1,000 net square feet (93 m<sup>2</sup>) in size.

**9) Amend Section 1608.2 as follows (BD-15-06-15):**

*Ratified HB562-2019; effective September 15, 2019*

**1608.2 Ground snowloads.** The ground snowloads to be used in determining the design snow loads for roofs shall be determined in accordance with ASCE 7 or Figure 1608.2 for the contiguous United States and Table 1608.2 for Alaska. Site-specific case studies shall be made in areas designated “CS” in Figure 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2 and for all sites within the CS areas shall be *approved*. Ground snow load determination for such sites shall be based on an extreme value statistical analysis of data available in the vicinity of the site using a value with a 2-percent annual probability of being exceeded (50-year mean recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as *approved* by the *building official*.

**1608.2.1.** Ground snowloads are permitted to be determined in accordance with Table 1 of *Ground Snow Loads for New Hampshire* ERDC/CRREL TR-02-6.

**10) Amend Section 2701.1 as follows (BD-15-13-19):**

*Ratified HB562-2019; effective September 15, 2019*

**2701.1 Scope.** This chapter governs the electrical components, equipment and systems used in buildings and structures covered by this code. Electrical components, equipment and systems shall be designed and constructed in accordance with the provisions of NFPA 70 as referenced in RSA 155-A:1,IV.

**11) Amend Section 2902.2 as follows (BD-15-07-15 & BD-15-09-17):**

*BD-15-07-15 (exception 4) ratified HB562-2019; effective September 15, 2019*

*BD-15-09-17 (2902.2) ratified SB15-2021; effective July 23, 2021*

**2902.2 Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex. Single occupancy toilets are permitted to be unisex provided the total number of water closets complies with Table 2902.1.

**Exceptions:**

1. Separate facilities shall not be required for *dwelling units* and *sleeping units*.
2. Separate facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both the employees and customers, of 15 or less.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum *occupant load* is 50 or less.
4. Separate facilities shall not be required in assembly occupancies that serve food with a total *occupant load*, including both employees and customers, of less than 25.

**12) Amend Section 3103.1.2 as follows (BD-15-10-17):**

*Ratified HB562-2019; effective September 15, 2019*

**3103.1.2 Permit required.** Temporary structures that cover an area greater than 120 square feet (11.16 m<sup>2</sup>), including connecting areas or spaces with a common *means of egress* or entrance that are used or intended to be used for the gathering together of 10 or more persons, shall not be erected, operated or maintained for any purpose without obtaining a *permit* from the *building official*.

**3103.1.2.1** Tents that cover an area of 400 square feet (37.2 m<sup>2</sup>) or greater, including connecting areas or spaces with a common *means of egress* or entrance that are used or intended to be occupied by people shall not be erected, operated or maintained for any purpose without obtaining a *permit* from the *building official*.

**13) Adopt Appendix C in its entirety per Section 101.2.1 (BD-15-08-15):**

*Ratified HB562-2019; effective September 15, 2019*

**APPENDIX C  
GROUP U – AGRICULTURAL BUILDINGS**

**End of *International Building Code*® 2015 amendments**

UNOFFICIAL

**International Existing Building Code® 2015 amendments***IEBC adopted HB562-2019 – effective September 15, 2019***1) Amend Section 101.1 as follows (EX-15-02-15):***Ratified SB15-2021; effective July 23, 2021*

**R101.1 Title.** These regulations shall be known as the *Existing Building Code* of the State of New Hampshire hereinafter referred to as "this code."

**2) Amend Section 101.3 as follows (EX-15-03-15):***Ratified SB15-2021; effective July 23, 2021*

**101.3 Intent.** The intent of this code is to provide flexibility to permit the use of alternative approaches to achieve compliance with minimum requirements to safeguard the public health, safety and welfare insofar as they are affected by the *repair, alteration, change of occupancy, addition* and relocation of *existing buildings*.

**101.3.1.** *Repairs, alterations, additions* and relocations to any building that falls under the jurisdiction of the *International Residential Code* complying with the provisions of the IRC Appendix J, shall be considered in compliance with this code.

**3) Amend Section 102.4 as follows (EX-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**102.4 Referenced codes and standards.** The codes and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference. All references in this code to the *International Fuel Gas Code, International Property Maintenance Code* and *International Fire Code*, are superseded by BCR 300, amendments to the *International Building Code*, 101.4 Referenced Codes. Where differences occur between provisions of this code and referenced codes and standards, the provisions of this code shall govern.

**Exception:** Where enforcement of a code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing shall govern.

**4) Amend Section 202 adding the definitions as follows (EX-15-08-18):***Ratified SB15-2021; effective July 23, 2021*

**AGGREGATE AREA:** The sum total of the *building area* of all *stories* of a building, including *basements*.

**AREA, BUILDING.** The area included within surrounding *exterior walls* (or *exterior walls* and *fire walls*) exclusive of vent *shafts* and *courts*. Areas of the building not provided with surrounding walls shall be included in the building area if such areas are included within the horizontal projection of the roof or floor above.

**BASEMENT.** A *story* that is not a *story above grade plane*.

**STORY.** That portion of a building included between the upper surface of a floor and the upper surface of the floor or roof next above.

**5) Amend Section 202 as follows (EX-15-07-18):***Ratified SB15-2021; effective July 23, 2021*

**CHANGE OF OCCUPANCY.** A change in the use of a building or a portion of a building which results in one of the following:

1. A change of occupancy classification.
2. A change from one group to another group within an occupancy classification.
3. Any change in use within a group for which there is a change in application of the requirements of this code.

**6) Add new Section 906.3 as follows (EX-15-09-19):***Ratified SB15-2021; effective July 23, 2021*

**906.3 Diaper changing tables.** In Groups A, B, E, I-4 child day care, M and R-1 hotels and motels, on each floor level containing a public toilet room, both male and female occupants shall have access to at least one diaper changing table complying with ICC A117.1. Each room shall have signage indicating the presence of the diaper changing table. Toilet rooms not providing a diaper changing table shall have signage providing directions to the nearest diaper changing table location. Central directories, if provided, shall indicate the location(s) of the diaper changing tables. Signs shall meet the requirements of ICC A117.1.

**Exception:** Groups B and M less than 1,000 net square feet (93 m<sup>2</sup>) in size.

**7) Add Section 906.4 as follows (EX-15-11-19):***Ratified SB15-2021; effective July 23, 2021*

**906.4 Changing station.** In assembly occupancies with an occupant load of 1,500 or greater and in mercantile occupancies of 40,000 aggregate square feet (3716 m<sup>2</sup>) or greater, a permanently mounted, powered, height adjustable adult changing station that complies with Section 603.5 of ICC A117.1 shall be provided in the altered toilet rooms, providing access to both male and female occupants, or family or assisted-use toilet room. Each room shall have signage meeting the requirements of ICC A117.1 indicating the presence of the changing station. Central directories, if provided, shall indicate the location(s) of the changing stations.

**8) Amend Section 1012.5.1 as follows (EX-15-05-15):***Ratified SB15-2021; effective July 23, 2021*

**1012.5.1 Height and area for change to higher hazard category.** When a change of occupancy classification is made to a higher hazard category as shown in Table 912.5, heights and areas of buildings and structures shall comply with the requirements of Chapter 5 of the *International Building Code* for the new occupancy classification.

**Exception:** In other than Groups H, F-1 and S-1, in lieu of fire walls, use of fire barriers having a fire-resistance rating of not less than that specified in Table 706.4 of the *International Building Code*, constructed in accordance with Section 707 of the *International Building Code*, shall be permitted to meet area limitations required for the new occupancy in buildings protected throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the *International Building Code*.

**1012.5.1.1 Fire wall alternative.** In other than Groups H, F-1 and S-1, fire barriers and horizontal assemblies constructed in accordance with Sections 707 and 711, respectively, of the *International Building Code* shall be permitted to be used in lieu of fire walls to subdivide the building into separate buildings for the purpose of complying with the area limitations required for the new occupancy where all of the following conditions are met:

1. The buildings are protected throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the *International Building Code*.

[Remainder of Section unchanged]

**9) Amend Section 1012.8.1 as follows (EX-15-09-19 & EX-15-11-19):**

*Ratified SB15-2021; effective July 23, 2021*

**1012.8.1 Partial change in occupancy.** Where a portion of the building is changed to a new occupancy classification, any *alteration* shall comply with Sections 705, 806 and 906, as amended and as applicable.

**10) Amend Section 1105.1 as follows (EX-15-09-19 & EX-15-11-19):**

*Ratified SB15-2021; effective July 23, 2021*

**1105.1 Minimum requirements.** Accessibility provisions for new construction shall apply to additions. An addition that affects the accessibility to, or contains an area of, *primary function* shall comply with the requirements of Sections 705, 806 and 906, as amended and as applicable.

**11) Amend Section 1401.2 as follows (EX-15-06-15):**

*Ratified SB15-2021; effective July 23, 2021*

**1401.2 Applicability.** Structures existing prior to September 14, 2003, in which there is work involving *additions, alterations or changes of occupancy* shall be made to conform to the requirements of this chapter or the provisions of Chapters 5 through 13. The provisions of Sections 1401.2.1 through 1401.2.5 shall apply to existing occupancies that will continue to be, or are proposed to be, in Groups A, B, E, F, I-2, M, R and S. These provisions shall not apply to buildings with occupancies in Group H or I-1, I-3 or I-4.

**End of *International Existing Building Code*® 2015 amendments**



## **International Energy Conservation Code® 2015 amendments**

*IECC adopted HB562-2019 – effective September 15, 2019*

### **1) Amend Section C101.1 as follows (EN-15-02-15):**

*Ratified SB15-2021; effective July 23, 2021*

**C101.1 Title.** These regulations shall be known as the *Energy Conservation Code* of the State of New Hampshire hereinafter referred to as "this code."

### **2) Amend Section C101.5 as follows (EN-15-07-17 & EN-15-15-19):**

*EN-15-07-17 (Exception) ratified HB562-2019; effective September 15, 2019*

*EN-15-03-15 (C101.5) ratified SB15-2021; effective July 23, 2021*

**C101.5 Compliance.** *Residential buildings* shall meet the provisions of IECC—Residential Provisions. *Commercial buildings* shall meet the provisions of IECC—Commercial Provisions. Log structures shall meet the provisions of Section 305 of the *ICC-400 2012 Standard on the Design and Construction of Log Structures*.

Exception: Any structure three stories or less above grade plane in height and less than 4,000 square feet (372 m<sup>2</sup>) in gross floor area is permitted to show compliance with the 2015 *International Energy Conservation Code – Residential Provisions* rather than the 2015 *International Energy Conservation Code – Commercial Provisions* which would otherwise be applicable.

### **3) Delete Section C406 (EN-15-03-17):**

*Ratified HB562-2019; effective September 15, 2019*

#### **SECTION C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS**

### **4) Delete Section C408 (EN-15-04-17):**

*Ratified HB562-2019; effective September 15, 2019*

#### **SECTION C408 SYSTEM COMMISSIONING**

### **5) Amend Section R101.1 as follows (EN-15-02-15):**

*Ratified SB15-2021; effective July 23, 2021*

**R101.1 Title.** These regulations shall be known as the *Energy Conservation Code* of the State of New Hampshire hereinafter referred to as "this code."

### **6) Amend Section R101.5 as follows (EN-15-07-17 & EN-15-15-19):**

*EN-15-07-17 (Exception) ratified HB562-2019; effective September 15, 2019*

*EN-15-03-15 (R101.5) ratified SB15-2021; effective July 23, 2021*

**R101.5 Compliance.** *Residential buildings* shall meet the provisions of IECC—Residential Provisions. *Commercial buildings* shall meet the provisions of IECC—Commercial Provisions. Log structures shall meet the provisions of Section 305 of the *ICC-400 2012 Standard on the Design and Construction of Log Structures*.

Exception: Any structure three stories or less above grade plane in height and less than 4,000 square feet (372 m<sup>2</sup>) in gross floor area is permitted to show compliance with the 2015 *International Energy Conservation Code – Residential Provisions* rather than the 2015 *International Energy Conservation Code – Commercial Provisions* which would otherwise be applicable.

## **End of International Energy Conservation Code® 2015 amendments**

**International Mechanical Code® 2015 amendments***IMC adopted HB562-2019 – effective September 15, 2019***1) Amend Section 101.1 as follows (ME-15-02-15):***Ratified SB15-2021; effective July 23, 2021*

**101.1 Title.** These regulations shall be known as the *Mechanical Code* of the State of New Hampshire hereinafter referred to as "this code."

**2) Amend Section 101.2 as follows (ME-15-03-15):***Ratified SB15-2021; effective July 23, 2021*

**101.2 Scope.** This code shall regulate the design, installation, maintenance, alteration and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings. This code shall also regulate those mechanical systems, system components, equipment and appliances specifically addressed herein. The installation of fuel gas distribution piping and equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be regulated by the New Hampshire Fire Code, Saf-C 6000.

**Exception:** Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not having more than three stories high with separate means of egress and their accessory structures shall comply with the *International Residential Code*.

**3) Amend Section 106.5.2 as follows (ME-15-05-15):***Ratified SB15-2021; effective July 23, 2021*

**106.5.2 Fee schedule.** The fees for mechanical work shall be as determined by the local jurisdiction.

**4) Delete Section 106.5.3 (ME-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**106.5.3 Fee refunds.**

**5) Amend Section 108.4 as follows (ME-15-06-15):***Ratified SB15-2021; effective July 23, 2021*

**108.4 Violation penalties.** Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair mechanical work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**6) Amend Section 108.5 as follows (ME-15-07-15):***Ratified SB15-2021; effective July 23, 2021*

**108.5 Stop work orders.** Upon notice from the code official that mechanical work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work on the system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law.

**7) Amend Section 202 by adding the definition as follows (ME-15-15-18):**

*Ratified HB562-2019; effective September 15, 2019*

**BIOMASS FUEL** For use in this section. biomass fuels are defined as "solid" organic matter. not including woods derived from construction or demolition debris; wood that has been chemically treated; or agricultural crops or aquatic plants or byproducts from such crops or plants which have been used to rehabilitate a contaminated or brownfields site through a process known as "phytoremediation".

**8) Add New Section 301.19 as follows (ME-15-12-17):**

*Ratified HB562-2019; effective September 15, 2019*

**301.19 HVAC Systems Testing & Balancing.** HVAC systems shall be balanced in accordance with generally accepted engineering standards. Air and water flow rates shall be measured and adjusted to deliver final flow rates within the tolerances provided in the product specifications. Test and balance activities shall include air system and hydronic system balancing.

**301.19.1 Air systems balancing.** Each supply air outlet and *zone* terminal device shall be equipped with means for air balancing in accordance with the requirements of Chapter 6 of the *International Mechanical Code*. Discharge dampers used for air-system balancing are prohibited on constant- volume fans and variable-volume fans with motors 10hp (18.6kW) and larger. Air systems shall be balanced in a manner to first minimize throttling losses then, for fans with system power of greater than 1hp (0.746 kW), fan speed shall be adjusted to meet design flow conditions.

**Exception:** Fans with fan motors of 1hp (0.746 kW) or less are not required to be provided with a means for air balancing.

**301.19.2 Hydronic systems balancing.** Individual hydronic heating and cooling coils shall be equipped with means for balancing and measuring flow. Hydronic systems shall be proportionately balanced in a manner to first minimize throttling losses, then the pump impeller shall be trimmed, or pump speed shall be adjusted to meet design flow conditions. Each hydronic system shall have either the capability to measure pressure across pump, or test ports at each side of each pump.

**Exceptions:** The following equipment is not required to be equipped with a means for balancing or measuring flow:

1. Pumps with pump motors 5 hp (3.7 kW) or less.
2. Where throttling results in no greater than 5 percent of the nameplate horsepower draw above that required if the impeller were trimmed.

**301.19.3 System balancing report.** A written report describing the activities and measurement completed in accordance with generally accepted engineering standards and Testing & Balancing industry standards.

**9) Amend Section 606.2 as follows (ME-15-17-18):***Ratified HB562-2019; effective September 15, 2019*

**606.2 Where required.** Smoke detectors shall be installed where indicated in Sections 606.2.1 through 606.2.34.

**Exception:** Smoke detectors shall not be required where air distribution systems are incapable of spreading smoke beyond the enclosing walls, floors and ceilings of the room or space in which the smoke is generated.

**606.2.1 Location of Smoke detectors.** Smoke detectors shall be installed downstream of the air filters and ahead of any branch connections in air supply systems with a design capacity greater than 2,000 cfm (0.9 m<sup>3</sup>/s).

**606.2.12 Return air systems.** Smoke detectors shall be installed in return air systems with a design capacity greater than 2,000 cfm (0.9 m<sup>3</sup>/s), in the return air duct or *plenum* upstream of any filters, *exhaust air* connections, outdoor air connections, or decontamination *equipment* and appliances.

**Exception:** Smoke detectors are not required in the return air system where all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the *International Fire Code*. The area smoke detection system shall comply with Section 606.4.

**606.2.23 Common supply and return air systems.** Where multiple air-handling systems share common supply or return air ducts or plenums with a combined design capacity greater than 2,000 cfm (0.9 m<sup>3</sup>/s), the return air system shall be provided with smoke detectors in accordance with Section 606.2.1.

**Exception:** Individual smoke detectors shall not be required for each fan-powered terminal unit, provided that such units do not have an individual design capacity greater than 2,000 cfm (0.9 m<sup>3</sup>/s) and will be shut down by activation of one of the following:

1. Smoke detectors required by Sections 606.2.1 and 606.2.3.
2. An *approved* area smoke detector system located in the return air *plenum* serving such units.
3. An area smoke detector system as prescribed in the exception to Section 606.2.1.

In all cases, the smoke detectors shall comply with Sections 606.4 and 606.4.1.

**606.2.34 Return air risers.** Where return air risers serve two or more stories and serve any portion of a return air system having a design capacity greater than 15,000 cfm (7.1 m<sup>3</sup>/s), smoke detectors shall be installed at each story. Such smoke detectors shall be located upstream of the connection between the return air riser and any air ducts or plenums.

**10) Add New Section 929.1 as follows (ME-15-13-18):***Ratified HB562-2019; effective September 15, 2019*

**929.1 Solid Fuel-Burning Boilers.** Solid Fuel-Burning Boilers listed and conforming to European Committee for Standardization 2012 EN 303-5, "Heating Boilers – Part 5: Heating Boilers for Solid-Fuels, Manually and Automatically Stoked, Nominal Heat Output of Up to 300 Kw – Terminology, Requirements, Testing and Marking" shall be permitted for biomass fuels when all data plates; warning labels; limits on temperature and pressure of relief valves; installation, operations, and maintenance manuals; all operating and safety gauges and controls; and construction and emissions specification documents are provided in English using U.S. customary system units of measurement. All pipe connections shall meet the North American ASTM standards for pipe and fittings.

**11) Add New Section 1004.1.1 as follows (ME-15-14-18):**

*Ratified HB562-2019; effective September 15, 2019*

**1004.1.1 Solid Fuel-Burning Boilers.** Solid fuel-burning boilers listed and conforming to European committee for standardization 2012 EN 303-5 “Heating Boilers – Part 5: Heating Boilers for Solid-Fuels, Manually and Automatically Stoked, Nominal Heat Output of Up to 300 Kw – Terminology, Requirements, Testing and Marking” shall be permitted for biomass fuels when all data plates; warning labels; limits on temperature and pressure of relief valves; installation, operations, and maintenance manuals; all operating and safety gauges and controls; and construction and emissions specification documents are provided in English using U.S. customary system units of measurement. All pipe connections shall meet the North American ASTM standards for pipe and fittings.

**12) Amend Chapter 15 as follows (ME-15-16-18):**

*Ratified HB562-2019; effective September 15, 2019*

**CEN** European Committee for Standardization

**CEN-CENELEC Management Centre**

Avenue Marnix 17

B-100 Brussels

Tel: +32 2 550 08 11

Fac: +32 2 550 08 19

**EN** European Standard

303-5 Heating Boilers - Part 5: Heating Boilers for Solid-Fuels. Manually and Automatically Stoked. Nominal Heat Output of Up to 500 Kw -Terminology. Requirements, Testing and Marking (2012)

**End of *International Mechanical Code*® 2015 amendments**

**International Plumbing Code® 2015 amendments***IPC adopted HB562-2019 – effective September 15, 2019***1) Amend Section 101.1 as follows (PL-15-02-15):***Ratified SB15-2021; effective July 23, 2021*

**101.1 Title.** These regulations shall be known as the *Plumbing Code* of the State of New Hampshire hereinafter referred to as "this code."

**2) Amend Section 101.2 as follows (PL-15-03-15):***Ratified SB15-2021; effective July 23, 2021*

**101.2 Scope.** The provisions of this code shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction. This code shall also regulate nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems. The installation of fuel gas distribution piping and equipment, fuel gas-fired water heaters, and water heater venting systems shall be regulated by the New Hampshire Fire Code, Saf-C 6000. Provisions in the appendices shall not apply unless specifically adopted.

**Exception:** Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not having more than three stories high with separate means of egress and their accessory structures shall comply with the *International Residential Code*.

**3) Amend Section 106.6.2 as follows (PL-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**106.6.2 Fee schedule.** The fees for all plumbing work shall be as determined by the local jurisdiction.

**4) Delete Section 106.6.3 (PL-15-17-18):***Ratified HB562-2019; effective September 15, 2019*

**106.6.3 Fee refunds.**

**5) Amend Section 108.4 as follows (PL-15-05-15):***Ratified SB15-2021; effective July 23, 2021*

**108.4 Violation penalties.** Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair plumbing work in violation of the approved construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**6) Amend Section 108.5 as follows (PL-15-06-15):***Ratified SB15-2021; effective July 23, 2021*

**108.5 Stop work orders.** Upon notice from the code official that plumbing system is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work on the system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law.

**7) Amend Section 305.4.1 as follows (PL-15-07-15):**

*Ratified SB15-2021; effective July 23, 2021*

**305.4.1 Sewer depth.** *Building sewers* that connect to private sewage disposal systems shall conform to RSA 485-A relative to minimum depth below finished grade. *Building sewers* that connect to public sewers shall be a minimum depth of 48 inches (1219 mm) below grade or adequately insulated to afford the same protection whenever a condition arises that the 48 inches (1219 mm) cannot be attained.

**8) Amend Section 403.2 as follows (PL-15-08-15 & PL-15-16-17):**

*PL-15-08-15 (exception 4) ratified SB15-2021; effective July 23, 2021*

*PL-15-16-17 (403.2) ratified HB562-2019; effective September 15, 2019*

**403.2 Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex. Single occupancy toilets are permitted to be unisex provided the total number of water closets complies with Table 403.1.

**Exceptions:**

1. Separate facilities shall not be required for *dwelling units* and *sleeping units*.
2. Separate facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both the employees and customers, of 15 or less.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum *occupant load* is 50 or less.
4. Separate facilities shall not be required in assembly occupancies that serve food with a total *occupant load*, including both employees and customers, of less than 25.

**9) Amend Section 504.7 as follows (PL-15-15-16):**

*Ratified SB15-2021; effective July 23, 2021*

**504.7 Required pan.** Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a material thickness of not less than 0.0236 inch (0.6010 mm) (No. 24 gage), or other pans *approved* for such use. Other approved pans include a plastic pan beneath a gas or electric water heater tank constructed of a material having a flame spread Index of 25 or less and a smoke spread index of 450 or less when tested in accordance with the ASTM E84 or UL 723 standards.

**10) Amend Section 605.22.3 as follows (PL-15-18-18):**

*Ratified HB562-2019; effective September 15, 2019*

**605.22.3 Solvent cementing.** Joint surfaces shall be clean and free from moisture. A primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564 or CSA B137.3 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D 2855. Solvent cement joints shall be permitted above or below ground.

**11) Amend Section 701.2 as follows (PL-15-10-15):**

*Ratified SB15-2021; effective July 23, 2021*

**701.2 Sewer required.** Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer, where available, or an approved private sewage disposal system in accordance with RSA 485-A:29-44.

**12) Amend Section 705.11.2 as follows (PL-15-11-15):**

*Ratified SB15-2021; effective July 23, 2021*

**705.11.2 Solvent cementing.** Joint surfaces shall be clean and free from moisture. A primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564 or CSA CAN/CSA-B137.3, CSA CAN/CSA-B181.2 or CSA CAN/CSA-B182 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM 2855. Solvent-cement joints shall be permitted above or below ground.

**13) Amend Section 904.1 as follows (PL-15-12-15):**

*Ratified SB15-2021; effective July 23, 2021*

**904.1 Roof extension.** All open pipes that extend through a roof shall be terminated at least 18 inches (457 mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2134 mm) above the roof.

**14) Adopt Appendix B in its entirety per Section 101.2 (PL-15-13-15):**

*Ratified SB15-2021; effective July 23, 2021*

**APPENDIX B  
RATES OF RAINFALL FOR VARIOUS CITIES**

**15) Adopt Appendix C in its entirety per Section 101.2 (PL-15-14-15):**

*Ratified SB15-2021; effective July 23, 2021*

**APPENDIX C  
STRUCTURAL SAFETY**

**End of *International Plumbing Code*® 2015 amendments**



**International Residential Code® 2015 amendments***IRC adopted HB562-2019 – effective September 15, 2019***1) Amend Section R101.1 as follows (RE-15-02-15):***Ratified SB15-2021; effective July 23, 2021*

**R101.1 Title.** These regulations shall be known as the *Residential Code for One- and Two-Family Dwellings* of the State of New Hampshire hereinafter referred to as "this code."

**2) Add Section R101.3.1 as follows (RE-15-16-15):***Ratified SB15-2021; effective July 23, 2021*

**R101.3.1 Toilet Facilities for Workers.** Toilet facilities shall be provided for construction workers and such facilities shall be maintained in a sanitary condition. Construction worker toilet facilities of the non-sewer type shall conform to ANSI Z4.3.

**3) Amend Section R105.2 as follows (RE-15-27-17):***Ratified HB562-2019; effective September 15, 2019*

**R105.2 Work exempt from permit.** Exemption from *permit* requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this *jurisdiction*. *Permits* shall not be required for the following:

**Building:**

1. One-story detached *accessory structures*, provided that the floor area does not exceed 200 square feet (18.58 m<sup>2</sup>).

1.1 Tents under 400 square feet (37.2 m<sup>2</sup>).

[Remainder of section unchanged]

**4) Amend Section R102.7 as follows (RE-15-03-15):***Ratified SB15-2021; effective July 23, 2021*

**R102.7 Existing structures.** The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

**5) Amend Section R202 adding the definition as follows (RE-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**BIOMASS FUEL.** For use in this section, biomass fuels are defined as "solid" organic matter, not including woods derived from construction or demolition debris; wood that has been chemically treated; or agricultural crops or aquatic plants or byproducts from such crops or plants which have been used to rehabilitate a contaminated or brownfields site through a process known as "phytoremediation".

**6) Amend Section R202 adding the definition as follows (RE-15-44-18):***Ratified SB15-2021; effective July 23, 2021*

**BIOMASS.** As defined in New Hampshire Administrative Rules Env-A 1401.03(d).

**7) Amend TABLE R301.2(1) as follows (RE-15-05-15):**

*Ratified SB15-2021; effective July 23, 2021*

Add footnote “n” to the Ground Snow Load column of Table R301.2(1).

TABLE R301.2(1)  
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY <sup>f</sup>	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP <sup>g</sup>	ICE BARRIER UNDERLAYMENT REQUIRED <sup>h</sup>	FLOOD HAZARDS <sup>g</sup>	AIR FREEZING INDEX <sup>i</sup>	MEAN ANNUAL TEMP <sup>j</sup>
	Speed <sup>d</sup> (mph)	Topographic effects <sup>k</sup>		Weathering <sup>a</sup>	Frost line depth <sup>b</sup>	Termite <sup>c</sup>					

n. The jurisdiction shall fill in this part of the table with the ground snow load from Figure R301.2(5) or from Table 1 of *Ground Snow Loads for New Hampshire* ERDC/CRREL TR-02-6.

**8) Amend Section R302.13 as follows (RE-15-45-19):**

*Ratified HB562-2019; effective September 15, 2019*

**R302.13 Fire protection of floors.** Floor assemblies that are not required elsewhere in this code to be fire-resistance rated, shall be provided with a 1/2-inch (12.7 mm) gypsum wallboard membrane, 5/8-inch (16 mm) wood structural panel membrane, or equivalent on the underside of the floor framing member. Penetrations or openings for ducts, vents, electrical outlets, lighting, devices, luminaires, wires, speakers, drainage, piping and similar openings or penetrations shall be permitted.

**Exceptions:**

1. Floor assemblies located directly over a space protected by an automatic sprinkler system in accordance with Section P2904, NFPA 13D, or other approved equivalent sprinkler system.
2. Floor assemblies located directly over a crawl space not intended for storage or fuel-fired appliances.
3. Portions of floor assemblies shall be permitted to be unprotected where complying with the following:
  - 3.1. The aggregate area of the unprotected portions does not exceed 80 square feet (7.4 m<sup>2</sup>) per story
  - 3.2. Fireblocking in accordance with Section R302.11.1 is installed along the perimeter of the unprotected portion to separate the unprotected portion from the remainder of the floor assembly.
4. Wood floor assemblies using dimension lumber or structural composite lumber equal to or greater than 2-inch by 10-inch (50.8 mm by 254 mm) nominal dimension, or other approved floor assemblies demonstrating equivalent fire performance.
5. Floor assemblies having been protected by an alternative method that has been evaluated as meeting the criteria for alternative methods of construction as outlined in R104.11.
6. The provisions of R302.13 shall not become effective until eighteen months after the effective date of the adoption of the International Residential Code 2015 edition.

**Effective March 15, 2021**

**9) Amend Section R310.1 as follows (RE-15-06-15):**

*Ratified SB15-2021; effective July 23, 2021*

**R310.1 Emergency escape and rescue opening required.** *Basements, habitable attics* and every sleeping room shall have not less than one operable emergency escape and rescue opening. Where *basements* contain one or more sleeping rooms, an emergency escape and rescue opening shall be required in each sleeping room. Emergency escape and rescue openings shall open directly into a public way, or to a *yard* or court that opens to a public way.

**Exceptions:**

1. Storm shelters and *basements* used only to house mechanical *equipment* not exceeding a total floor area of 200 square feet (18.58 m<sup>2</sup>).
2. Emergency escape and rescue openings required by Section 310.1 are permitted to be omitted where the building is protected by a sprinkler system complying with Section R313.

**10) Amend Section R313.2 as follows (RE-15-07-15):**

*Ratified SB15-2021; effective July 23, 2021*

**R313.2 One- and two-family dwellings automatic fire systems.** Automatic residential fire sprinkler system shall not be required in one- and two-family *dwellings*.

**R313.2.1 Design and installation.** Automatic residential fire sprinkler systems shall be designed and installed in accordance with Section P2904 or NFPA 13D.

**R313.2.2 One- and Two-Family dwellings automatic fire systems.** Buildings provided with an automatic residential fire sprinkler system shall be allowed to exercise all credits regarding egress in accordance with RSA 155-A:2 II.

**11) Amend Section N1101.2 as follows (RE-15-08-15):**

*Ratified SB15-2021; effective July 23, 2021*

**N1102.1 (R402.1) General (Prescriptive).** The *building thermal envelope* shall meet the requirements of Sections N1102.1.1 through N1102.1.4 or the requirements of Section 305 of the ICC-400 2012 Standard on the Design and Construction of Log Structures.

**12) Amend Section N1101.5 as follows (RE-15-37-18 & RE-15-38-18):**

*RE-15-37-18 (#3-8) ratified HB562-2019; effective September 15, 2019*  
*RE-15-38-18 (N1101.5.1) ratified HB562-2019; effective September 15, 2019*

**N1101.5 (R103.2) Information on construction documents.** Construction documents shall be drawn to scale upon suitable material. Electronic media documents are permitted to be submitted when *approved* by the *building official*. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. Details shall include, but are not limited to, as applicable:

1. Insulation materials and their *R*-values.
2. Fenestration *U*-factors and SHGCs.

Expires March 15, 2022

**13) Amend Section N1102.1 as follows (RE-15-39-18):**

*Ratified HB562-2019; effective September 15, 2019*

**N1102.1 (R402.1) General (Prescriptive).** The *building thermal envelope* shall meet the requirements of Sections N1102.1.1 through N1102.1.4.

**Exception:** The following low energy buildings, or portions thereof, separated from the remainder of the building by *building thermal envelope* assemblies complying with this section shall be exempt from the *building thermal envelope* provisions of Section N1102.

1. Those with a peak design rate of energy usage less than 3.4 Btu/h - ft<sup>2</sup> (10.7 W/m<sup>2</sup>) or 1.0 watt/ft<sup>2</sup> of floor area for space conditioning purposes.
2. Those that do not contain *conditioned space*.
3. Including garages, storage rooms and utility rooms that are not part of the thermal envelope.

Expires March 15, 2022

**14) Amend Table N1102.1.2 as follows (RE-15-33-18):**

*Ratified HB562-2019; effective September 15, 2019*

Revise Climate Zone 6, Wood Frame Wall R-value from 20 or 13+5<sup>h</sup>.

TABLE N1102.1.2 (R402.1.2)  
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT\*

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>a</sup>	SKYLIGHT <sup>a</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>a,*</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT <sup>a</sup> WALL R-VALUE	SLAB <sup>a</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>a</sup> WALL R-VALUE
1	NR	0.75	0.25	30	13	3/4	13	0	0	0
2	0.40	0.65	0.25	38	13	4/6	13	0	0	0
3	0.35	0.55	0.25	38	20 or 13 + 5 <sup>b</sup>	8/13	19	5/13 <sup>f</sup>	0	5/13
4 except Marine	0.35	0.55	0.40	49	20 or 13 + 5 <sup>b</sup>	8/13	19	10/13	10, 2 ft	10/13
5 and Marine 4	0.32	0.55	NR	49	20 or 13 + 5 <sup>b</sup>	13/17	30 <sup>e</sup>	15/19	10, 2 ft	15/19
6	0.32	0.55	NR	49	20 + 5 or 13 + 10 <sup>b</sup>	15/20	30 <sup>e</sup>	15/19	10, 4 ft	15/19
7 and 8	0.32	0.55	NR	49	20 + 5 or 13 + 10 <sup>b</sup>	19/21	38 <sup>e</sup>	15/19	10, 4 ft	15/19

Expires March 15, 2022

**15) Amend Section N1102.4.1.2 as follows (RE-15-40-18):**

*Ratified HB562-2019; effective September 15, 2019*

**N1102.4.1.2 (R402.4.1.2) Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding five air changes per hour in Climate Zones 1 and 2, and seven air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2 inches w.g. (50 Pascals). Where required by the *code official*, testing shall be conducted by an *approved* third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

Expires March 15, 2022

**16) Amend Section N1103.3.4 as follows (RE-15-41-18):***Ratified HB562-2019; effective September 15, 2019*

**N1103.3.4 (R403.3.4) Duct leakage (Prescriptive).** The total leakage of the ducts, where measured in accordance with Section R403.3.3, shall be as follows:

1. Rough-in test: The total leakage shall be less than or equal to 6 cubic feet per minute (170 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area where the air handler is installed at the time of the test. Where the air handler is not installed at the time of the test, the total leakage shall be less than or equal to 4 cubic feet per minute (113.3 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area.
2. Postconstruction test: Total leakage shall be less than or equal to 8 cubic feet per minute (226.6 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area.

**17) Delete Section N1103.6 (RE-15-42-18):***Ratified HB562-2019; effective September 15, 2019*

**N1103.6 (R403.6) Mechanical ventilation (Mandatory).**

**Expires March 15, 2022**

**17) Amend Section M2001.1.1 as follows (RE-15-31-18):***Ratified HB562-2019; effective September 15, 2019*

**M2001.1.1 Standards.** Oil-fired boilers and their control systems shall be *listed* and *labeled* in accordance with UL 726. Electric boilers and their control systems shall be *listed* in accordance with UL 834. Boilers shall be designed and constructed in accordance with the requirements of ASME CSD-1 and as applicable, the ASME Boiler and Pressure Vessel Code, Sections I and IV. Gas-fired boilers shall conform to the requirements listed in Chapter 24. Solid Fuel-Burning Boilers listed and conforming to European Committee for Standardization 2012 EN 303-5 “Heating Boilers – Part 5: Heating Boilers for Solid-Fuels, Manually and Automatically Stoked, Nominal Heat Output of Up to 300 Kw – Terminology, Requirements, Testing and Marking” shall be permitted for biomass fuels when all data plates; warning labels; limits on temperature and pressure of relief valves; installation, operations, and maintenance manuals; all operating and safety gauges and controls; and construction and emissions specification documents are provided in English using U.S. customary system units of measurement. All pipe connections shall meet the North American ASTM standards for pipe and fittings.

**18) Delete Chapter 24 in its entirety and add the following (RE-15-10-15):***Ratified SB15-2021; effective July 23, 2021*

**CHAPTER 24  
FUEL GAS**

**G2401.1.** Fuel gas systems shall comply with the New Hampshire Fire Code, Saf-C 6000.

**19) Amend Section P2603.5.1 as follows (RE-15-11-15):***Ratified SB15-2021; effective July 23, 2021*

**P2603.5.1 Sewer depth.** Building sewers that connect to private sewage disposal systems shall conform to RSA 485-A relative to minimum depth below finished grade. Building sewers that connect to public sewers shall be a minimum depth of 48 inches (1219 mm) below grade or adequately insulated to afford the same protection whenever a condition arises that the 48 inches (1219 mm) cannot be attained.

**20) Amend Section P2801.5 as follows (RE-15-26-16):**

*Ratified SB15-2021; effective July 23, 2021*

**P2801.5 Required pan.** Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a material thickness of not less than 0.0236 inch (0.6010 mm) (No. 24 gage), or other pans *approved* for such use. Other approved pans include a plastic pan beneath a gas or electric water heater tank constructed of a material having a flame spread Index of 25 or less and a smoke spread index of 450 or less when tested in accordance with the ASTM E84 or UL 723 standards.

**21) Amend Section P2903.10 as follows (RE-15-13-15):**

*Ratified SB15-2021; effective July 23, 2021*

**P2903.10 Hose bibb.** Hose bibbs subject to freezing, including the “frost-proof” type, shall be equipped with an accessible stop-and-waste-type valve inside the building so that they can be controlled and/or drained during cold periods.

**22) Amend Section P2906.9.1.4 as follows (RE-15-32-18):**

*Ratified HB562-2019; effective September 15, 2019*

**P2906.9.1.4 PVC plastic pipe.** A primer that conforms to ASTM F 656 shall be applied to PVC solvent-cemented joints. Solvent cement for PVC plastic pipe conforming to ASTM D 2564 shall be applied to all joint surfaces.

**23) Amend Section P3003.9.2 as follows (RE-15-14-15):**

*Ratified SB15-2021; effective July 23, 2021*

**P3003.9.2 Solvent cementing.** Joint surfaces shall be clean and free from moisture. A primer that conforms to ASTM F 656 shall be applied. Solvent cement not purple in color and conforming to ASTM D 2564 or CSA B137.3, CSA B181.2 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM 2855. Solvent-cement joints shall be permitted above or below ground.

**24) Amend Section P3103.1 as follows (RE-15-15-15):**

*Ratified SB15-2021; effective July 23, 2021*

**P3103.1 Roof extension.** Open vent pipes that extend through a roof shall be terminated at least 18 inches (457 mm) above the roof or 6 inches (152 mm) above the anticipated snow accumulation, whichever is greater, except that where a roof is to be used for any purpose other than weather protection the vent extension shall be run at least 7 feet (2134 mm) above the roof.

**25) Delete Chapters 34 – 43 in their entirety and add the following (RE-15-30-18):**

*Ratified HB562-2019; effective September 15, 2019*

Refer to the *National Electrical Code* as referenced in RSA 155-A:1, IV.

**13) Amend Chapter 44 as follows (RE-15-34-18):***Ratified HB562-2019; effective September 15, 2019*

CEN European Committee for Standardization

**CEN-CENELEC Management Centre**

Avenue Marnix 17

B-100 Brussels

Tel: +32 2 550 08 11

Fac: +32 2 550 08 19

EN European Standard

303-5 Heating Boilers - Part 5: Heating Boilers for Solid-Fuels. Manually and Automatically Stoked. Nominal Heat Output of Up to 500 Kw -Terminology. Requirements, Testing and Marking (2012)

**26) Adopt Appendix J in its entirety per Section R102.5 and add the following (RE-15-12-15):***Ratified SB15-2021; effective July 23, 2021***APPENDIX J  
EXISTING BUILDINGS AND STRUCTURES**

Existing buildings and structures covered by the International Residential Code shall be governed by Appendix J, not the International Existing Building Code.

Exception: The building owner may choose to apply the International Existing Building Code for a project.

**27) Add and Adopt Appendix Q as follows (RE-15-46-20):***Ratified SB15-2021; effective July 23, 2021***APPENDIX Q  
Reserved TINY HOUSES***(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)***SECTION AQ101  
GENERAL****AQ101.1 Scope.**This appendix shall be applicable to *tiny houses* used as single *dwelling units*. *Tiny houses* shall comply with this code except as otherwise stated in this appendix.**SECTION AQ102  
DEFINITIONS****AQ102.1 General.**

The following words and terms shall, for the purposes of this appendix, have the meanings shown herein. Refer to Chapter 2 of this code for general definitions.

**EGRESS ROOF ACCESS WINDOW.** A skylight or roof window designed and installed to satisfy the emergency escape and rescue opening requirements of Section R310.2.**LANDING PLATFORM.** A landing provided as the top step of a stairway accessing a loft.**LOFT.** A floor level located more than 30 inches (762 mm) above the main floor, open to the main floor on one or more sides with a ceiling height of less than 6 feet 8 inches (2032 mm) and used as a living or sleeping space.**TINY HOUSE.** A dwelling that is 400 square feet (37 m<sup>2</sup>) or less in floor area excluding lofts.

## SECTION AQ103 CEILING HEIGHT

### AQ103.1 Minimum ceiling height.

*Habitable space* and hallways in *tiny houses* shall have a ceiling height of not less than 6 feet 8 inches (2032 mm). Bathrooms, toilet rooms and kitchens shall have a ceiling height of not less than 6 feet 4 inches (1930 mm). Obstructions including, but not limited to, beams, girders, ducts and lighting, shall not extend below these minimum ceiling heights.

**Exception:** Ceiling heights in *lofts* are permitted to be less than 6 feet 8 inches (2032 mm).

## SECTION AQ104 LOFTS

### AQ104.1 Minimum loft area and dimensions.

*Lofts* used as a sleeping or living space shall meet the minimum area and dimension requirements of Sections AQ104.1.1 through AQ104.1.3.

#### AQ104.1.1 Minimum area.

*Lofts* shall have a floor area of not less than 35 square feet (3.25 m<sup>2</sup>).

#### AQ104.1.2 Minimum dimensions.

*Lofts* shall be not less than 5 feet (1524 mm) in any horizontal dimension.

#### AQ104.1.3 Height effect on loft area.

Portions of a *loft* with a sloped ceiling measuring less than 3 feet (914 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the loft.

**Exception:** Under gable roofs with a minimum slope of 6 units vertical in 12 units horizontal (50-percent slope), portions of a *loft* with a sloped ceiling measuring less than 16 inches (406 mm) from the finished floor to the finished ceiling shall not be considered as contributing to the minimum required area for the *loft*.

### AQ104.2 Loft access.

The access to and primary egress from *lofts* shall be of any type described in Sections AQ104.2.1 through AQ104.2.4.

#### AQ104.2.1 Stairways.

Stairways accessing *lofts* shall comply with this code or with Sections AQ104.2.1.1 through AQ104.2.1.5.

##### AQ104.2.1.1 Width.

Stairways accessing a *loft* shall not be less than 17 inches (432 mm) in clear width at or above the handrail. The width below the handrail shall be not less than 20 inches (508 mm).

##### AQ104.2.1.2 Headroom.

The headroom in stairways accessing a *loft* shall be not less than 6 feet 2 inches (1880 mm), as measured vertically, from a sloped line connecting the tread or landing platform nosings in the middle of their width.

##### AQ104.2.1.3 Treads and risers.

Risers for stairs accessing a *loft* shall be not less than 7 inches (178 mm) and not more than 12 inches (305 mm) in height. Tread depth and riser height shall be calculated in accordance with one of the following formulas:

The tread depth shall be 20 inches (508 mm) minus four-thirds of the riser height. 2. The riser height shall be 15 inches (381 mm) minus three-fourths of the tread depth.

##### AQ104.2.1.4 Landing platforms.

The top tread and riser of stairways accessing *lofts* shall be constructed as a *landing platform* where the *loft* ceiling height is less than 6 feet 2 inches (1880 mm) where the stairway meets the *loft*. The *landing platform* shall be 18 inches to 22 inches (457 to 559 mm) in depth measured



from the nosing of the landing platform to the edge of the *loft*, and 16 to 18 inches (406 to 457 mm) in height measured from the *landing platform* to the *loft* floor.

**AQ104.2.1.5 Handrails.**

Handrails shall comply with Section R311.7.8.

**AQ104.2.1.6 Stairway guards.**

Guards at open sides of stairways shall comply with Section R312.1.

**AQ104.2.2 Ladders.**

Ladders accessing *lofts* shall comply with Sections AQ104.2.1 and AQ104.2.2.

**AQ104.2.2.1 Size and capacity.**

Ladders accessing *lofts* shall have a rung width of not less than 12 inches (305 mm), and 10-inch (254 mm) to 14-inch (356 mm) spacing between rungs. Ladders shall be capable of supporting a 200-pound (75 kg) load on any rung. Rung spacing shall be uniform within 3/8 inch (9.5 mm).

**AQ104.2.2.2 Incline.**

Ladders shall be installed at 70 to 80 degrees from horizontal.

**AQ104.2.3 Alternating tread devices.**

Alternating tread devices accessing *lofts* shall comply with Sections R311.7.11.1 and R311.7.11.2. The clear width at and below the handrails shall be not less than 20 inches (508 mm).

**AQ104.2.4 Ships ladders.**

Ships ladders accessing *lofts* shall comply with Sections R311.7.12.1 and R311.7.12.2. The clear width at and below handrails shall be not less than 20 inches (508 mm).

**AQ104.2.5 Loft Guards.**

*Loft* guards shall be located along the open side of *lofts*. *Loft* guards shall be not less than 36 inches in height or one-half of the clear height to the ceiling, whichever is less.

**SECTION AQ105**

**EMERGENCY ESCAPE AND RESCUE OPENINGS**

**AQ105.1 General.**

*Tiny houses* shall meet the requirements of Section R310 for emergency escape and rescue openings.

**Exception:** *Egress roof access windows* in *lofts* used as sleeping rooms shall be deemed to meet the requirements of Section R310 where installed such that the bottom of the opening is not more than 44 inches (1118 mm) above the *loft* floor, provided the egress roof access window complies with the minimum opening area requirements of Section R310.2.1.

**End of International Residential Code® 2015 amendments**

**International Swimming Pool and Spa Code® 2015 amendments***ISPSC adopted HB562-2019 – effective September 15, 2019***1) Amend Section 101.1 as follows (SP-15-01-15):***Ratified SB15-2021; effective July 23, 2021*

**R101.1 Title.** These regulations shall be known as the *Swimming Pool and Spa Code* of the State of New Hampshire hereinafter referred to as "this code."

**2) Amend Section 105.1 as follows (SP-15-02-15):***Ratified SB15-2021; effective July 23, 2021*

**105.1 When required.** Any owner, or owner's authorized agent who desires to construct, enlarge, alter, repair, move, or demolish a pool or spa or to erect, install, enlarge, alter, repair, remove, convert or replace any system, the installation of which is regulated by this code, or to cause any such work to be performed, shall first make application to the code official and obtain the required permit for the work.

**105.1.1 NH Department of Environmental Services Approval.** All swimming pools and spas, meeting the definition of public bathing space or public bathing facility per Env-Wq 1100 rules, shall secure NHDES approval in addition to local jurisdiction approval.

**3) Amend Section 105.6.2 as follows (SP-15-07-18):***Ratified HB562-2019; effective September 15, 2019*

**105.6.2 Fee schedule.** The fees for work shall be as indicated in the following schedule:

[LOCAL JURISDICTION TO INSERT APPROPRIATE SCHEDULE]

**4) Delete Section 105.6.3 as follows (SP-15-08-18):***Ratified HB562-2019; effective September 15, 2019*

**105.6.3 Fee refunds.**

**5) Amend Section 107.4 as follows (SP-15-04-15):***Ratified SB15-2021; effective July 23, 2021*

**107.4 Violation penalties.** Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter or repair a pool or spa in violation of the *approved* construction documents or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall subject to penalties as prescribed by law. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

**6) Amend Section 107.5 as follows (SP-15-05-15):***Ratified SB15-2021; effective July 23, 2021*

**107.5 Stop work orders.** Upon notice from the *code official*, work on any system that is being performed contrary to the provisions of this code or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, or to the owner's authorized agent, or to the person performing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work in or about the structure after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law.

**7) Amend Section 302.1 as follows (SP-15-06-15):**

*Ratified SB15-2021; effective July 23, 2021*

**302.1 Electrical.** Electrical requirements for aquatic facilities shall be in accordance with the edition of NFPA 70 referenced in RSA 155-A.

**End of *International Swimming Pool and Spa Code*<sup>®</sup> 2015 amendments**

UNOFFICIAL

## NFPA 70™ – National Electrical Code® 2017 amendments

*NEC adopted SB 135-2017 – effective January 1, 2018*

### 1) Amend Section 210.5(C) as follows (EL-17-02-17):

*Ratified HB562-2019; effective September 15, 2019*

#### 210.5 Identification for Branch Circuits

(C) **Identification of Ungrounded Conductors.** Ungrounded conductors shall be identified in accordance with 210(C) (1) or (2), as applicable

(1) Where the premises wiring system has branch circuits supplied by more than one nominal voltage system, each ungrounded conductor of a branch circuit shall be identified by system at all termination, connection and splice points in compliance with 210(5)(C)(1)(a) or (b).

(a) *Means of Identification* The means of identification shall be permitted to be by separate color coding, marking tape, tagging, or other approved means.

(b) *Posting of Identification Means* The method utilized for conductors originating within each branch-circuit panel board or similar branch-circuit distribution equipment shall be documented in a manner that is readily available or shall be permanently posted at each branch-circuit panelboard or similar branch-circuit distribution equipment. The label shall be of sufficient durability to withstand the environment involved and shall not be handwritten. The label shall be of sufficient durability to withstand the environment involved and shall not be handwritten.

### 2) Amend Section 210.12 as follows (EL-17-03-17):

*Ratified HB562-2019; effective September 15, 2019*

**210.12 Arc-Fault Circuit Interrupter Protection.** Arc Fault Circuit Interrupter protection shall be provided as required in 210.12 (A), (B) and (C). The arc fault circuit interrupter shall be installed in a readily accessible location.

**Exception 1:** Where the connection of a listed device or appliance for medical purposes is determined by a New Hampshire licensed electrician as the cause of repeated tripping of an AFCI, that AFCI shall be permitted to be replaced with a device that does not provide AFCI protection in accordance with (1) and (2).

(1) **Marking.** A label shall be provided at the branch circuit overcurrent protective device and all receptacles supplied by that branch circuit stating “No AFCI Protection.”

(2) **Notifications.** A form available at the NH Electricians’ Licensing Board website shall be filed with the Board and local authority having jurisdiction by the licensed electrician removing the AFCI. The form shall be filed by registered letter or email with read receipt requested within five (5) working days following the AFCI replacement.

**Exception 2:** After repeated tripping of an AFCI device and determination the branch circuit is not causing the AFCI to trip, an AFCI device shall be permitted to be replaced with one without AFCI protection in accordance with (A) – (D).

(A) **Marking.** All receptacle outlets on the branch circuit without AFC/ protection shall be marked "No AFC I Protection."

(B) **Notifications.** An incident report shall be filed by registered letter or email with a read receipt requested in accordance with (a) and (b).

(a) By the property owner to all occupants if applicable: and

(b) By the electrician with the New Hampshire Electricians' Licensing Board if he or she is performing the replacement.

(C) **Time Periods.** The time periods for the AFCI device replacement and incident reporting shall be in accordance with (1) and (2):

(1) The device Without AFC/ protection shall be permitted to remain in place for the period of time it takes for the manufacturer(s) to resolve the matter.

- (2) The incident report shall be post marked within 5 working days or by email with an electronic read receipt request within 5 working days of replacing the AFCI device.
- (D) **Incident Report.** A form available at the NH Electricians' Licensing Board website shall be used to file with the Board by the owner or licensed electrician removing the AFCI.

**3) Amend Section 250.140 as follows (EL-17-06-20):**

*Ratified SB15-2021; effective July 23, 2021*

**250.140 Frames of Ranges and Clothes Dryers.** Frames of electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers, and outlet or junction boxes that are part of the circuit for these appliances shall be connected to the equipment grounding conductor in the manner specified by 250.134 or 250.138.

Exception No.1: For existing branch-circuit installations only where an equipment grounding conductor is not present in the outlet or junction box, the frames of electric ranges, wall-mounted ovens, counter mounted cooking units, clothes dryers, and outlet or junction boxes that are part of the circuit for these appliances shall be permitted to be connected to the grounded circuit conductor if all the following conditions are met.

- (1) The supply circuit is 120/240-volt, single-phase, 3-wire; or 208Y/120-volt derived from a 3-phase, 4-wire, wye-connected system.
- (2) The grounded conductor is not smaller than 10 A WG copper or 8 A WG aluminum.
- (3) The grounded conductor is insulated, or the grounded conductor is uninsulated and part of a Type SE service-entrance cable and the branch circuit originates at the service equipment.
- (4) Grounding contacts of receptacles furnished as part of the equipment are bonded to the equipment.

Exception No. 2: For existing branch-circuit installations only where the equipment supplies a dwelling unit(s) and there is no equipment grounding conductor present in the outlet or junction box, the frames of the appliances specified in Exception No. 1 shall be permitted to be connected to the grounded conductor provided all the conditions specified in (1), (2) and (4) of Exception No. 1 are met, the grounded conductor of the circuit supplying the appliance(s) is part of a nonmetallic sheathed cable and it is insulated or covered within the supply enclosure so it does not make contact with any normally non-current-carrying metal parts.

**4) Amend Section 334.10 as follows (EL-17-01-17):***Ratified HB562-2019; effective September 15, 2019*

**334.10 Uses Permitted.** Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following, except as prohibited in 334.12:

- (1) No change.
- (2) Multi-family dwellings permitted to be of Types III, IV, and V construction.
- (3) Other structures permitted to be of Types III, IV and V construction. Except as permitted by 334.10(6), cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.
 

**Exception to (2) and (3):** For buildings or structures required to be of Type I or Type II construction, Type NM, Type NMC, and Type NMS cables shall be permitted to be used, provided that where so applied in buildings or structures exceeding three stories above grade, circuits run in Type NM, NMC or NMS cable shall not leave the floor or dwelling unit from which the circuits originate
- (4) No change.
- (5) No change.
- (6) Exposed within:
  - a. dropped and suspended ceiling cavities.
  - b. accessible attics and roof spaces.
  - c. unfinished basements and crawl spaces.

Except as Permitted by 334.30 (B) (2) for connections to luminaires and equipment, cables shall be installed to closely follow the surface of framing members, running boards, or the equivalent.

**5) Amend Section 334.12 as follows (EL-17-01-17):***Ratified HB562-2019; effective September 15, 2019***334.12 Uses Not Permitted.**

- (A) Types NM, NMC, and NMS. Types NM, NMC, and NMS cables shall not be permitted as follows:
- (1) In any dwelling or structure not specifically permitted in 334.10(1), (2), (3) and (5)
  - (2) As service-entrance cable.
  - (3) In commercial garages having hazardous (classified) locations as defined in 511.3.
  - (4) In theaters and similar locations, except where permitted in 518.4(8).
  - (5) In motion picture studios.
  - (6) In storage battery rooms.
  - (7) In hoistways or on elevators or escalators.
  - (8) Embedded in poured cement, concrete, or aggregate.
  - (9) In hazardous (classified) locations, except where specifically permitted by other articles in this Code.

**6) Amend Section 334.30(8)(2) as follows (EL-17-01-17):***Ratified HB562-2019; effective September 15, 2019*

**334.30(8)(2).** Is not more than 1.4 m (4½ ft.) from the last point of cable support to the point of connection to a luminaire or other piece of electrical equipment and the cable and point of connection are within an accessible ceiling.

**End of NFPA 70™ – National Electrical Code® 2017 amendments**