# New Hampshire Building Code including Amendments

## July 1, 2026

**This courtesy summary of the New Hampshire Building Code amendments is provided for the convenience of the user by the Building Code Review Board and consists of the applicable codes and amendments which have been reviewed and approved by the Board through October 10, 2025, ratified by the General Court per HB1159-2026, signed by the governor on May 8, 2026 and effective July 1, 2026.**

**This edition includes updating six of the adopted model codes to the 2024 edition, excluding the 2018 IECC and the 2023 NEC, and all effective amendments.**

**This document is correct to the best of the Board's knowledge, however, for the legal record of the applicable codes and amendments, refer to the above ratification legislation and the specific amendment exhibits. The Board assumes no liability for errors and/or omissions contained herein.**

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# Applicable Codes

Per RSA 155-A:1, IV, the New Hampshire Building Code means the adoption by reference of the following:

International Building Code 2024

International Existing Building Code 2024

International Energy Conservation Code 2018

International Mechanical Code 2024

International Plumbing Code 2024

International Residential Code 2024

International Swimming Pool and Spa Code 2024

NFPA 70 - National Electrical Code 2023

All amendments reviewed and approved by the BCRB through October 10, 2025.

**NOTE: Subsequent to the ratification date, HB244-2025 relocated some of the information contained in various RSAs referenced in this document. This document reflects the new reference locations; however, these corrected reference locations have not yet been ratified.**

Per RSA 155-A:2, 1:

The state building code in effect at the time that the application for the building permit required by RSA 155-A:4 is received by the governing authority shall remain in effect for the duration of the work covered by that permit. This requirement notwithstanding, for a period of 6 months after the effective date of the code adopted under RSA 155-A:1, IV, a concurrency period is established, allowing building permits, and other required documents, at the election of the applicant, to show compliance using either the code in effect just prior the effective date of the code adopted under RSA 155-A:1, IV, or the code adopted under RSA 155-A:1, IV, but not a combination of the 2 codes.

Note: While it is not the intent of this document to reference all statutes that may affect the requirements of this code, refer to RSA 155:40 for additional plumbing system requirements for food establishments where alcohol is served.

**Delete Chapter 1 from the *International Building Code* 2024, the *International Existing Building Code* 2024, the *International Plumbing Code* 2024, the *International Mechanical Code* 2024, the *International Energy Conservation Code* 2018, the *International Swimming Pool and Spa Code* 2024 and the *International Residential Code 2024*. (C1-24-01-25)**

# New Hampshire State Building Code Administrative Amendment

## (C1-24-01-25)

### SECTION 101 SCOPE AND GENERAL REQUIREMENTS

**101.1 Title.**

These regulations shall be known as the State *Building Code* , hereinafter referred to as "this code" as identified in RSA 155-A:1,IV.

New Hampshire building code" or "State Building Code" means the adoption by reference of the *International Building Code* 2024, the *International Existing Building Code* 2024, the *International Plumbing Code* 2024, the *International Mechanical Code 2024*, the *International Energy Conservation Code* 2018, the *International Swimming Pool and Spa Code* 2024 and the *International Residential Code* 2024, as published by the International Code Council Inc., and the *National Electrical Code* 2023, as published by the National Fire Protection Association, Inc., as reviewed and recommended by the State Building Code Review Board, including all amendments reviewed and approved by the board as of the dates established by statute, and ratified by the legislature in accordance with RSA 155-A:10.

**101.2 Scope.**

The provisions of this code shall apply as described in this Section.

**101.2.1 Building.** The provisions of the *International Building Code*, as amended, shall apply to the construction, alteration, relocation, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures, including the following appendices.

101.2.1.1. *International Building Code* Appendix C – Group U–Agricultural Buildings.

101.2.1.2. *International Building Code* Appendix P – Sleeping Lofts.

**Exception:** Detached one- and two-family *dwellings* and *townhouses* not more than three *stories above grade plane* in height with a separate *means of egress*, and their accessory *structures* not more than three *stories above grade plane* in height, shall comply with this code or the *International Residential Code*.

**101.2.2 Residential.** The provisions of the *International Residential Code*, as amended, shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures not more than three stories above grade plane in height, including the following appendices.

101.2.2.1. *International Residential Code* Appendix BB – Tiny Houses.

101.2.2.2. *International Residential Code* Appendix BO – Existing Buildings and Structures.

Where additions, *alterations* or changes of use to an existing structure result in a use, occupancy, height or means of egress outside the scope of the *International Residential Code*, the building shall comply with the *International Existing Building Code*.

**Exception:** The following shall be permitted to be constructed in accordance with this code where provided with an automatic sprinkler system complying with Section P2904:

1. Live/work units located in *townhouses* and complying with the requirements of Section 508.5 of the *International Building Code*.

2. *Owner*-occupied *lodging houses* with five or fewer *guestrooms*.

3. A care facility with five or fewer *persons* receiving custodial care within a *dwelling unit*.

4. A care facility with five or fewer persons receiving medical care within a *dwelling unit*.

5. A day care facility for five or fewer *persons* of any age receiving care within a *dwelling unit*.

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

**Exception:** Detached one- and two-family *dwellings* and *townhouses* not more than three *stories above grade plane* in height with a separate *means of egress*, and their accessory *structures* not more than three *stories above grade plane* in height, shall comply with the *International Mechanical Code* or the *International Residential Code*.

**101.2.4 Plumbing.** The provisions of the *International Plumbing Code*, as amended, shall apply to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems. including nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems, including the following appendices.

101.2.4.1. *International Plumbing Code* Appendix B – Rates of Rainfall for Various Cities.

101.2.4.2. *International Plumbing Code* Appendix C – Structural Safety.

**Exception:** Detached one- and two-family *dwellings* and *townhouses* not more than three *stories above grade plane* in height with a separate *means of egress*, and their accessory *structures* not more than three *stories above grade plane* in height, shall comply with the *International Plumbing Code* or the *International Residential Code*.

**101.2.5 Energy.** The provisions of the *International Energy Conservation Code*, as amended, shall apply to the design and construction of buildings for effective use and conservation of energy over the useful life of each building. Where a building includes both *residential building* and *commercial building* portions, each portion shall be separately considered and meet the applicable provisions of commercial provisions (CE) or residential provisions (RE).

**Exception:** References to the 2006 *International Energy Conservation Code* are deemed references to the 2006 *International Energy Conservation Code*, as amended, during the period the 2006 *International Energy Conservation Code* was applicable in New Hampshire.

**101.2.5.1.** The commercial provisions (CE) shall apply to buildings not covered by the scope of the residential provisions (RE).

**Exception:** Any building four stories or less above grade plane in height and less than 4,000 square feet (372 $m^2$) in gross floor area is permitted to show compliance with the residential provisions (RE) rather than the commercial provisions which would otherwise be applicable.

**101.2.5.2.** The residential provisions (RE) shall apply to buildings of detached one- and two-family dwellings and multiple single-family dwellings (townhouses) and Group R-2, R-3 and R-4 buildings four stories or less in height above grade plane.

**Exception:** Any building four stories or less above grade plane in height and less than 4,000 square feet (372 $m^2$) in gross floor area is permitted to show compliance with the residential provisions (RE) rather than the commercial provisions which would otherwise be applicable.

**101.2.6 Existing Buildings.** The provisions of the *International Existing Building Code*, as amended, shall apply to the repair, alteration, change of occupancy, addition to and relocation of existing buildings. The intent is to provide flexibility to permit the use of alternative approaches to achieve compliance with minimum requirements to provide a reasonable level of safety, health, property protection and general welfare insofar as they are affected by the *repair, alteration, change of occupancy, addition* and relocation of *existing buildings*.

**Exception:** Detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress, and their accessory structures not more than three stories above grade plane in height, shall comply with the *International Existing Building Code* or Appendix BO *Existing Buildings and Structures* of the *International Residential Code*.

**101.2.7 Swimming Pools and Spas:** The provisions of the *International Swimming Pool and Spa Code*, as amended, shall apply to the construction, alteration, movement, renovation, replacement, repair and maintenance of aquatic recreation facilities, pools and spas, either permanent or temporary to be connected to a circulation system.

**Exception:** Flotation tank systems intended for sensory deprivation therapy.

**101.2.8 Electrical.** The provisions of NFPA 70, *National Electrical Code*, as amended, shall apply to the design, construction, erection and installation of electrical components, appliances, equipment, systems and the practical safeguarding of persons and property from hazards arising from the use of electricity.

**101.2.9 Appendices.** Provisions in the appendices of the codes listed in Sections 101.2.1 thru 101.2.7 shall not apply unless specifically adopted.

**101.3 Purpose.**

The purpose of this code is to establish the minimum requirements in new and existing *buildings* or structures to provide a reasonable level of safety, health and general welfare through affordability, structural strength, *means of egress*, stability,

sanitation, light and *ventilation*, electrical, energy conservation, and for providing a reasonable level of life safety and property protection from the hazards of fire, *explosion* or *dangerous* conditions, and to provide a reasonable level of safety to fire fighters and emergency responders during emergency operations.

**101.4 Referenced codes.**

The other codes specified in Sections 101.4.1 through 101.4.5 and referenced elsewhere in this code shall be considered to be part of the requirements of this code to the prescribed extent of each such reference.

**101.4.1 NFPA Codes and Standards except NFPA 70.** References to NFPA codes and standards in this code, except for NFPA 70, are deemed to be references to the edition(s) cited in the State Fire Code pursuant to RSA 153:1, as amended in Saf FMO-300. NFPA codes and standards referenced by this code are enforced by the *building official* and the fire code official.

**101.4.2 Gas.** The *International Fuel Gas Code* is not adopted by RSA 155-A:1,IV. References in this code to the *International Fuel Gas Code* are deemed to be references to the edition of NFPA 54 cited in the State Fire Code, pursuant to RSA 153:1, as amended in Saf-FMO 300. Fuel gas provisions are enforced by the *building official* and the fire code official.

**101.4.3 Fire Prevention.** The *International Fire Code* is not adopted by RSA 155-A:1,IV. References in this code to the *International Fire Code* are deemed to be references to the State Fire Code, pursuant to RSA 153:1 as amended in Saf-FMO 300. These provisions are enforced by the *building official* and by the fire code official.

**101.4.4 Private Sewage Disposal Systems.** The *International Private Sewage Disposal System Code* is not adopted by RSA 155-A:1,IV. References in this code to the *International Private Sewage Disposal System Code* are deemed to be references to RSA 485-A. These provisions are enforced by the New Hampshire Department of Environmental Services.

**101.4.5 Property Maintenance.** The *International Property Maintenance Code* is not adopted by RSA 155-A:1,IV.

## SECTION 102 APPLICABILITY

**102.1 General.**

Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern.

**102.2 Other laws.**

The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law.

**102.3 Application of references.**

References to chapter or section numbers, or to provisions not specifically identified by number, shall be construed to refer to such chapter, section or provision of this code.

**102.4 Referenced codes and standards.**

The codes and standards referenced in this code shall be considered to be part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.4.1 and 102.4.2.

**102.4.1 Conflicts.**

Where conflicts occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply. Per RSA 155-A:2, II, where conflicts occur between the provisions of this code and the State Fire Code, the code creating the greater degree of life safety shall take precedence, subject to the review provisions contained in RSA 155-A:10

**102.4.2 Provisions in referenced codes and standards.**

Where the extent of the reference to a referenced code or standard includes subject matter that is within the scope of this code, the provisions of this code shall take precedence over the provisions in the referenced code or standard.

**Exception:** As noted in Section 101.4.

**102.5 Partial invalidity.**

In the event that any part or provision of this code is held to be illegal or void, this shall not have the effect of making void or illegal any of the other parts or provisions.

**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, or the State Fire Code.

**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 this 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 State Fire Code or as is deemed necessary by the *building official* for the general safety and welfare of the occupants and the public.

## SECTION 103 CODE COMPLIANCE AGENCY

**103.1 Creation of enforcement agency.**

A municipality that has adopted enforcement provisions or additional regulations under RSA 155-A:3, a Local Enforcement Agency as defined in RSA 155-A:1,III is hereby created and the official in charge thereof shall be known as the *building official*. The function of the agency shall be the implementation, administration and enforcement of the provisions of this code.

**103.2 Appointment.**

The *building official* shall be appointed by the local governing body of the *jurisdiction* per RSA 155-A:3.

**103.3 Deputies.**

In accordance with the prescribed procedures of the local *jurisdiction* and with the concurrence of the appointing authority, the *building official* shall have the authority to appoint a deputy *building official*, other related technical officers, inspectors and other employees. Such employees shall have powers as delegated by the *building official*.

## SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL

### 104.1 General.

The *building official* is hereby authorized and directed to enforce the provisions of this code.

### 104.2 Determination of compliance.

The *building official* shall have the authority to determine compliance with this code, to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures:

1. Shall be in compliance with the intent and purpose of this code.
2. Shall not have the effect of waiving requirements specifically provided for in this code.

#### 104.2.1 Listed compliance.

Where this code or a referenced standard requires equipment, materials, products or services to be listed and a listing standard is specified, the listing shall be based on the specified standard. Where a listing standard is not specified, the listing shall be based on an *approved* listing criteria. Listings shall be germane to the provision requiring the listing. Installation shall be in accordance with the listing and the manufacturer's instructions, and where required to verify compliance, the listing standard and manufacturer's instructions shall be made available to the *building official*.

#### 104.2.2 Technical assistance.

To determine compliance with this code, the *building official* is authorized to determine compliance with this code, to require the *owner* or *owner*'s authorized agent to provide a technical opinion and report.

##### 104.2.2.1 Cost.

A technical opinion and report shall be provided without charge to the *jurisdiction*.

##### 104.2.2.2 Preparer qualifications.

The technical opinion and report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the *building official*. The *building official* is authorized to require design submittals to be prepared by, and bear the stamp of, a *registered design professional*.

##### 104.2.2.3 Content.

The technical opinion and report shall analyze the properties of the design, operation or use of the *building* or premises and the *facilities* and appurtenances situated thereon to identify and propose necessary recommendations.

##### 104.2.2.4 Tests.

Where there is insufficient evidence of compliance with the provisions of this code, the *building official* shall have the authority to require tests as evidence of compliance. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized test standards, the *building official* shall approve the testing procedures. Such tests shall be performed by a party acceptable to the *building official*.

**104.2.3 Alternative materials, design and methods of construction and equipment.**

The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been *approved*.

**104.2.3.1 Approval authority.**

An alternative material, design or method of construction shall be *approved* where the *building official* finds that the proposed alternative is satisfactory and complies with Sections 104.2.3 through 104.2.3.7, as applicable.

**104.2.3.2 Application and disposition.**

Where required, a request to use an alternative material, design or method of construction shall be submitted in writing to the *building official* for approval. Where the alternative material, design or method of construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.

**104.2.3.3 Compliance with code intent.**

An alternative material, design or method of construction shall comply with the intent of the provisions of this code.

**104.2.3.4 Equivalency criteria.**

An alternative material, design or method of construction shall, for the purpose intended, be not less than the equivalent of that prescribed in this code with respect to all of the following, as applicable:

1. Quality.
2. Strength.
3. Effectiveness.
4. Durability.
5. Safety, other than fire safety.
6. Fire safety.

**104.2.3.5 Tests.**

Tests conducted to demonstrate equivalency in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict performance of the end use configuration. Tests shall be performed by a party acceptable to the *building official*.

**104.2.3.5.1 Fire Tests.**

Tests conducted to demonstrate equivalent fire safety in support of an alternative material, design or method of construction application shall be of a scale that is sufficient to predict fire safety performance of the end use configuration. Tests shall be performed by a party acceptable to the *building official*.

**104.2.3.6 Reports.**

Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall comply with Sections 104.2.3.6.1 and 104.2.3.6.2.

**104.2.3.6.1 Evaluation reports.**

Evaluation reports shall be issued by an *approved agency* and use of the evaluation report shall require approval by the *building official* for the installation. The alternate material, design or method of construction and product evaluated shall be within the scope of the *building official*'s recognition of the *approved agency*. Criteria used for the evaluation shall be identified within the report and, where required, provided to the *building official*.

**104.2.3.6.2 Other reports.**

Reports not complying with Section 104.2.3.6.1 shall describe criteria, including but not limited to any referenced testing or analysis, used to determine compliance with code intent and justify code equivalence. The report shall be prepared by a qualified engineer, specialist, laboratory or specialty organization acceptable to the *building official*. The *building official* is authorized to require design submittals to be prepared by, and bear the stamp of, a *registered design professional*.

**104.2.3.7 Peer review.**

The *building official* is authorized to require submittal of a *peer review* report in conjunction with a request to use an alternative material, design or method of construction, prepared by a peer reviewer that is *approved* by the *building official*.

**104.2.4 Modifications.**

Where there are practical difficulties involved in carrying out the provisions of this code, the *building official* shall have the authority to grant modifications for individual cases, provided that the *building official* shall first find that one or more special individual reasons make the strict letter of this code impractical, and that the modification is in compliance with the intent and purpose of this code and that such modification does not lessen health, *accessibility*, life and fire safety or structural requirements. The details of the written request for and action granting modifications shall be recorded and entered in the files of the department of building safety.

**104.2.4.1 Flood hazard areas.**

The *building official* shall not grant modifications to any provision required in *flood hazard areas* as established by Section 1612.3 of the *International Building Code* or Table R301.2 of the *International Residential Code*, as applicable, unless a determination has been made that:

1. A showing of good and sufficient cause that the unique characteristics of the size, configuration or topography of the *site* render the elevation standards of Section 1612 inappropriate.

2. A determination that failure to grant the variance would result in exceptional hardship by rendering the *lot* undevelopable.

3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety or extraordinary public expense; cause fraud on or victimization of the public; or conflict with existing laws or ordinances.

4. A determination that the variance is the minimum necessary to afford relief, considering the *flood* hazard.

5. Submission to the applicant of written notice specifying the difference between the *design flood elevation* and the elevation to which the building is to be built, stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced floor elevation, and stating that construction below the *design flood elevation* increases risks to life and property.

**104.3 Applications and permits.**

The *building official* shall receive applications, review *construction documents,* issue *permits*, inspect the premises for which such *permits* have been issued and enforce compliance with the provisions of this code.

**104.3.1 Determination of substantially improved or substantially damaged *existing buildings and structures* in flood hazard areas.**

For applications for reconstruction, rehabilitation, *repair*, *alteration*, *addition* or other improvement of *existing buildings or structures* located in *flood hazard areas*, the *building official* shall determine if the proposed work constitutes *substantial improvement* or *repair* of *substantial damage*. Where the *building official* determines that the proposed work constitutes *substantial improvement* or *repair* of *substantial damage*, and where required by this code, the *building official* shall require the building to meet the requirements of Section 1612 of the *International Building Code*, or Section R306 of the *International Residential Code*, as applicable.

**104.4 Right of entry.**

Where it is necessary to make an inspection to enforce the provisions of this code, or where the *building official* has reasonable cause to believe that there exists in a *structure* or on a premises a condition that is contrary to or in violation of this code that makes the *structure* or premises unsafe, *dangerous* or hazardous, the *building official* is authorized to enter the *structure* or premises at all reasonable times to inspect or to perform the duties imposed by this code. If such *structure* or premises is occupied, the *building official* shall present credentials to the occupant and request entry. If such *structure* or premises is unoccupied, the *building official* shall first make a reasonable effort to locate the *owner*, the *owner*'s authorized agent or other *person* having charge or control of the *structure* or premises and request entry. If entry is refused, the *building official* shall have recourse to every remedy provided by law to secure entry.

**104.4.1 Warrant.**

Where the *building official* has first obtained a proper inspection warrant or other remedy provided by law to secure entry, an *owner*, the *owner*'s authorized agent, occupant or *person* having charge, care or control of the *structure* or premises shall not fail or neglect, after a proper request is made as herein provided, to permit entry therein by the *building official* for the purposes of inspection and examination pursuant to this code.

**104.5 Identification.**

The *building official* shall carry proper identification when inspecting *structures* or premises in the performance of duties under this code.

**104.6 Notices and orders.**

The *building official* shall issue necessary notices or orders to ensure compliance with this code. Notices of violations shall be in accordance with Section 114.

**104.7 Official records.**

The *building official* shall keep official records as required by Sections 104.7.1 through 104.7.5. Such official records shall be retained for not less than as required by RSA 33-A:3 or for as long as the building or *structure* to which such records relate remains in existence, unless otherwise provided by other regulations.

**104.7.1 Approvals.**

After any prescribed tests and inspections required by either the *International Plumbing Code* or the *International Mechanical Code* that indicate the work complies in all respects with this code, a notice of approval shall be issued by the *building official*.

A record of all approvals shall be maintained by the *building official* and shall be available for public inspection during business hours in accordance with applicable laws.

**104.7.2 Inspections.**

The *building official* shall have the authority to conduct inspections, or shall accept reports of inspection by approved agencies or individuals. The *building official* shall keep a record of each inspection made, including notices and orders issued, showing the findings and disposition of each.

**104.7.3 Code alternatives and modifications.**

Application for alternative materials, design and methods of construction and equipment in accordance with Section 104.2.3; modifications in accordance with Section 104.2.4; and documentation of the final decision of the *building official* for either shall be in writing and shall be retained in the official records.

**104.7.4 Tests.**

The *building official* shall keep a record of tests conducted to comply with Sections 104.2.2.4 and 104.2.3.5.

**104.7.5 Fees.**

The *building official* shall keep a record of fees collected and refunded in accordance with Section 109.

**104.8 Liability.**

The *building official*, member of the board of appeals or employee charged with the enforcement of this code, while acting for the *jurisdiction* in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered personally liable, either civilly or criminally, and is hereby relieved from personal liability for any damage accruing to *persons* or property as a result of any act or by reason of any act or omission in the discharge of official duties.

**104.8.1 Legal defense.**

Any suit or criminal complaint instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties under the provisions of this code or other laws or ordinances implemented through the enforcement of this code shall be defended by legal representatives of the *jurisdiction* until the final termination of the proceedings. The *building official* or any subordinate shall not be liable for costs in an action, suit or proceeding that is instituted in pursuance of the provisions of this code.

**104.9 Approved materials and equipment.**

Materials, equipment and devices *approved* by the *building official* shall be constructed and installed in accordance with such approval.

**104.9.1 Materials and equipment reuse.**

Materials, equipment and devices shall not be reused unless such elements are in good working condition and approved.

## SECTION 104-A. USE OF APPROVED AGENCIES FOR

## CONSTRUCTION DOCUMENT REVIEW AND INSPECTION OF THE WORK

**104-A.1 General.** At the discretion of the *permit* applicant, *approved agencies* may perform reviews of *construction documents* of *applicable codes* and/or inspection of the work, as an alternative to those conducted by local government agencies.

**104-A.1.1 Application.** The provisions of this section shall address *permits* where the *owner* or *owner's* authorized agent chooses to utilize the services of an *approved agency* for the services identified in this section but shall not be interpreted to restrict any other authorization for the *building official* to obtain or require the services of an *approved agency*.

**104-A.1.2 Indemnification.** Prior to the *approved agency* proceeding with the services under this section, the owner or the owner's authorized agent shall provide the following signed statement to the *building official* with the *permit* application:

> *I agree to indemnify the regulatory authority from and against losses, damages, and judgments arising from claims by third parties arising from my use of these licensed or certified personnel to provide development document reviews and building inspections with respect to the building or structure that is the subject of the enclosed application. The indemnification shall include reasonable attorneys' fees and expenses recoverable under applicable law, but only to the extent they are found to be caused by a negligent act, error, or omission of an approved agency or approved agency officers, directors, members, partners, agents, employees, or subconsultants.*

**104-A.1.3 Payments.** The *owner* or the *owner's* authorized agent shall contract with, make payment directly to, the *approved agency*.

**104-A.2 Approved agency.** An *approved agency* shall provide all information as necessary for the *building official* to determine that the agency meets the applicable requirements specified in Sections 104-A.2.1 through 104-A.2.6. If the *building official* does not *approve* a proposed agency, the reasons shall be stated in writing.)

**104-A.2.1 Qualifications.** *Approved agencies* shall be licensed professionals, including engineers, architects, or International Code Council-certified *building officials*.

**104-A.2.2 Independence.** An *approved agency* shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall disclose to the *building official* possible conflicts of interest so that objectivity can be confirmed. Individuals shall perform services only within the scope of their competence and, where applicable, license or certification.

**104-A.2.3 Equipment.** An *approved agency* shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.

**104-A.2.4 Personnel.** An *approved agency* shall employ or contract with experienced personnel educated in conducting, supervising and evaluating *construction document* reviews and inspections of the work.

**104-A.2.5 Insurance.** An *approved agency* may review *construction documents* or provide inspections only if the *approved agency* maintains insurance for professional liability covering all services performed as an *approved agency*, unless such regulatory authority waives such requirement. Such insurance shall have minimum policy limits of $2 million per

occurrence and $4 million in the aggregate for any project with a construction cost of $5 million or less and $4 million per occurrence and $8 million in the aggregate for any project with a construction cost of over $5 million. A certificate of insurance indicating the above shall be provided to the *building official* before services under this section are started, and such certificate shall require notification to the *building official* 14 days prior to any cancellation or changes to the policy.

**104-A.2.6 Contact information.** The *approved agency* shall provide complete contact information for each individual performing services under this section.

**104-A.3 Scope of Approved Agency Services**

**104-A.3.1 Construction document reviews.** The *approved agency* shall examine the *construction documents*, including deferred or amended documents, as described in Section 107.3. Upon determining compliance with *applicable codes*, the *approved agency* shall prepare an affidavit or affidavits certifying that the documents were reviewed pursuant to this section, and that to the best of the knowledge, information and belief of the reviewer, the documents comply with the New Hampshire *State Building Code* and any applicable municipal amendments.

**104-A.3.2 Inspection of the work.** The *approved agency* shall perform inspections as set forth in Section 110. Upon completion of all inspections, the *approved agency* shall submit to the regulatory authority an affidavit summarizing the inspections performed in accordance with the approved *construction documents* and *applicable codes*. The *approved agency* and affidavit shall be subject to RSA 155-A:4.

**104-A.3.3 Electronic Submissions.** *Approved agencies* may use electronic signatures and transmission for submitting *construction documents* where permitted by the municipality and for all reports and other documents required for compliance with this section.

**104-A.4 Municipal Responsibilities**

**104-A.4.1 Permit fees.** Where an *approved agency* is used for the review of all *construction documents* in lieu of *building official* review, permit fees shall be reduced by 40%. Where an *approved agency* is used for all inspections required by Section 110, permit fees shall be reduced by 40%. Where both functions are performed, permit fees shall be reduced by 80%.

**104-A.4.2 Approved agency access to records**

a. If an *owner* or an *owner's* contractor contracts with an *approved agency* to review *construction documents* and/or to provide inspections, the *building official* shall provide equal access to all related documents to the a*pproved agency*, owner, or owner's authorized agent that would be provided to the *building official* in completing review of *construction documents*, or inspections.

b. If such access is normally provided by software that protects exempt records from disclosure, the regulatory authority shall provide requested permitting or inspection documents and reports to the independent provider, owner, or contractor within two business days of a request in electronic format.

**104-A.4.3 Issuance of permit.** No more than 14 calendar days after receipt of a *construction document* affidavit, an application for a building *permit*, and the payment of applicable fees, the *building official* issue the building *permit*, or shall provide a written notice to the applicant identifying the specific features that do not comply with the applicable codes and regulations, or the lack of sign-offs from other federal, state or municipal agencies, as well as the specific code or regulation reference. If no written notice of deficiencies is provided within the prescribed period, the document or *permit* shall be deemed approved as a matter of law, and any necessary permit or permits shall be issued by the *building official* on the next business day. If the *permit* applicant submits revisions, the *building official* has the remainder of the tolled business

days plus one business day from the date of resubmittal to issue the building *permit* or provide a second written notice to the permit applicant stating which of the previously identified documents or *permit* features remain in noncompliance with the applicable codes, with specific reference to the relevant code or regulation reference. If the *building official* does not provide the second written notice within the prescribed period, the *construction document* or building *permit* shall be deemed *approved* as a matter of law, and any necessary permits shall be issued by the *building official* on the next business day.

**104-A.4.4 Issuance of certificate of occupancy.** No more than 10 calendar days after the receipt of the inspection affidavit indicating the completion of all necessary inspections, and after the payment of all outstanding required fees, a certificate of occupancy or completion shall be issued by the *building official*, or the *building official* shall provide a notice to the *approved agency* of any specific deficiencies in the affidavit, with reference to specific code chapters and if the regulatory authority does not issue the certificate of occupancy or completion or provide notice within the required number of days, the certificate of occupancy or completion is considered granted as a matter of law and shall be issued the next business day.

**104-A.4.5 Audits.** The b*uilding official* shall *audit* a percentage of inspections performed by *approved agencies* within their jurisdiction to ensure compliance with applicable codes. *Audits* shall be conducted randomly and without prior notice to the *approved agency*. The local enforcement agency shall have the authority to take corrective action if any violations are found during the *audit*.

a. Each *building official* may *audit* the performance of *approved agencies* operating within their jurisdiction and demand of the owner or owner's authorized agent to know the times of requested *building inspections* by the *approved agency*, although the fact of the *audit* shall not be given to the *approved agency*.

b. *Audits* may be conducted only after the *building official* has created a formal *audit* evaluation.

c. The same *approved agency* may be *audited* no more than 4 times in a month, unless the *building official* determines that the condition of a building constitutes an immediate threat to public safety and welfare.

d. The *building official* may, upon clear and convincing evidence, decide that an independent provider has been negligent in providing *construction document* reviews or *building inspections*, suspend the *approved agency* from further work on that project and in that municipality for not more than one year. Notwithstanding any provision of this section, the *building official* may file a complaint per RSA 310-A:22 for engineers, per RSA 310-A:47 for architects, or with the Building Code Review Board for ICC-certified *building officials*.

**104-A.5 Limits placed on the municipality.**

**104-A.5.1** A municipality may not adopt or enforce any ordinances, laws, rules, procedures, policies, qualifications, or standards regarding independent providers more restrictive than those prescribed by section.

**104-A.5.2** This section shall not be construed to limit or deny the authority of the *building official* to issue a stop-work order for a project or any portion of the project, as provided by law, if the *building official* determines that a condition on the building site constitutes an immediate threat to public safety and welfare.

**104-A.5.3 Appeals.**

**104-A.5.3.1** Notwithstanding any provision of this section, any decisions regarding the issues addressed by this section are permitted to be appealed to the Building Code Review Board, which shall adjudicate the dispute per statute.

**104-A.5.3.2** If an applicant believes that the Building Code Review Board has interpreted the requirements of this section in error, the *approved agency* or owner or owner's authorized agent may file a proceeding in a court of

competent jurisdiction seeking a determination that the issues addressed by this section comply with all relevant requirements and seek an order requiring the *building official* to issue any necessary building *permits* or certificate of occupancy or completion.

**104-A.6 DEFINITIONS FOR SECTION 104-A ONLY**

**APPLICABLE CODES.** The New Hampshire *State Building Code* and any local technical amendments, excluding fire prevention and fire safety codes except as referenced by the *State Building Code*.

**APPROVED AGENCY.** An established and recognized agency or individual that is regularly engaged in reviewing construction documents, conducting tests, furnishing inspection services or furnishing product certification where such agency has been *approved* by the *building official*.

**AUDIT.** The process to assess that *construction document* review and inspection services have generally been performed properly by the private provider.

**BUILDING INSPECTION.** The inspection of an improvement to land as required by the *State Building Code* as part of a project to develop or improve an improvement to the land, *building*, or structure.

**BUILDING OFFICIAL.** The officer or other designated authority charged with the administration and enforcement of this code and other applicable codes, or a duly authorized representative.

**CONSTRUCTION DOCUMENTS.** Written, graphic, and pictorial documents prepared or assembled for describing the design, location, and physical characteristics of the elements of a project necessary for obtaining a building *permit.* Construction documents do not include applications or documents generated for zoning or planning approvals.

**SECTION 105 PERMITS**

**105.1 Required.**

Any *owner* or *owner*'s authorized agent who intends to construct, enlarge, alter, *repair*, move, demolish or change the occupancy of a *building* or *structure*, or to erect, install, enlarge, alter, *repair*, remove, convert or replace any electrical, gas, mechanical or plumbing 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 *building official* and obtain the required *permit*.

**Exception.** The State Fire Marshal shall issue *permits* for buildings owned by the state, the community college system of New Hampshire, and the university system per RSA 155-A:2, IV.

**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 New Hampshire Department of Environmental Services approval in addition to local jurisdiction approval.

**105.1.2 Annual permit.**

Instead of an individual *permit* for each *alteration* to an already *approved* electrical, gas, mechanical or plumbing installation, the *building official* is authorized to issue an annual *permit* upon application therefor to any *person*, firm or corporation regularly employing one or more qualified tradespersons in the building, *structure* or on the premises owned or operated by the applicant for the *permit*.

**105.1.3 Annual permit records.**

The *person* to whom an annual *permit* is issued shall keep a detailed record of *alterations* made under such annual *permit*. The *building official* shall have access to such records at all times or such records shall be filed with the *building official* as designated.

**105.2 Work exempt from permit.**

Exemptions 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. *Permits* shall not be required for the following as applicable:

**105.2.1 *International Building Code*:**

- **Building:**

  1. One-story detached accessory *structures* used as tool and storage sheds, playhouses and similar uses, provided that the floor area is not greater than 120 square feet (11 $m^2$).

  2. Fences, other than swimming pool barriers, not over 7 feet (2134 mm) high.

  3. Oil derricks.

  4. Retaining walls that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.

  5. Water tanks supported directly on grade if the capacity is not greater than 5,000 gallons (18 925 L) and the ratio of height to diameter or width is not greater than 2:1.

  6. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any *basement* or *story* below and are not part of an *accessible route*.

  7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.

  8. Temporary motion picture, television and theater stage sets and scenery.

  9. Prefabricated *swimming pools* accessory to a Group R-3 occupancy that are less than 24 inches (610 mm) deep, are not greater than 5,000 gallons (18 925 L) and are installed entirely above ground.

  10. Shade cloth *structures* constructed for nursery or agricultural purposes, not including service systems.

  11. Swings and other playground equipment accessory to detached one- and two-family *dwellings*.

  12. Window *awnings* in Group R-3 and U occupancies, supported by an *exterior wall* that do not project more than 54 inches (1372 mm) from the *exterior wall* and do not require additional support.

  13. Nonfixed and movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches (1753 mm) in height.

  14. Temporary event tents less than 400 square feet.

  15. Replastering or resurfacing of an existing pool or spa.

- **Electrical:**

  1. ***Repairs* and maintenance:** Minor *repair* work, including the replacement of lamps or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles.

  2. **Radio and television transmitting stations:** The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installations of towers and antennas.

  3. **Temporary testing systems:** A *permit* shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

- **Gas:**

  1. Portable heating appliance.

  2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

- **Mechanical:**

  1. Portable heating appliance.

  2. Portable ventilation equipment.

  3. Portable cooling unit.

  4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.

  5. Replacement of any part that does not alter its approval or make it unsafe.

  6. Portable evaporative cooler.

  7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of refrigerant and actuated by motors of 1 horsepower (0.75 kW) or less.

- **Plumbing:**

  1. The stopping of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a *permit* shall be obtained and inspection made as provided in this code.

  2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided that such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

**105.2.2. *International Residential Code*:**

- **Building:**

  1. Other than *storm shelters*, one-*story* detached *accessory structures,* provided that the floor area does not exceed 200 square feet (18.58 $m^2$).

     1.1 Tents of any size erected as an accessory structure on property that is an owner occupied one- or two-family dwelling.

2. Fences not over 7 feet (2134 mm) high.

3. *Retaining walls* that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge.

4. Water tanks supported directly upon *grade* if the capacity does not exceed 5,000 gallons (18 927 L) and the ratio of height to diameter or width does not exceed 2 to 1.

5. Sidewalks and driveways.

6. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.

7. Prefabricated swimming pools that are less than 24 inches (610 mm) deep.

8. Swings and other playground equipment.

9. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support.

10. Decks not exceeding 200 square feet (18.58 $m^2$) in area, that are not more than 30 inches (762 mm) above *grade* at any point, are not attached to a *dwelling* or *townhouse* and do not serve the exit door required by Section R318.4.

11. Replastering or resurfacing of an existing pool or spa.

- **Electrical:**

1.*Listed* cord-and-plug connected temporary decorative lighting.

2.Reinstallation of attachment plug receptacles but not the outlets therefor.

3.Replacement of branch circuit overcurrent devices of the required capacity in the same location.

4.Electrical wiring, devices, *appliances,* apparatus or *equipment* operating at less than 25 volts and not capable of supplying more than 50 watts of energy.

5.Minor *repair* work, including the replacement of lamps or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles.

- **Gas:**

1.Portable heating, cooking or clothes drying *appliances*.

2.Replacement of any minor part that does not alter approval of *equipment* or make such *equipment* unsafe.

3.Portable-fuel-cell *appliances* that are not connected to a fixed piping system and are not interconnected to a power grid.

- **Mechanical:**

1.Portable heating *appliances*.

2.Portable ventilation *appliances*.

3.Portable cooling units.

4.Steam, hot- or chilled-water piping within any heating or cooling *equipment* regulated by this code.

5.Replacement of any minor part that does not alter approval of *equipment* or make such *equipment* unsafe.

6.Portable evaporative coolers.

7.Self-contained refrigeration systems containing 10 pounds (4.54 kg) or less of refrigerant or that are actuated by motors of 1 horsepower (746 W) or less.

8.Portable-fuel-cell *appliances* that are not connected to a fixed piping system and are not interconnected to a power grid.

- **Plumbing:**

1.The stopping of leaks in drains, water, soil, waste or vent pipe; provided, however, that if any concealed trap, drainpipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a *permit* shall be obtained and inspection made as provided in this code.

2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures, and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

**105.2.2.1 Repairs.**

Application or notice to the *building official* is not required for ordinary repairs to structures, replacement of lamps or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs include *addition* to, *alteration* of, replacement or relocation of any water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

**105.2.4 Emergency repairs.**

Where equipment replacements and *repairs* must be performed in an emergency situation, the *permit* application shall be submitted within the next working business day to the *building official*.

**105.2.5 Public service agencies.**

A *permit* shall not be required for the installation, *alteration* or *repair* of generation, transmission, distribution or metering or other related equipment that is under the ownership and control of public service agencies by established right.

**105.3 Application for permit.**

To obtain a *permit*, the applicant shall first file an application therefor in writing on a form furnished by the department of building safety for that purpose. Such application shall:

1. Identify and describe the work to be covered by the *permit* for which application is made.

2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed *building* or work.

3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by *construction documents* and other information as required in Section 107.
5. State the valuation of the proposed work.
6. Be signed by the applicant, or the applicant's authorized agent.
7. Give such other data and information as required by the *building official*.

**105.3.1 Action on application.**

The *building official* shall examine or cause to be examined applications for *permits* and amendments thereto within a reasonable time after filing. If the application or the *construction documents* do not conform to the requirements of pertinent laws, the *building official* shall reject such application in writing, stating the reasons therefor. If the *building official* is satisfied that the proposed work conforms to the requirements of this code and laws and ordinances applicable thereto, the *building official* shall issue a *permit* therefor as soon as practicable.

**105.3.2 Time limitation of application.**

An application for a *permit* for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a *permit* has been issued; except that the *building official* is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**105.4 Validity of permit.**

The issuance or granting of a *permit* shall not be construed to be a *permit* for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the *jurisdiction*. *Permit*s presuming to give authority to violate or cancel the provisions of this code or other ordinances of the *jurisdiction* shall not be valid. The issuance of a *permit* based on *construction documents* and other data shall not prevent the *building official* from requiring the correction of errors in the *construction documents* and other data. The *building official* is authorized to prevent occupancy or use of a *structure* where in violation of this code or of any other ordinances of this *jurisdiction*.

**105.5 Expiration.**

Every *permit* issued shall become invalid unless the work on the *site* authorized by such *permit* is commenced within 180 days after its issuance, or if the work authorized on the *site* by such *permit* is suspended or abandoned for a period of 180 days after the time the work is commenced. The *building official* is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**105.6 Suspension or revocation.**

The *building official* is authorized to suspend or revoke a *permit* issued under the provisions of this code wherever the *permit* is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of this code.

**105.7 Placement of *permit*.**

The building *permit* or copy shall be kept on the *site* of the work until the completion of the project.

## SECTION 106 OTHER REQUIREMENTS.

### 106.1 Live loads posted.

In commercial or industrial *buildings* governed by the *International Building Code*, for each floor or portion thereof designed for *live loads* exceeding 50 psf (2.40 kN/$m^2$), such design *live loads* shall be conspicuously posted by the *owner* or the *owner*'s authorized agent in that part of each story in which they apply, using durable signs. It shall be unlawful to remove or deface such notices.

#### 106.1.1 Issuance of certificate of occupancy.

A certificate of occupancy required by Section 111 shall not be issued until the floor load signs, required by Section 106.1, have been installed.

#### 106.1.2 Restrictions on loading.

It shall be unlawful to place, or cause or permit to be placed, on any floor or roof of a *building, structure* or portion thereof, a *load* greater than is permitted by this code.

**106.2 Toilet Facilities for Workers.** For buildings complying with the *International Residential Code*, **t**oilet 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.

## SECTION 107 CONSTRUCTION DOCUMENTS

### 107.1 General.

Submittal documents consisting of *construction documents*, statement of *special inspections*, geotechnical report and other data shall be submitted in two or more sets, or in a digital format where allowed by the *building official*, with each *permit* application. The *construction documents* shall be prepared by a *registered design professional* where required by the statutes of the *jurisdiction* in which the project is to be constructed. Where special conditions exist, the *building official* is authorized to require additional *construction documents* to be prepared by a *registered design professional*.

**Exception:** The *building official* is authorized to waive the submission of *construction documents* and other data not required to be prepared by a *registered design professional* if it is found that the nature of the work applied for is such that review of *construction documents* is not necessary to obtain compliance with this code.

### 107.2 Construction Documents

*Construction documents* shall be in accordance with Sections 107.2.1 through 107.2.8, as applicable.

**Exception.** *Construction documents* reviewed in accordance with Section 104-A.

#### 107.2.1 International Building Code.

##### 107.2.1.1 Information on construction documents.

*Construction documents* shall be dimensioned and drawn on suitable material. Electronic media documents are permitted to be submitted where *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 detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*.

**107.2.1.2 Fire protection system shop drawings.**

Shop drawings for the *fire protection systems* shall be submitted to indicate conformance to this code and the *construction documents* and shall be *approved* prior to the start of system installation. Shop drawings shall contain all information as required by the referenced installation standards in Chapter 9.

**107.2.1.3 Means of egress.**

The *construction documents* shall show in sufficient detail the location, construction, size and character of all portions of the *means of egress* including the path of the exit discharge to the *public way* in compliance with the provisions of this code. In other than occupancies in Groups R-2, R-3, and I-1, the *construction documents* shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.

**107.2.1.4 Exterior wall envelope.**

*Construction documents* for all *buildings* shall describe the *exterior wall envelope* in sufficient detail to determine compliance with this code. The *construction documents* shall provide details of the *exterior wall envelope* as required, including flashing, intersections with dissimilar materials, corners, end details, control joints, intersections at roof, eaves or parapets, means of drainage, *water-resistive barrier* and details around openings.

The *construction documents* shall include manufacturer's installation instructions that provide supporting documentation that the proposed penetration and opening details described in the *construction documents* maintain the weather resistance of the *exterior wall envelope*. The supporting documentation shall fully describe the *exterior wall* system that was tested, where applicable, as well as the test procedure used.

**107.2.1.5 Exterior balconies and elevated walking surfaces.**

Where balconies or other elevated walking surfaces have *weather-exposed surfaces*, and the structural framing is protected by an impervious moisture barrier, the *construction documents* shall include details for all elements of the impervious moisture barrier system. The *construction documents* shall include manufacturer's installation instructions.

**107.2.1.6 Site plan.**

The *construction documents* submitted with the application for *permit* shall be accompanied by a *site* plan showing to scale the size and location of new construction and *existing structures* on the *site*, distances from *lot lines*, the established street grades and the proposed finished grades and, as applicable, *flood hazard areas, floodways*, and *design flood elevations*; and it shall be drawn in accordance with an accurate boundary line survey. In the case of demolition, the site plan shall show construction to be demolished and the location and size of *existing structures* and construction that are to remain on the *site* or plot. The *building official* is authorized to waive or modify the requirement for a site plan where the application for *permit* is for *alteration* or *repair* or where otherwise warranted.

**107.2.1.6.1 Design flood elevations.**

Where *design flood elevations* are not specified, they shall be established in accordance with Section 1612.3.1.

**107.2.1.7 Structural information.**

The *construction documents* shall provide the information specified in Section 1603.

**107.2.1.8 Relocatable buildings.**

*Construction documents* for *relocatable buildings* shall comply with Section 3112.

**107.2.2 International Residential Code.**

**107.2.2.1 Information on construction documents.**

*Construction documents* shall be drawn upon suitable material. Electronic media documents are permitted to be submitted where *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 detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official.*

**107.2.2.2 Manufacturer's installation instructions.**

Manufacturer's installation instructions, as required by this code, shall be available on the job site at the time of inspection.

**107.2.2.3 Information on braced wall design.**

For *buildings* and structures utilizing braced wall design, and where required by the *building official*, *braced wall lines* shall be identified on the *construction documents.* Pertinent information including, but not limited to, bracing methods, location and length of *braced wall panels* and foundation requirements of *braced wall panels* at top and bottom shall be provided.

**107.2.2.4 Information for construction in flood hazard areas.**

For *buildings* and structures located in whole or in part in flood hazard areas as established by Table R301.2, *construction documents* shall include:

1.Delineation of flood hazard areas, floodway boundaries and flood zones and the design flood elevation, as appropriate.

2.The elevation of the proposed lowest floor, including *basement*; in areas of shallow flooding (AO Zones), the height of the proposed lowest floor, including *basement*, above the highest adjacent *grade*.

3.The elevation of the bottom of the lowest horizontal structural member in coastal high-hazard areas (V Zone) and in Coastal A Zones where such zones are delineated on flood hazard maps identified in Table R301.2 or otherwise delineated by the *jurisdiction*.

4.If design flood elevations are not included on the community's Flood Insurance Rate Map (FIRM), the *building official* and the applicant shall obtain and reasonably utilize any design flood elevation and floodway data available from other sources.

**107.2.2.5 Information on storm shelters.**

*Construction documents* for *storm shelters* shall include the information required in ICC 500.

**107.2.2.6 Site plan or plot plan.**

The *construction documents* submitted with the application for *permit* shall be accompanied by a site plan showing the size and location of new construction and existing structures on the site and distances from *lot lines*. In the case of

demolition, the site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site or plot. The *building official* is authorized to waive or modify the requirement for a site plan where the application for *permit* is for *alteration* or *repair* or where otherwise warranted.

**107.2.3 International Mechanical Code.**

**107.2.3.1 Construction documents.**

*Construction documents*, engineering calculations, diagrams and other such data shall be submitted in two or more sets, or in a digital format where allowed by the *building official*, with each application for a permit. The *building official* shall require *construction documents*, computations and specifications to be prepared and designed by a *registered design professional* where required by state law. *Construction documents* shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code. *Construction documents* for buildings more than two stories in height shall indicate where penetrations will be made for pipes, fittings and components and shall indicate the materials and methods for maintaining required structural safety, fire-resistance rating and fireblocking.

**Exception:** The *building official* shall have the authority to waive the submission of *construction documents*, calculations or other data if the nature of the work applied for is such that the reviewing of *construction documents* is not necessary to determine compliance with this code.

**107.2.4 International Plumbing Code.**

**107.2.4.1 Construction documents.**

*Construction documents*, engineering calculations, diagrams and other such data shall be submitted in two or more sets, or in a digital format where allowed by the *building official*, with each application for a permit. The *building official* shall require *construction documents*, computations and specifications to be prepared and designed by a *registered design professional* where required by state law. *Construction documents* shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code. *Construction documents* for buildings more than two stories in height shall indicate where penetrations will be made for pipes, fittings and components and shall indicate the materials and methods for maintaining required structural safety, fire-resistance rating and fireblocking.

**Exception:** The *building official* shall have the authority to waive the submission of *construction documents*, calculations or other data if the nature of the work applied for is such that the reviewing of *construction documents* is not necessary to determine compliance with this code.

**107.2.5 International Energy Conservation Code.**

**107.2.5.1 Information on construction documents.**

*Construction documents* shall be drawn to scale on suitable material. Electronic media documents are permitted to be submitted where *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, the following as applicable:

**107.2.5.1.1 Commercial (CE):**

1. Insulation materials and their *R*-values.

2. Fenestration *U*-factors and solar heat gain coefficients(SHGCs).

3. Area-weighted *U*-factor and solar heat gain coefficient (SHGC) calculations.

4. Mechanical system design criteria.

5. Mechanical and service water heating systems and equipment types, sizes and efficiencies.

6. Economizer description.

7. Equipment and system controls.

8. Fan motor horsepower (hp) and controls.

9. Duct sealing, duct and pipe insulation and location.

10. Lighting fixture schedule with wattage and control narrative.

11. Location of *daylight* zones on floor plans.

12. Air sealing details.

**107.2.5.1.1.1 Building documentation and closeout submittal requirements.**

The construction documents shall specify that the documents described in this section be provided to the building owner or owner's authorized agent within 90 days of the date of receipt of the certificate of occupancy.

**107.2.5.1.1.2 Record documents.**

Construction documents shall be updated to convey a record of the completed work. Such updates shall include mechanical, electrical and control drawings that indicate all changes to size, type and location of components, equipment and assemblies.

**107.2.5.1.1.3 Compliance documentation.**

Energy code compliance documentation and supporting calculations shall be delivered in one document to the building owner as part of the project record documents or manuals, or as a standalone document. This document shall include the specific energy code edition utilized for compliance determination for each system, documentation demonstrating compliance with Section C303.1.3 for each fenestration product installed, and the interior lighting power compliance path, building area or space-by-space, used to calculate the lighting power allowance.

For projects complying with Item 2 of Section C401.2,the documentation shall include:

1.The envelope insulation compliance path.

2.All compliance calculations including those required by Sections C402.1.5, C403.8.1, C405.3 and C405.4.

For projects complying with Section C407, the documentation shall include that required by Sections C407.4.1 and C407.4.2.

**107.2.5.1.1.4 Systems operation control.**

Training shall be provided to those responsible for maintaining and operating equipment included in the manuals required by Section 107.2.5.1.1.3.

The training shall include:

1.Review of manuals and permanent certificate.

2.Hands-on demonstration of all normal maintenance procedures, normal operating modes, and all emergency shutdown and startup procedures.

3.Training completion report.

**107.2.5.1.2 Residential (RE):**

1. Insulation materials and their *R*-values.
2. Fenestration *U*-factors and *solar heat gain coefficients* (SHGC).
3. Area-weighted *U*-factor and *solar heat gain coefficients* (SHGC) calculations.
4. Mechanical system design criteria.
5. Mechanical and service water-heating systems and equipment types, sizes and efficiencies.
6. Equipment and system controls.
7. Duct sealing, duct and pipe insulation and location.
8. Air sealing details.

**107.2.5.2 Building thermal envelope depiction (CE) & (RE).**

The *building thermal envelope* shall be represented on the *construction documents*.

**107.2.6 International Existing Building Code.**

**106.2.6.1 Construction documents.**

*Construction documents* shall be dimensioned and drawn on suitable material. Electronic media documents are permitted to be submitted where *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 detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*. The *work areas* shall be shown.

**107.2.6.2 Fire protection system(s) shop drawings.**

Shop drawings for the fire protection system(s) shall be submitted to indicate compliance with this code and the construction documents and shall be *approved* prior to the start of system installation. Shop drawings shall contain information as required by the referenced installation standards in Chapter 9 of the *International Building Code*.

**107.2.6.3 Means of egress.**

The *construction documents* for *Alterations*—Level 2, *Alterations*—Level 3, *additions* and *changes of occupancy* shall show in sufficient detail the location, construction, size and character of all portions of the means of egress in compliance with the provisions of this code. The *construction documents* shall designate the number of occupants to be accommodated in every *work area* of every floor and in all affected rooms and spaces.

**107.2.6.4 Exterior wall envelope.**

*Construction documents* for work affecting the *exterior wall envelope* shall describe the *exterior wall envelope* in sufficient detail to determine compliance with this code. The *construction documents* shall provide details of the *exterior wall envelope* as required, including windows, doors, flashing, intersections with dissimilar materials, corners, end details, control joints, intersections at roof, eaves or parapets, means of drainage, water-resistive barriers and details around openings.

The *construction documents* shall include manufacturer's installation instructions that provide supporting documentation that the proposed penetration and opening details described in the construction documents maintain the wind and weather resistance of the *exterior wall envelope*. The supporting documentation shall fully describe the exterior wall system that was tested, where applicable, as well as the test procedure used.

**107.2.6.5 Exterior balconies and elevated walking surfaces.**

Where the scope of work involves balconies or other elevated walking surfaces have weather-exposed surfaces, and the structural framing is protected by an impervious moisture barrier, the *construction documents* shall include details for all elements of the impervious moisture barrier system. The construction documents shall include manufacturer's installation instructions.

**107.2.6.6 Site plan.**

The *construction documents* submitted with the application for permit shall be accompanied by a site plan showing to scale the size and location of new construction and *existing structures* on the site, distances from lot lines, the established street grades, and the proposed finished grades; and it shall be drawn in accordance with an accurate boundary line survey. In the case of demolition, the site plan shall show construction to be demolished and the location and size of *existing structures* and construction that are to remain on the site or plot. The *building official* is authorized to waive or modify the requirement for a site plan where the application for permit is for *alteration*, *repair* or *change of occupancy*.

**107.2.7 International Swimming Pool and Spa Code.**

**107.2.7.1** *Construction documents,* engineering calculations, diagrams and other such data shall be submitted in two or more sets with each application for a permit. The *building official* shall require *construction documents*, computations and specifications to be prepared and designed by a *registered design professional* where required by state law. *Construction documents* shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code.

**107.2.8 National Electrical Code (NFPA 70).**

**107.2.8.1** Comply with Article 90.

**107.3 Examination of documents.**

The *building official* shall examine or cause to be examined the accompanying submittal documents and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this code and other pertinent laws or ordinances.

**107.3.1 Approval of construction documents.**

When the *building official* issues a *permit*, the *construction documents* shall be *approved*, in writing or by stamp, as "Reviewed for Code Compliance." One set of *construction documents* so reviewed shall be retained by the *building official*. The other set shall be returned to the applicant, shall be kept at the *site* of work and shall be open to inspection by the *building official* or a duly authorized representative.

**107.3.2 Previous approvals.**

This code shall not require changes in the *construction documents*, construction or designated occupancy of a *structure* for which a lawful *permit* has been heretofore issued or otherwise lawfully authorized, and the construction of which has been pursued in good faith within 180 days after the

**107.3.3 Phased approval.**

The *building official* is authorized to issue a *permit* for the construction of foundations or any other part of a *building* or *structure* before the *construction documents* for the whole *building* or *structure* have been submitted, provided that adequate information and detailed statements have been filed complying with pertinent requirements of this code. The holder of such *permit* for the foundation or other parts of a *building* or *structure* shall proceed at the holder's own risk with the building operation and without assurance that a *permit* for the entire *structure* will be granted.

**107.3.4 Design professional in responsible charge.**

Where it is required that documents be prepared by a *registered design professional*, the *building official* shall be authorized to require the *owner* or the *owner*'s authorized agent to engage and designate on the *building permit* application a *registered design professional* who shall act as the *registered design professional in responsible charge*. If the circumstances require, the *owner* or the *owner*'s authorized agent shall designate a substitute *registered design professional in responsible charge* who shall perform the duties required of the original *registered design professional in responsible charge*. The *building official* shall be notified in writing by the *owner* or the *owner*'s authorized agent if the *registered design professional in responsible charge* is changed or is unable to continue to perform the duties.

The *registered design professional in responsible charge* shall be responsible for reviewing and coordinating submittal documents prepared by others, including phased and *deferred submittal* items, for compatibility with the design of the building.

**107.3.4.1 Deferred submittals.**

Deferral of any submittal items shall have the prior approval of the *building official*. The *registered design professional in responsible charge* shall list the *deferred submittals* on the *construction documents* for review by the *building official*.

Documents for *deferred submittal* items shall be submitted to the *registered design professional in responsible charge* who shall review them and forward them to the *building official* with a notation indicating that the *deferred submittal* documents have been reviewed and found to be in general conformance to the design of the building.

The *deferred submittal* items shall not be installed until the *deferred submittal* documents have been *approved* by the *building official*.

**107.4 Amended construction documents.**

Work shall be installed in accordance with the *approved construction documents*, and any changes made during construction that are not in compliance with the *approved construction documents* shall be resubmitted for approval as an amended set of *construction documents*.

**107.5 Retention of construction documents.**

One set of *approved construction documents* shall be retained by the *building official* for a period of not less than 180 days from date of completion of the permitted work, or as required by RSA 33-A:3 or local laws whichever is greater.

**SECTION 108 TEMPORARY STRUCTURES, EQUIPMENT AND SYSTEMS**

**108.1 General.**

The *building official* is authorized to issue a *permit* for temporary *structures*, equipment or systems. Such *permit*s shall be limited as to time of service, but shall not be permitted for more than 180 days. The *building official* is authorized to grant extensions for demonstrated cause. Structures designed to comply with Section 3103.6 of the *International Building Code* shall not be in service for a period of more than 1 year unless an extension of time is granted.

**108.2 Conformance.**

*Temporary structures* and uses shall comply with the structural strength, fire safety, means of egress, light, *ventilation*, and sanitary requirements of this code as necessary to ensure the public health, safety and general welfare.

Temporary structures complying with the *International Building Code* shall comply with the requirements in Section 3103.

Temporary structures complying with the *International Residential Code* shall not be permitted for more than 180 days. The *building official* is authorized to grant extensions for demonstrated cause.

**108.3 Temporary service utilities.**

The *building official* is authorized to give permission to temporarily supply service utilities in accordance with Section 112.

**108.4 Termination of approval.**

The *building official* is authorized to terminate such *permit* for a *temporary structure*, equipment or system and to order the same to be discontinued.

**SECTION 109 FEES**

**109.1 Payment of fees.**

A *permit* shall not be valid until the fees prescribed by law have been paid, nor shall an amendment to a *permit* be released until the additional fee, if any, has been paid.

**109.2 Schedule of permit fees.**

Where a *permit* is required, a fee for each *permit* shall be paid as required, in accordance with the schedule as established by the applicable governing authority which is expressly reserved for counties, towns, cities, and village districts where such activities have been authorized in accordance with RSA 155-A:3.

**Exception.** Pursuant to the state fire marshal's authority to enforce the *State Building Code* under RSA 155-A:7, I, the fire marshal may establish for municipalities that do not have a building inspector or other enforcement mechanism authorized in RSA 155-A:4, with approval of the Commissioner of Safety and by rules adopted under RSA 541-A, fees to defray the cost of issuing building permits in accordance with the *State Building Code*.

**109.3 Permit valuations.**

The applicant for a *permit* shall provide an estimated value of the work for which the *permit* is being issued at time of application. Such estimated valuations shall include the total value of work, including materials and labor, for which the *permit* is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. Where, in the opinion of the *building official*, the valuation is underestimated, the *permit* shall be denied, unless the applicant can show detailed estimates acceptable to the *building official*. The building official shall have the authority to adjust the final valuation for permit fees.

**109.4 Work commencing before permit issuance.**

Any *person* who commences any work before obtaining the necessary *permit*s shall be subject to a fee established by the *building official* that shall be in addition to the required *permit* fees.

**109.5 Related fees.**

The payment of the fee for the construction, *alteration*, removal or demolition for work done in connection to or concurrently with the work authorized by a building *permit* shall not relieve the applicant or holder of the *permit* from the payment of other fees that are prescribed by law.

**109.6 Refunds.**

The *building official* is authorized to establish a refund policy.

**SECTION 110 INSPECTIONS**

**110.1 General.**

Construction or work for which a *permit* is required shall be subject to inspection by the *building official* and such construction or work shall remain visible and able to be accessed for inspection purposes until *approved*. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the *jurisdiction*. Inspections presuming to give authority to violate or cancel the provisions of this code or of other ordinances of the *jurisdiction* shall not be valid. It shall be the duty of the *owner* or the *owner*'s authorized agent to cause the work to remain visible and able to be accessed for inspection purposes. Neither the *building official* nor the *jurisdiction* shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

**110.2 Preliminary inspection.**

Before issuing a *permit*, the *building official* is authorized to examine or cause to be examined *buildings*, *structures* and *sites* for which an application has been filed.

**110.3 Required inspections.**

The *building official*, upon notification, shall make the inspections set forth in Sections 110.3.1 through 110.3.8, as applicable, to ensure compliance with the requirements of this code : **Exceptions:**

1. The state fire marshal shall conduct inspections for buildings owned by the state, the community college system of New Hampshire, and the university system per RSA 155-A:2, IV.

2. Third party inspections in accordance with Section 104-A.

**110.3.1 International Building Code.**

**110.3.1.1 Required inspections**

**110.3.1.1.1 Footing and foundation inspection.**

Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready mixed in accordance with ASTM C94, the concrete need not be on the job.

**110.3.1.1.2 Concrete slab and under-floor inspection.**

Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.

**110.3.1.1.3 Lowest floor elevation.**

In *flood hazard areas*, upon placement of the *lowest floor*, including the *basement*, and prior to further vertical construction, the elevation certification required in Section 1612.4 or the *International Residential Code*, as applicable, shall be submitted to the *building official*.

**110.3.1.1.4 Frame inspection.**

Framing inspections shall be made after the *roof deck* or sheathing, all framing, *fire-blocking* and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are *approved*.

**110.3.1.1.5 Types IV-A, IV-B and IV-C connection protection inspection.**

In *buildings* of Types IV-A, IV-B and IV-C construction, where connection *fire-resistance ratings* are provided by wood cover calculated to meet the requirements of Section 2304.10.1, inspection of the wood cover shall be made after the cover is installed, but before any other coverings or finishes are installed.

**110.3.1.1.6 Lath and gypsum panel product inspection.**

Lath and *gypsum panel product* inspections shall be made after lathing and *gypsum panel products*, interior and exterior, are in place, but before any plastering is applied or *gypsum panel product* joints and fasteners are taped and finished.

**Exception:** *Gypsum panel products* that are not part of a fire-resistance-rated assembly or a shear assembly.

**110.3.1.1.7 Weather-exposed balcony and walking surface waterproofing.**

Where balconies or other elevated walking surfaces have *weather-exposed surfaces*, and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and *approved*.

**Exception:** Where *special inspections* are provided in accordance with Section 1705.1.1, Item 3.

**110.3.1.1.8 Fire- and smoke-resistant penetrations.**

Protection of *joints* and penetrations in fire-resistance-rated assemblies, *smoke barriers* and *smoke partitions* shall not be concealed from view until inspected and *approved*.

**110.3.1.1.9 Energy efficiency inspections.**

Inspections shall be made to determine compliance with Chapter 13 and shall include, but not be limited to, inspections for: envelope insulation *R*- and *U*-values, *fenestration U*-value, duct system *R*-value, and HVAC and water-heating equipment efficiency.

**110.3.1.1.10 Other inspections.**

In addition to the inspections specified in Sections 110.3.1.1 through 110.3.1.9, the *building official* is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the local enforcement agency.

**110.3.1.1.11 Special inspections.**

For *special inspections*, see Chapter 17.

**110.3.1.1.12 Final inspection.**

The final inspection shall be made after all work required by the building *permit* is completed.

**110.3.1.1.12.1 Flood hazard documentation.**

If located in a *flood hazard area*, documentation of the elevation of the *lowest floor* or the elevation of dry floodproofing, if applicable, as required in Section 1612.4 shall be submitted to the *building official* prior to the final inspection.

**110.3.2 International Residential Code.**

**110.3.2.1 Types of inspections.**

For on-site construction, from time to time the *building official*, upon notification from the *permit* holder or his agent, shall make or cause to be made any necessary inspections and shall either approve that portion of the construction as completed or shall notify the *permit* holder or his or her agent wherein the same fails to comply with this code.

**110.3.2.1.1 Foundation inspection.**

Inspection of the foundation shall be made after poles or piers are set or trenches or *basement* areas are excavated and any required forms erected and any required reinforcing steel is in place and supported prior to the placing of

concrete. The foundation inspection shall include excavations for thickened slabs intended for the support of bearing walls, partitions, structural supports, or equipment and special requirements for wood foundations.

**110.3.2.1.2 Plumbing, mechanical, gas and electrical systems inspection.**

Rough inspection of plumbing, mechanical, gas and electrical systems shall be made prior to covering or concealment, before fixtures or *appliances* are set or installed, and prior to framing inspection.

**Exception:** Backfilling of ground-source heat pump loop systems tested in accordance with Section M2105.28 prior to inspection shall be permitted.

**110.3.2.1.3 Floodplain inspections.**

For construction in flood hazard areas as established by Table R301.2, upon placement of the lowest floor, including *basement*, and prior to further vertical construction, the *building official* shall require submission of documentation, prepared and sealed by a *registered design professional*, of the elevation of the lowest floor, including *basement*, required in Section R306.

**110.3.2.1.4 Frame and masonry inspection.**

Inspection of framing and masonry construction shall be made after the roof, masonry, framing, firestopping, draftstopping and bracing are in place and after the plumbing, mechanical and electrical rough inspections are *approved*.

**110.3.2.1.5 Other inspections.**

In addition to inspections in Sections 110.3.2.1 through 110.3.2.5, the *building official* shall have the authority to make or require any other inspections to ascertain compliance with this code and other laws enforced by the *building official*.

**110.3.2.1.5.1 Fire-resistance-rated construction inspection.**

Where fire-resistance-rated construction is required between *dwelling units* or due to location on property, the *building official* shall require an inspection of such construction after lathing or *gypsum panel products* are in place, but before any plaster is applied, or before panel joints and fasteners are taped and finished.

**110.3.2.1.6 Final inspection.**

Final inspection shall be made after the permitted work is complete and prior to occupancy.

**110.3.2.1.6.1 Elevation documentation.**

If located in a flood hazard area, the documentation of elevations required in Section R306.1.10 shall be submitted to the *building official* prior to the final inspection.

**110.3.3 International Mechanical Code.**

**110.3.3.1 Required inspections and testing.**

1. Underground inspection shall be made after trenches or ditches are excavated and bedded, piping installed, and before backfill is put in place. Where excavated soil contains rocks, broken concrete, frozen chunks and other rubble that would damage or break the piping or cause corrosive action, clean backfill shall be on the job site.

2. Rough-in inspection shall be made after the roof, framing, fireblocking and bracing are in place and all ducting and other components to be concealed are complete, and prior to the installation of wall or ceiling membranes.

3. Final inspection shall be made upon completion of the mechanical system.

**Exception:** Ground-source heat pump loop systems tested in accordance with Section 1210.10 shall be permitted to be backfilled prior to inspection.

The requirements of this section shall not be considered to prohibit the operation of any heating *equipment* or *appliances* installed to replace existing heating *equipment* or *appliances* serving an occupied portion of a structure provided that a request for inspection of such heating *equipment* or *appliances* has been filed with the department not more than 48 hours after such replacement work is completed, and before any portion of such *equipment* or *appliances* is concealed by any permanent portion of the structure.

**110.3.3.2 Other inspections.**

In addition to the inspections specified in Section 110.3.3.1, the *building official* is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced.

**110.3.3.3 Evaluation and follow-up inspection services.**

Prior to the approval of a prefabricated construction assembly having concealed mechanical work and the issuance of a mechanical permit, the *building official* shall require the submittal of an evaluation report on each prefabricated construction assembly, indicating the complete details of the mechanical system, including a description of the system and its components, the basis on which the system is being evaluated, test results and similar information, and other data as necessary for the *building official* to determine conformance to this code.

**110.3.3.3.1 Evaluation service.**

The *building official* shall designate the evaluation service of an *approved* agency as the evaluation agency, and review such agency's evaluation report for adequacy and conformance to this code.

**110.3.3.3.2 Follow-up inspection.**

Except where *ready access* is provided to mechanical systems, service *equipment* and accessories for complete inspection at the site without disassembly or dismantling, the *building official* shall conduct the in-plant inspections as frequently as necessary to ensure conformance to the *approved* evaluation report or shall designate an independent, *approved* inspection agency to conduct such inspections. The inspection agency shall furnish the *building official* with the follow-up inspection manual and a report of inspections on request, and the mechanical system shall have an identifying label permanently affixed to the system indicating that factory inspections have been performed.

**110.3.3.3 Test and inspection records.**

Required test and inspection records shall be available to the *building official* at all times during the fabrication of the mechanical system and the erection of the *building*; or such records as the *building official* designates shall be filed.

**110.3.3.4 Testing.**

Mechanical systems shall be tested as required in this code and in accordance with Sections 110.3.3.4.1 through 110.3.3.4.3. Tests shall be made by the permit holder and observed by the *building official*.

**110.3.3.4.1 New, altered, extended or repaired systems.**

New mechanical systems and parts of existing systems, which have been altered, extended, renovated or repaired, shall be tested as prescribed herein to disclose leaks and defects.

**110.3.3.4.2 Apparatus, material and labor for tests.**

Apparatus, material and labor required for testing a mechanical system or part thereof shall be furnished by the permit holder.

**110.3.3.4.3 Reinspection and testing.**

Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made so as to achieve compliance with this code. The work or installation shall then be resubmitted to the *building official* for inspection and testing.

**110.3.4 International Plumbing Code.**

**110.3.4.1 Required inspections and testing.**

1. Underground inspection shall be made after trenches or ditches are excavated and bedded, piping installed, and before any backfill is put in place.

2. Rough-in inspection shall be made after the roof, framing, fireblocking, firestopping, draftstopping and bracing is in place and all sanitary, storm and water distribution piping is roughed-in, and prior to the installation of wall or ceiling membranes.

3. Final inspection shall be made after the building is complete, all plumbing fixtures are in place and properly connected, and the structure is ready for occupancy.

**110.3.4.2 Other inspections.**

In addition to the inspections specified in Section 110.3.4.1, the *building official* shall be authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced.

**110.3.4.3 Approved agencies.**

The *building official* is authorized to accept reports of *approved* inspection agencies, provided that such agencies satisfy the requirements as to qualifications and reliability.

**110.3.4.4 Evaluation and follow-up inspection services.**

Prior to the approval of a closed, prefabricated plumbing system and the issuance of a plumbing permit, the code official shall require the submittal of an evaluation report on each prefabricated plumbing system indicating the complete details of the plumbing system, including a description of the system and its components, the basis on which the

plumbing system is being evaluated, test results and similar information, and other data as necessary for the *building official* to determine conformance to this code.

**110.3.4.4.1 Evaluation service.**

The *building official* shall designate the evaluation service of an *approved agency* as the evaluation agency, and review such agency's evaluation report for adequacy and conformance to this code.

**110.3.4.4.2 Follow-up inspection.**

Except where *ready access* is provided to all plumbing systems, service equipment and accessories for complete inspection at the site without disassembly or dismantling, the *building official* shall conduct the frequency of in-plant inspections necessary to ensure conformance to the *approved* evaluation report or shall designate an independent, *approved* inspection agency to conduct such inspections. The inspection agency shall furnish the *building official* with the follow-up inspection manual and a report of inspections on request, and the plumbing system shall have an identifying label permanently affixed to the system indicating that factory inspections have been performed.

**110.3.4.4.3 Test and inspection records.**

Required test and inspection records shall be available to the code official at all times during the fabrication of the plumbing system and the erection of the building, or such records as the *building official* designates shall be filed.

**110.3.4.5 Special inspections.**

Special inspections of *alternative engineered design* plumbing systems shall be conducted in accordance with Sections 110.3.4.5.1 and 110.3.4.5..2.

**110.3.4.5.1 Periodic inspection.**

The *registered design professional* or designated inspector shall periodically inspect and observe the *alternative engineered design* to determine that the installation is in accordance with the *approved* construction documents. Discrepancies shall be brought to the immediate attention of the plumbing contractor for correction. Records shall be kept of all inspections.

**110.3.4.5.2 Written report.**

The *registered design professional* shall submit a final report in writing to the *building official* upon completion of the installation, certifying that the *alternative engineered design* conforms to the *approved* construction documents. A notice of approval for the plumbing system shall not be issued until a written certification has been submitted.

**110.3.4.6 Testing.**

Plumbing work and systems shall be tested as required in Section 312 and in accordance with Sections 110.3.4.6.1 through 110.3.4.6.3. Tests shall be made by the permit holder and observed by the *building official*.

**110.3.4.6.1 New, altered, extended or repaired systems.**

New plumbing systems and parts of existing systems that have been altered, extended or repaired shall be tested as prescribed herein to disclose leaks and defects, except that testing is not required in the following cases:

1.In any case that does not include addition to, replacement, alteration or relocation of any water supply, drainage or vent piping.

2.In any case where plumbing equipment is set up temporarily for exhibition purposes.

**110.3.4.6.2 Equipment, material and labor for tests.**

Equipment, material and labor required for testing a plumbing system or part thereof shall be furnished by the permit holder.

**110.3.4.6.3 Reinspection and testing.**

Where any work or installation does not pass any initial test or inspection, the necessary corrections shall be made to comply with this code. The work or installation shall then be resubmitted to the *building official* for inspection and testing.

**110.3.5 International Energy Conservation Code.**

**110.3.5.2 Required inspections (CE).**

**110.3.5.2.1 Footing and foundation insulation.**

Inspections shall verify the footing and foundation insulation *R*-value, location, thickness, depth of burial and protection of insulation as required by the code, *approved* plans and specifications.

**110.3.5.2.2 Thermal envelope.**

Inspections shall verify the correct type of insulation, *R*-values, location of insulation, fenestration, *U*-factor, SHGC and VT, and that air leakage controls are properly installed, as required by the code, *approved* plans and specifications.

**110.3.5.2.3 Plumbing system.**

Inspections shall verify the type of insulation, *R*-values, protection required, controls and heat traps as required by the code, *approved* plans and specifications.

**110.3.5.2.4 Mechanical system.**

Inspections shall verify the installed HVAC equipment for the correct type and size, controls, insulation, R-values, system and damper air leakage, minimum fan efficiency, energy recovery and economizer as required by the code, *approved* plans and specifications.

**110.3.5.2.5 Electrical system.**

Inspections shall verify lighting system controls, components, and meters as required by the code, *approved* plans and specifications.

**110.3.5.2.6 Final inspection.**

The final inspection shall include verification of the installation and proper operation of all required building controls, and documentation verifying activities associated with required *building commissioning* have been conducted in accordance with Section C408.

**110.3.5.3 Reinspection (CE).**

A building shall be reinspected where determined necessary by the *building official*.

**110.3.5.4 Required inspections (RE).**

**110.3.5.4.1 Footing and foundation inspection.**

Inspections associated with footings and foundations shall verify compliance with the code as to R-value, location, thickness, depth of burial and protection of insulation as required by the code and approved plans and specifications.

**110.3.5.4.2 Framing and rough-in inspection.**

Inspections at framing and rough-in shall be made before application of interior finish and shall verify compliance with the code as to: types of insulation and corresponding *R-values* and their correct location and proper installation; fenestration properties such as *U*-factor and SHGC and proper installation; and air leakage controls as required by the code; and approved plans and specifications.

**110.3.5.4.3 Plumbing rough-in inspection.**

Inspections at plumbing rough-in shall verify compliance as required by the code and *approved* plans and specifications as to types of insulation and corresponding *R*-values and protection, and required controls.

**110.3.5.4.4 Mechanical rough-in inspection.**

Inspections at mechanical rough-in shall verify compliance as required by the code and *approved* plans and specifications as to installed HVAC equipment type and size, required controls, system insulation and corresponding *R*-value, system air leakage control, programmable thermostats, dampers, whole-house ventilation, and minimum fan efficiency.

**Exception:** Systems serving multiple dwelling units shall be inspected in accordance with Section 110.3.5.5.4.

**110.3.5.4.5 Final inspection.**

The *building* shall have a final inspection and shall not be occupied until *approved*. The final inspection shall include verification of the installation of all required *building* systems, equipment and controls and their proper operation and the required number of high-efficacy lamps and fixtures.

**110.3.5.5 Reinspection (RE).**

A *building* shall be reinspected where determined necessary by the *building official*.

**110.3.6 International Existing Building Code.**

**110.3.6.1 Required inspections.**

**110.3.6.1.1 Footing or foundation inspection.**

Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready-mixed in accordance with ASTM C94, the concrete need not be on the job.

**110.3.6.1.2 Concrete slab or under-floor inspection.**

Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place but before any concrete is placed or floor sheathing installed, including the subfloor.

**110.3.6.1.3 Lowest floor elevation.**

For *additions* and *substantial improvements* to *existing buildings* in *flood hazard areas*, on placement of the *lowest floor*, including basement, and prior to further vertical construction, the elevation documentation required in the *International Building Code*, or the *International Residential Code*, as applicable, shall be submitted to the *building official*.

**110.3.6.1.4 Frame inspection.**

Framing inspections shall be made after the roof deck or sheathing, framing, fire blocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are *approved*.

**110.3.6.1.5 Lath or gypsum panel product inspection.**

Lath and gypsum panel inspections shall be made after lathing and gypsum panel products, interior and exterior, are in place but before any plastering is applied or before gypsum panel product joints and fasteners are taped and finished.

**Exception:** Gypsum panels that are not part of a fire-resistance-rated assembly or a shear assembly.

**110.3.6.1.6 Weather-exposed balcony and walking surface waterproofing.**

Where the scope of work involves balconies or other elevated walking surfaces that have weather-exposed surfaces and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and *approved*.

**Exception:** Where special inspections are provided in accordance with Section 1705.1.1, Item 3, of the *International Building Code*.

**110.3.6.1.7 Fire- and smoke-resistant penetrations.**

Protection of joints and penetrations in fire-resistance-rated assemblies, smoke barriers and smoke partitions shall not be concealed from view until inspected and *approved*.

**110.3.6.1.8 Other inspections.**

In addition to the inspections specified in Sections 110.3.6.2 through 110.3.6.3.7, the *building official* is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the department of building safety.

**110.3.6.1.9 Special inspections.**

Special inspections shall be required in accordance with the *International Building Code*.

**110.3.6.1.10 Flood hazard documentation.**

Where a building is located in a *flood hazard area*, documentation of the elevation of the *lowest floor* or the elevation of dry floodproofing, if applicable, as required in the *International Building Code* or the *International Residential Code*, as applicable, shall be submitted to the *code official* prior to the final inspection.

**110.3.6.1.11 Final inspection.**

The final inspection shall be made after work required by the building permit is completed.

**110.3.7 International Swimming Pool and Spa Code.**

**110.3.7.1 Required inspections and testing.**

Pool and spa installations or *alterations* thereto, including equipment, piping, and appliances related thereto, shall be inspected by the *building official* to ensure compliance with the requirements of this code.

**110.3.7.2 Other inspections.**

In addition to the inspections specified in Section 110.3.7.1, the *building official* is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced.

**110.3.7.3 Approved agencies.**

Test reports submitted to the *building official* for consideration shall be developed by *approved* agencies that have satisfied the requirements as to qualifications and reliability.

**110.3.7.4 Evaluation and follow-up inspection services.**

Prior to the approval of a closed, prefabricated system and the issuance of a permit, the *building official* shall require the submittal of an evaluation report on each prefabricated system indicating the complete details of the system, including a description of the system and its components, the basis on which the system is being evaluated, test results and similar information, and other data as necessary for the *building official* to determine conformance to this code.

**110.3.7.5 Evaluation service.**

The *building official* shall designate the evaluation service of an *approved* agency as the evaluation agency, and review such agency's evaluation report for adequacy and conformance to this code.

**110.3.7.6 Follow-up inspection.**

Except where ready access is provided to systems, service equipment and accessories for complete inspection at the site without disassembly or dismantling, the *building official* shall conduct the frequency of in-plant inspections necessary to ensure conformance to the *approved* evaluation report or shall designate an independent, *approved* inspection agency to conduct such inspections. The inspection agency shall furnish the *building official* with the follow-up inspection manual and a report of inspections on request, and the system shall have an identifying label permanently affixed to the system indicating that factory inspections have been performed.

**110.3.7.7 Test and inspection records.**

Required test and inspection records shall be available to the *building official* at all times during the fabrication of the system and the installation of the system, or such records as the *building official* designates shall be filed.

**110.3.7.8 Special inspections.**

Special inspections of alternative engineered design systems shall be conducted in accordance with Sections 110.3.7.8.1 and 110.3.7.8.2.

**110.3.7.8.1 Periodic inspection.**

The *registered design professional* or designated inspector shall periodically inspect and observe the alternative engineered design to determine that the installation is in accordance with the *approved* construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. Records shall be kept of inspections.

**110.3.7.8.2 Written report.**

The *registered design professional* shall submit a final report in writing to the *building official* upon completion of the installation, certifying that the alternative engineered design conforms to the *approved* construction documents. A notice of approval for the system shall not be issued until a written certification has been submitted.

**110.3.7.9 Testing.**

Systems shall be tested as required by this code. Tests shall be made by the permit holder and the *building official* shall have the authority to witness such tests.

**110.3.7.10 New, altered, extended or repaired systems.**

New systems and parts of existing systems that have been altered, extended or repaired shall be tested as prescribed by this code.

**110.3.7.11 Equipment, material and labor for tests.**

Equipment, material and labor required for testing a system or part thereof shall be furnished by the permit holder.

**110.3.7.12 Reinspection and testing.**

Where any work or installation does not pass any initial test or inspection, the necessary corrections shall be made to comply with this code. The work or installation shall then be resubmitted to the *building official* for inspection and testing.

**110.3.8 National Electrical Code (NFPA 70).**

**110.3.8.1** Comply with Article 90.

**110.4 Inspection agencies.**

The *building official* is authorized to accept reports of *approved* inspection agencies, provided that such agencies satisfy the requirements as to qualifications and reliability.

**Exception.** Third party inspections in accordance with by Section 104-A.

**110.5 Inspection requests.**

It shall be the duty of the holder of the building *permit* or their duly authorized agent to notify the *building official* when work is ready for inspection. It shall be the duty of the *permit* holder to provide access to and means for inspections of such work that are required by this code.

**110.6 Approval required.**

Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the *building official*. The *building official*, upon notification, shall make the requested inspections and shall either indicate the portion of the construction that is satisfactory as completed, or notify the *permit* holder or the *permit* holder's agent wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the *building official*.

## SECTION 111 CERTIFICATE OF OCCUPANCY

**111.1 Change of occupancy.**

A *building* or *structure* shall not be used or occupied in whole or in part, and a *change of occupancy* of a *building* or *structure* or portion thereof shall not be made, until the *building official* has issued a certificate of occupancy therefor as provided herein per RSA 155-A:3. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the *jurisdiction*. Certificates presuming to give authority to violate or cancel the provisions of this code or other ordinances of the *jurisdiction* shall not be valid.

**Exceptions:**

1. Certificates of occupancy are not required for work exempt from *permits* in accordance with Section 105.2.

2. Accessory *buildings* or structures complying with the *International Residential Code*.

3. The state fire marshal shall issue certificates of occupancy for buildings owned by the state, the community college system of New Hampshire, and the university system per RSA 155-A:2, IV.

**111.2 Certificate issued.**

After the *building official* inspects the building or *structure* and does not find violations of the provisions of this code or other laws that are enforced by the department, the *building official* shall issue a certificate of occupancy that contains the following, as applicable:

1. The *permit* number.
2. The address of the *structure*.
3. The name and address of the *owner* or the *owner*'s authorized agent.
4. A description of that portion of the *structure* for which the certificate is issued.

5. A statement that the described portion of the *structure* has been inspected for compliance with the requirements of this code.

6. The name of the *building official*.

7. The edition of the code under which the *permit* was issued.

8. The use and occupancy, in accordance with the provisions of this code.

9. The type of construction as defined in this code.

10. The design *occupant load*.

11. Where an *automatic sprinkler system* is provided, whether the sprinkler system is required.

12. Any special stipulations and conditions of the building *permit*.

**111.3 Temporary occupancy.**

The *building official* is authorized to issue a temporary certificate of occupancy before the completion of the entire work covered by the *permit*, provided that such portion or portions shall be occupied safely. The *building official* shall set a time period during which the temporary certificate of occupancy is valid.

**111.4 Revocation.**

The *building official* is authorized to suspend or revoke a certificate of occupancy or completion issued under the provisions of this code, in writing, wherever the certificate is issued in error, or on the basis of incorrect information supplied, or where it is determined that the building or *structure* or portion thereof is in violation of the provisions of this code or other ordinance of the *jurisdiction*.

## SECTION 112 SERVICE UTILITIES

**112.1 Connection of service utilities.**

A *person* shall not make connections from a utility, a source of energy, fuel, or power, or a water system or sewer system to any *building* or system that is regulated by this code for which a *permit* is required, until *approved* by the *building official*.

**112.2 Temporary connection.**

The *building official* shall have the authority to authorize the temporary connection of the building or system to the utility, the source of energy, fuel, or power, or the water system or sewer system for the purpose of testing systems or for use under a temporary approval.

**112.3 Authority to disconnect service utilities.**

The *building official* shall have the authority to authorize disconnection of utility service to the *building*, *structure* or system regulated by this code and the referenced codes and standards in case of emergency where necessary to eliminate an immediate hazard to life or property or where such utility connection has been made without the approval required by Section 112.1 or 112.2. The *building official* shall notify the serving utility, and wherever possible the *owner* or the *owner*'s authorized agent and occupant of the building, *structure* or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnecting, the *owner* or the *owner*'s authorized agent or occupant of the building, *structure* or service system shall be notified in writing, as soon as practical thereafter.

## SECTION 113 MEANS OF APPEALS

**113.1 General.**

In order to hear and decide appeals of orders, decisions or determinations made by the *building official* relative to the application and interpretation of this code, the local jurisdiction is permitted to create a board of appeals per RSA 155-A:3. The board of appeals shall be appointed by the applicable governing authority and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business and shall render all decisions and findings in writing to the appellant with a duplicate copy to the *building official*.

**113.1.1.** Should the local jurisdiction elect not to create a board of appeals, the Building Code Review Board shall hear appeals of orders, decisions, or determinations made by the local building official relative to the application and interpretation of the state building code and state fire code as defined in RSA 155-A:1 per RSA 155-A:11-b.

**113.2 Limitations on authority.**

An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equivalent or better form of construction is proposed. The board shall not have authority to waive requirements of this code.

**113.3 Qualifications.**

The board of appeals shall consist of members who are qualified by experience and training on matters pertaining to the provisions of this code and who are not employees of the *jurisdiction*.

**113.4 Administration.**

The *building official* shall take action without delay in accordance with the decision of the board.

## SECTION 114 VIOLATIONS

**114.1 Unlawful acts.**

It shall be unlawful for any *person*, firm or corporation to erect, construct, alter, extend, *repair*, move, remove, demolish or occupy any *building*, *structure* or equipment regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code.

**114.2 Notice of violation.**

The *building official* is authorized to serve a notice of violation or order on the *person* responsible for the erection, construction, *alteration*, extension, *repair*, moving, removal, demolition or occupancy of a building or *structure* in violation of the provisions of this code, or in violation of a *permit* or certificate issued under the provisions of this code. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation.

**114.3 Prosecution of violation.**

If the notice of violation is not complied with promptly, the *building official* is authorized to request the legal counsel of the *jurisdiction* to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation, or to require the removal or termination of the unlawful occupancy of the building or *structure* in violation of the provisions of this code or of the order or direction made pursuant thereto.

**114.4 Violation penalties.**

Any *person* who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or *repairs* a *building* or *structure* in violation of the *approved construction documents* or directive of the *building official*, or of a *permit* or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law.

## SECTION 115 STOP WORK ORDER

**115.1 Authority.**

Where the *building official* finds any work regulated by this code being performed in a manner contrary to the provisions of this code or in a dangerous or unsafe manner, the *building official* is authorized to issue a stop work order.

**115.2 Issuance.**

The stop work order shall be in writing and shall be given to the *owner* of the property, the *owner*'s authorized agent or the *person* performing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work is authorized to resume.

**115.3 Emergencies.**

Where an emergency exists, the *building official* shall not be required to give a written notice prior to stopping the work.

**115.4 Failure to comply.**

Any *person* who shall continue any work 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 fines established by the authority having *jurisdiction*.

## SECTION 116 UNSAFE STRUCTURES AND EQUIPMENT

**116.1 Unsafe conditions.**

*Structures* or existing equipment that are or hereafter become unsafe, insanitary or deficient because of inadequate *means of egress facilities*, inadequate light and *ventilation*, or that constitute a fire hazard, or are otherwise *dangerous* to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe *structures* shall be taken down and removed or made safe, as the *building official* deems necessary and as provided for in this section. A vacant *structure* that is not secured against unauthorized entry shall be deemed unsafe.

**116.2 Record.**

The *building official* shall cause a report to be filed on an unsafe condition. The report shall state the occupancy of the *structure* and the nature of the unsafe condition.

**116.3 Notice.**

If an unsafe condition is found, the *building official* shall serve on the *owner* of the *structure*, or the *owner*'s authorized agent, a written notice that describes the condition deemed unsafe and specifies the required *repairs* or improvements to be made to abate the unsafe condition, or that requires the unsafe *structure* to be demolished within a stipulated time. Such notice shall

require the *person* thus notified to declare immediately to the *building official* acceptance or rejection of the terms of the order.

**116.4 Method of service.**

Such notice shall be deemed properly served where a copy thereof is served in accordance with one of the following methods:

1. A copy is delivered to the *owner* personally.

2. A copy is sent by certified or registered mail addressed to the *owner* at the last known address with the return receipt requested.

3. A copy is delivered in any other manner as prescribed by local law.

If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the *structure* affected by such notice. Service of such notice in the foregoing manner on the *owner*'s authorized agent shall constitute service of notice on the *owner*.

**116.5 Restoration or abatement.**

Where the *structure* or equipment determined to be unsafe by the *building official* is restored to a safe condition, the *owner*, the *owner*'s authorized agent, operator or occupant of a *structure*, premises or equipment deemed unsafe by the *building official* shall abate or cause to be abated or corrected such unsafe conditions either by *repair*, rehabilitation, demolition or other *approved* corrective action. To the extent that *repairs*, *alterations* or *additions* are made or a *change of occupancy* occurs during the restoration of the *structure*, such *repairs*, *alterations*, *additions* and *change of occupancy* shall comply with the requirements of the *International Existing Building Code*.

## SECTION 117 EMERGENCY MEASURES

**117.1 Unsafe conditions.**

Structures or existing equipment that are or hereafter become *unsafe*, insanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or that constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an *unsafe* condition. *Unsafe* structures shall be taken down and removed or made safe as the *code official* deems necessary and as provided for in this code. A vacant structure that is not secured against unauthorized entry shall be deemed *unsafe*.

**117.2 Imminent danger.**

Where, in the opinion of the *building official*, there is imminent danger of failure or collapse of a building that endangers life, or where any building or part of a building has fallen and life is endangered by the occupation of the building, or where there is actual or potential danger to the building occupants or those in the proximity of any structure because of explosives, explosive fumes or vapors, or the presence of toxic fumes, gases, or materials, or operation of defective or dangerous equipment, the *building official* is hereby authorized and empowered to order and require the occupants to vacate the premises forthwith. It shall be unlawful for any person to enter such structure except for the purpose of securing the structure, making the required *repairs*, removing the hazardous condition, or of demolishing the same.

**Exception:** Buildings complying with the *International Residential Code*.

**117.3 Temporary safeguards.**

Notwithstanding other provisions of this code, whenever, in the opinion of the *building official*, there is imminent danger due to an *unsafe* condition, the *building official* shall order the necessary work to be done, including the boarding up of openings, to render such structure temporarily safe whether or not the legal procedure herein described has been instituted; and shall cause such other action to be taken as the *building official* deems necessary to meet such emergency.

**117.4 Closing streets.**

Where necessary for public safety, the *building official* shall temporarily close structures and close or order the authority having jurisdiction to close sidewalks, streets, public ways and places adjacent to *unsafe* structures, and prohibit the same from being utilized.

**117.5 Emergency repairs.**

For the purposes of this section, the *building official* shall employ the necessary labor and materials to perform the required work as expeditiously as possible.

**117.6 Costs of emergency repairs.**

Costs incurred in the performance of emergency work shall be paid by the jurisdiction. The legal counsel of the jurisdiction shall institute appropriate action against the owner of the premises or the owner's authorized agent where the *unsafe* structure is or was located for the recovery of such costs.

**117.7 Hearing.**

Any person ordered to take emergency measures shall comply with such order forthwith. Any affected person shall thereafter, on petition directed to the appeals board, be afforded a hearing as described in this code.

**SECTION 118 DEMOLITION**

**118.1 General.**

When the *building official* determines any structure is so old, dilapidated or has become so out of repair and is dangerous, unsafe, insanitary and otherwise unfit for human habitation or occupancy the *building official* can order either of the following:

1.The *building official* is permitted to authorize the owner or owner's authorized agent to make the structure safe by *repairs* in order to make the structure safe and sanitary. Where there has been a cessation of construction repairs of any structure for a period of more than 2 years, the structure will be ordered demolished and removed.

2.The *building official* is permitted to order the owner or owner's authorized agent to demolish and remove any such structure.

**118.2 Notices and orders.**

Notices and orders shall comply with Section 114.

**118.3 Failure to comply.**

If the owner or the owner's authorized agent of a premises fails to comply with a demolition order within the time prescribed, the *building official* shall cause the structure to be demolished and removed, either through an available public agency or by

contract or arrangement with private persons, and the cost of such demolition and removal shall be charged against the real estate on which the structure is located and shall be a lien on such real estate.

**118.4 Salvage materials.**

Where any structure has been ordered demolished and removed, the governing body or other designated officer under said contract or arrangement aforesaid shall have the right to sell the salvage and valuable materials at the highest price obtainable. The net proceeds of such sale, after deducting the expenses of such demolition and removal, shall be promptly remitted with a report of such sale or transaction, including the items of expense and the amounts deducted, for the person who is entitled thereto, subject to any order of a court. If such a surplus does not remain to be turned over, the report shall so state.

## End of New Hampshire State Building Code Administrative Amendment

## Delete Chapter 1 and add the following (C1-24-01-25):

Refer to the New Hampshire State Building Code Administrative Amendment.

## Amend Section 202 adding the definition as follows (BD-24-03-25-R1):

**RECOVERY HOUSE. As defined in RSA 153:10(d), 2.**

## Amend Section 310.3 as follows (BD-24-01-25):

Residential Group R-2 occupancies containing *sleeping units* or more than two *dwelling units* where the occupants are primarily permanent in nature, including:

Apartment houses

*Congregate living facilities* (nontransient) with more than 16 occupants

*Boarding houses* (*nontransient*)

Convents

*Dormitories*

Emergency forces living quarters

Fraternities and sororities

Monasteries

Hotels (nontransient) with more than five guestrooms

*Live/work units*

Motels (nontransient) with more than five guestrooms

Vacation timeshare properties

***Recovery House***

## Amend Section 310.4 as follows (BD-24-01-25):

Residential Group R-3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

Buildings that do not contain more than two *dwelling units*

Care facilities that provide accommodations for five or fewer persons receiving care

*Congregate living facilities* (nontransient) with 16 or fewer occupants

*Boarding houses* (nontransient)

Convents

*Dormitories*

Emergency forces living quarters

Fraternities and sororities

Monasteries

*Congregate living facilities* (*transient*) with 10 or fewer occupants

*Boarding houses* (*transient*)

*Lodging houses* (*transient*) with five or fewer *guest rooms* and 10 or fewer occupants

Hotels (nontransient) with five or fewer guestrooms

Motels (nontransient) with five or fewer guestrooms

***Recovery House***

## Amend Section 903.2.8 as follows (BD-24-05-25):

**903.2.8 Group R**.

An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all *buildings* with a Group R *fire area*.

**Exception: An *automatic sprinkler system* is not required in single occupancy residential cabins in youth recreation camps as defined in RSA 170-E:55, not more than two *stories above grade plane*. (RSA 155-A:14)**

[remainder of section unchanged]

**Amend Table 1006.3.4(1) as follows (BD-24-01-25):**

TABLE 1006.3.4(1)

STORIES AND OCCUPIABLE ROOFS WITH ONE EXIT

OR ACCESS TO ONE EXIT FOR R-2 OCCUPANCIES

| STORY OR OCCUPIABLE ROOF | OCCUPANCY | MAXIMUM NUMBER OF DWELLING UNITS | MAXIMUM EXIT ACCESS TRAVEL DISTANCE |
|---|---|---|---|
| Basement, first, second ~~or~~, third, **or fourth** story above grade plane and *occupiable roofs* over the first or second *story above grade plane* | R-2[a, b, c] | 4 dwelling units | 125 feet |
| ~~Fourth~~ **Fifth** *story above grade plane* and higher | NP | NA | NA |

For SI: 1 foot = 304.8 mm.

NP = Not Permitted.

NA = Not Applicable.

a. Buildings classified as Group R-2 equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 and provided with emergency escape and rescue openings in accordance with Section 1031.

b. This table is used for R-2 occupancies consisting of dwelling units. For R-2 occupancies consisting of sleeping units, use Table 1006.3.4(2).

c. This table is for occupiable roofs accessed through and serving individual dwelling units in Group R-2 occupancies. For Group R-2 occupancies with occupiable roofs that are not accessed through and serving individual dwelling units, use Table 1006.3.4(2).

**Add new Section 1011.12.3 as follows (BD-24-02-25-R2):**

**1011.12.3 Equipment or appliances on roofs or elevated structures. Refer to *International Mechanical Code* 2024, Section 306.5, for complete text related to access and protection.**

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

## Amend Section 1031.2 as follows (BD-24-01-25):

**1031.1 General.**

*Emergency escape and rescue openings* shall comply with the requirements of this section.

**1031.2 Where required.**

In addition to the *means of egress* required by this chapter, *emergency escape and rescue openings* shall be provided in the following occupancies:

1. Group R-2 occupancies located in *stories* with only one *exit* or *access to* only one *exit* as permitted by Tables 1006.3.4(1) and 1006.3.4(2).

2. Group R-3 and R-4 occupancies.

**3. Group R-2 and R-3 occupancies complying with Section 1011.2.1, Exception 4 of the *International Existing Building Code* for buildings with non-sprinklered *dwelling units*.**

**4. Group R-2 occupancies complying with Section 803.2.2, Exception 2 and the Exception to Section 803.2.2.1 of the *International Existing Building Code* for buildings with non-sprinklered *dwelling units*.**

[remainder of section unchanged]

## Add new Section 1102.2 as follows (BD-24-01-25):

**1102.2 Certification. The certifications required by NH RSA 155-A:5, both for *construction documents* and at the completion of construction, shall be submitted to the *building official* prior to the issuance of the certificate of occupancy.**

## Amend Section 1105.1 as follows (BD-24-01-25):

**1105.1 Public entrances.** In addition to accessible entrances required by Sections 1105.1.2 through ~~1105.1.8~~**1105.1.10**, at least 60 percent of all *public entrances* shall be *accessible*.

Exceptions:

1. An accessible entrance is not required to areas not required to be *accessible*.

2. Loading and *service entrances* that are not the only entrance to a tenant space.

**1105.1.1: Power-operated doors at public entrances.**

~~In facilities with the occupancies and building *occupant loads* greater than indicated in Table 1105.1.1, each *public entrance* required to be accessible shall have a minimum of one door be a *power-operated* door or a *low-energy power-operated door.*~~ **Accessible *public entrances* shall be in accordance with 1105.1.1.1 and 1105.1.1.2.** Where the accessible *public entrance*

includes doors in series, such as a vestibule, a minimum of one set of two doors in series shall meet the requirements of this section.

**Exceptions:**

1. For the purpose of determining power-operated door requirements, a tenant space with its own exterior *public entrance* shall be considered a separate *facility* and building.

2. The requirements of this section are not applicable to mixed-use facilities where the total building occupant load for the occupancies listed in Table 11105.1.1 is calculated as the sum of the ratios of the actual occupant load of each occupancy divided by the building occupant load threshold of each occupancy and the sum of tile ratios is less than 1.

~~TABLE 1105.1.1~~

~~PUBLIC ENTRANCE WITH POWER-OPERATED DOOR [a]~~

| ~~OCCUPANCY~~ | ~~BUILDING OCCUPANT LOAD GREATER THAN~~ |
|---|---|
| ~~A-1, A-2, A-3, A-4~~ | ~~300~~ |
| ~~B, M, R-1~~ | ~~500~~ |

~~a. In mixed-use facilities where the total sum of the building occupant load is greater than those listed, the most restrictive building occupant load shall apply.~~

**1105.1.1.1 At least one of the required accessible public entrances in Groups A, E, I-1. I-2, I-3, R-1 and R2 shall be equipped with either full power-operated or low energy power-operated automatic doors in compliance with ICC A117.1.**

**1105.1.1.2 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 $m^2$ ) in size, and the nonresidential portion of live/work units per Section 419 greater than or equal to 1,000 net square feet (93 $m^2$ ) shall be equipped with either full power-operated or low energy power-operated automatic doors in compliance with ICC A117.1.**

**1105.1.1.2.1 Required accessible public entrances in Groups B and M less than 1,000 net square feet (93 $m^2$ ) in size and the nonresidential portion of live/work units per Section 419 less than 1,000 square feet (93 $m^2$ ), where automatic doors are not provided, an electric signaling device to alert the owner of a presence at the door shall be provided.**

[Exceptions and Sections 1105.1.2 through 1105.1.8 are unchanged]

## Amend Section 1106 as follows (BD-24-01-25):

**1106.1 General.** Parking shall comply with Sections 1106.2 through 1106.~~8~~9. Passenger loading zones shall comply with Section 1106.~~9~~10.

**1106.6 Van spaces.** For every six or fraction of six accessible parking spaces, at least one shall be a van-accessible parking space.

**Exception:** In Group U *private garages* that serve Group R-2 and R-3 occupancies, van-accessible spaces shall be permitted to have vehicular routes, entrances, parking spaces and access aisles with a minimum vertical clearance of 7 feet (2134 mm).

**1106.6.1. Van-accessible parking spaces shall be 96 inches (2440 mm) minimum in width. The adjacent access aisle shall be 96 inches (2440 mm) minimum in width.**

**1106.7 Location.** [section unchanged]

**1106.8 Marking. Access aisles shall be marked so as to discourage parking in them and designated by vertical "No Parking" signs located at the front of the access aisle and mounted with the bottom of the sign 60 inches (1525 mm) minimum above the floor of the access aisle.**

**Exception: A "No Parking" sign is not required when:**

**1. The placement of the sign would obstruct the accessible route to the accessible entrance.**

**2. There is a non-removable physical obstacle preventing the placement of the sign.**

**3. The placement of a sign would be in front of a window wall.**

**4. The placement of a sign would otherwise be in conflict with a provision of this Code.**

**1106.~~8~~9 Parking meters and pay stations.**

**1106.~~9~~10 Passenger loading zones.**

**1106.~~9~~10.1 Continuous loading zones.**

**1106.~~9~~10.2 Medical facilities.**

**1106.~~9~~10.3 Valet parking.**

**1106.~~9~~10.4 Mechanical access parking garages.**

## Add new Section 1110.4 as follows (BD-24-01-25):

**1110.4 Adult changing stations.** Where provided, adult changing stations shall be accessible. Where required, adult changing stations shall be accessible and shall comply with Section 1110.4.1 through 1110.4.~~4~~5.

**1110.4.1 Where required.** Not fewer than one adult changing station shall be provided in the following locations:

1. In assembly ~~and mercantile~~ occupancies, ~~where family or assisted use toilet or bathing rooms are required to comply with section 1110.2.1.~~ **where the occupancy meets one or both of the following conditions:**

**1.1 Where family or assisted use toilet or bathing rooms are required to comply with section 1110.2.1.**

**1.2 The occupancy has an occupant load of 1,500 or more.**

**2. In mercantile occupancies of 40,000 aggregate square feet (3716 $m^2$) or greater.**

~~2~~3. In Group B occupancies providing educational facilities for students above the 12$^{th}$ grade, where an aggregate of 12 or more male and female water closets are required to serve the classrooms and lecture halls.

~~3~~4. In Group E occupancies, where a room or space used for assembly purposes requires an aggregate of six or more male and female water closets for that room or space.

~~4~~5. In highway rest stops and highway service plazas.

[Sections 1110.4.2 through 1110.4.4 unchanged]

## Add new Section 1110.2.6 as follows (BD-24-01-25):

**1110.2.6 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 Section 603.5 of 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 $m^2$) in size.**

## Amend Section 2701.1 as follows (BD-24-05-25):

**2701.1 Scope.**

The provisions of this chapter and NFPA 70 shall govern the design, construction, erection and installation of the electrical components, appliances, equipment and systems used in buildings and structures covered by this code. The *International Fire Code*, the *International Property Maintenance Code* and NFPA 70 shall govern the use and maintenance of electrical components, appliances, equipment and systems. The *International Existing Building Code* and NFPA 70 shall govern the alteration, repair, relocation, replacement and addition of electrical components, appliances, or equipment and systems.

**Exception: Residential cabins in youth recreation camps as defined in RSA 170-E:55 shall not be required to have electrical systems, however, if such a system is provided, the provisions of this chapter shall apply. (RSA 155-A:14)**

## Amend Section 2801.1 as follows (BD-24-05-25):

**2801.1 Scope.**

The provisions of this chapter, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the design, construction, erection and installation of mechanical appliances, equipment and systems used in buildings and structures covered by this code. Masonry chimneys, fireplaces and barbecues shall comply with the *International Mechanical Code* and Chapter 21 of this code. The *International Fire Code*, the *International Property Maintenance Code*, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the use and maintenance of mechanical components, appliances, equipment and systems. The *International Existing Building Code*, the *International Mechanical Code* and the *International Fuel Gas Code* shall govern the alteration, repair, relocation, replacement and addition of mechanical components, appliances, equipment and systems.

**Exception: Residential cabins in youth recreation camps as defined in RSA 170-E:55 shall not be required to have mechanical systems, however, if such a system is provided, the provisions of this chapter shall apply. (RSA 155-A:14)**

## Amend Section 2901.1 as follows (BD-24-05-25):

**2901.1 Scope.**

The provisions of this chapter and the *International Plumbing Code* shall govern the design, construction, erection and installation of plumbing components, appliances, equipment and systems used in *buildings* and structures covered by this code. Toilet and bathing rooms shall be constructed in accordance with Section 1210. Private sewage disposal systems shall conform to the *International Private Sewage Disposal Code*. The *International Fire Code*, the *International Property Maintenance Code* and the *International Plumbing Code* shall govern the use and maintenance of plumbing components, appliances, equipment and systems. The *International Existing Building Code* and the *International Plumbing Code* shall govern the alteration, *repair*, relocation, replacement and *addition* of plumbing components, *appliances*, *equipment* and systems.

**Exception: Residential cabins in youth recreation camps as defined in RSA 170-E:55 shall not be required to have plumbing systems, however, if such a system is provided, the provisions of this chapter shall apply. (RSA 155-A:14)**

## Amend Section 3103.1.3 as follows (BD-24-01-25):

**3103.1.3 Permit required.** Temporary structures that cover an area greater than 120 square feet (11.16 $m^2$), 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*.

**Exception: Temporary event tents less than 400 square feet (37.2 $m^2$) are exempt from permits.**

**Add new Section Appendix C105 as follows (BD-24-06-25-R1):**

**Section C105 Structural Design. Structures covered exclusively with plastic film housing horticultural uses as described in Section Appendix C101.1 shall comply with manufacturer's installation instructions and are exempt from Chapter 16 requirements except that anchoring shall follow manufacturer's instructions or Section 1604.8.1**

**End of *International Building Code*® 2024 amendments**

## Delete Chapter 1 and add the following (C1-24-01-25):

Refer to the New Hampshire State Building Code Administrative Amendment.

## Amend Section 202 adding the definition as follows (EX-24-01-25):

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

## Amend Section 306.7 as follows (EX-24-02-25):

**306.7 Alterations.** A facility that is altered shall comply with the applicable provisions in Chapter 11 of the International Building Code, ICC A117.1 and the provisions of Sections 306.7.1 through ~~306.7.18~~**306.7.19**, unless technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent technically feasible.

**[No changes 306.7.1 – 306.7.14]**

**306.7.15 Adult Changing Stations.** Where additional toilet facilities are being added, **or for Level III alterations**, in occupancies where adult changing stations are required by Section 1110.4.1 of the *International Building Code*, not fewer than one accessible family or assisted-use toilet room with an adult changing station shall be provided in accordance with Section 1110.4 of the *International Building Code*. The adult changing station shall be permitted to be located in a family or assisted-use toilet room or bathing room required by Section 306.7.12, 306.7.13 or 306.7.14.

**[No changes 306.7.16 – 306.7.18]**

**306.7.19 Diaper changing tables. The requirements of this section apply to Level III alterations and changes of occupancy. 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 $m^2$) in size.**

## Amend Section 803.2.2 as follows (EX-24-01-25):

**803.2.2 Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 and S-2.** In buildings with occupancies in Groups A, B, E, F-1, H, I-1, I-3, I-4, M, R-1, R-2, R-4, S-1 and S-2, work areas that have exits or corridors shared by more than one tenant or that have

exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where both of the following conditions occur:

1. The *work area* is required to be provided with automatic sprinkler protection in accordance with the *International Building Code* as applicable to new construction; and

2. The *work area* exceeds 50 percent of the floor area.

**Exceptions:**

**1.** If the building does not have an existing water supply present at the floor of the proposed *work area* wit sufficient pressure and flow for design of a fire sprinkler system and without installation of a new fire pump, the *work areas* shall be protected by an automatic smoke detection system throughout all occupiable spaces other than sleeping units or individual dwelling units that activates the occupant notification system in accordance with Sections 907.4, 907.5 and 907.6 of the *International Building Code*.

**2. An *automatic sprinkler system* shall not be required in Group R-2 buildings containing not more than four nontransient *dwelling units* where all of the following are met:**

**2.1 Building is three *stories* or less in height.**

**2.2 Building does not include *congregate living facilities*.**

**2.3 Building does not involve an increase in height or area except to provide egress or accessibility.**

**2.4 Each *dwelling unit* has one of the following:**

**2.4.1 An *exit* door directly to the exterior at the *level of exit discharge*; or**

**2.4.2 Direct access to an *exterior exit stairway* serving a maximum of two *dwelling units* on the same *story*; or**

**2.4.3 Direct access to an *interior exit stairway* serving only that *dwelling unit* and separated from all other portions of the building with 1-hour *fire barriers* and *horizontal assemblies*.**

**2.5 *Dwelling units* have *emergency escape and rescue openings* in accordance with Section 1031 of the *International Building Code*.**

**803.2.2.1 Mixed uses.** In work areas containing mixed uses, one or more of which requires automatic sprinkler protection in accordance with Section 803.2.2, such protection shall not be required throughout the *work area* provided that the uses requiring such protection are separated from those not requiring protection by fire-resistance-rated construction having a minimum 2-hour rating for Group H and a minimum 1-hour rating for all other occupancy groups.

**Exception: Refer to Section 803.2.2 Exception 2.**

## Amend Section 1011.2.1 as follows (EX-24-01-25):

**1011.2.1 Automatic sprinkler system.**

The installation of an automatic sprinkler system shall be required where there is a change of occupancy classification and Chapter 9 of the current International Building Code requires an automatic sprinkler system based on the new occupancy or where there is a change of occupancy within the space where there is a different fire protection system threshold requirement in Chapter 9 of the current International Building Code than exists in the current building or space. The installation of the

automatic sprinkler system shall be required within the area of the change of occupancy and areas of the building not separated horizontally and vertically from the change of occupancy by a nonrated permanent partition and horizontal assemblies, fire partition, smoke partition, smoke barrier, fire barrier or fire wall.

**Exceptions:**

1 thru 3. [No change.]

**4. An *automatic sprinkler system* shall not be required in buildings containing not more than four nontransient *dwelling units* where all of the following are met:**

**4.1 Building is three *stories* or less in height.**

**4.2 Building is undergoing a *change of occupancy* to Group R-2 or R-3.**

**4.3 Building does not include care facilities or *congregate living facilities*.**

**4.4 Building does not involve an increase in height or area except to provide egress or accessibility.**

**4.5 Each *dwelling unit* has one of the following:**

**4.5.1 An *exit* door directly to the exterior at the *level of exit discharge*; or**

**4.5.2 Direct access to an *exterior exit stairway* serving a maximum of two *dwelling units* on the same *story*; or**

**4.5.3 Direct access to an *interior exit stairway* serving only that *dwelling unit* and separated from all other portions of the building with 1-hour *fire barriers* and *horizontal assemblies*.**

**4.6 *Dwelling units* have *emergency escape and rescue openings* in accordance with Section 1031 of the *International Building Code*.**

## Amend Section 1011.6.1.1 as follows (EX-24-01-25):

**1011.6.1.1 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 ~~Fire~~ **Building** Code*.

2. The maximum allowable area between fire barriers, horizontal assemblies or any combination thereof shall not exceed the maximum allowable area determined in accordance with Chapter 5 of the *International Building Code* without an increase allowed for an automatic sprinkler system in accordance with Section 506 of the *International Building Code*.

3. The fire-resistance rating of the fire barriers and horizontal assemblies shall be not less than that specified for fire walls in Table 706.4 of the *International Building Code*.

**Exception:** Where horizontal assemblies are used to limit the maximum allowable area, the required fire resistance rating of the horizontal assemblies shall be permitted to be reduced by 1 hour provided that the height and number of stories increases allowed for an automatic sprinkler system by Section 504 of the *International Building Code* are not used for the buildings.

## End of *International Existing Building Code*® 2024 amendments

## Delete Chapter 1 [CE] and add the following (C1-24-01-25):

Refer to the New Hampshire State Building Code Administrative Amendment.

## Amend Section C202 as follows (EN-18-14-25):

**C202 General Definitions.**

**Residential Building.** For this code, includes detached one- and two-family dwellings and (townhouses) as well as Group R-2, R-3 and R-4 buildings ~~three~~ **four** stories or less in height above grade plane.

## Amend Section C301.1 as follows (EN-18-16-25):

**C301.1 General.**

Revise Figure C301.1 to show Merrimack County in Climate Zone ~~6~~**5**.

Revise Table C301.1 to show Merrimack County in Climate Zone ~~6~~**5**A.

## Delete Section C406 (EN-18-03-21):

**SECTION C406**

**ADDITIONAL EFFICIENCY**

**[Delete Section in its entirety]**

## Delete Section C408 (EN-18-04-21):

**SECTION C408**

**SYSTEM COMMISSIONING**

**[Delete Section in its entirety]**

## Amend Section C505.1 as follows: (EN-18-07-22)

**C505.1 General.** Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with this code **except as permitted by Section C-503**. Where the use in a space changes from one use in Table C405.3.2(1) or C405.3.2(2) to another use in Table C405.3.2(1) or C405.3.2(2), the installed lighting wattage shall comply with Section C405.3. Where the space undergoing a change in occupancy or use is in a building with a fenestration area that exceeds the limitations of Section C402.4.1, the space is exempt from Section C402.4.1 provided that there is not an increase in fenestration area.

**Exceptions:**

1. Where the component performance alternative in Section C402.1.5 is used to comply with this section, the proposed UA shall be not greater than 110 percent of the target UA.

2. Where the total building performance option in Section C407 is used to comply with this section, the annual energy cost of the proposed design shall be not greater than 110 percent of the annual energy cost otherwise permitted by Section C407.3.

## Delete Chapter 1 [RE] and add the following (C1-24-01-25):

Refer to the New Hampshire State Building Code Administrative Amendment on page 4.

## Amend Section R202 as follows (EN-18-15-25):

**R202 General Definitions.**

**Residential Building.** For this code, includes detached one- and two-family dwellings and (townhouses) as well as Group R-2, R-3 and R-4 buildings ~~three~~ **four** stories or less in height above grade plane.

## Amend Section R301.1 as follows (EN-18-17-25):

**R301.1 General.**

Revise Figure R301.1 to show Merrimack County in Climate Zone ~~6~~**5**.

Revise Table R301.1 to show Merrimack County in Climate Zone ~~6~~**5**A.

## Amend Section R402.4.1.2 as follows (EN-18-12-24):

**R402.4.1.2 Testing.**

The *building* or *dwelling unit* shall be tested and verified as having an air leakage rate not exceeding five air changes per hour in *Climate Zones* 1 and 2, and ~~three~~ **five** air changes per hour in *Climate Zones* 3 through 8. Testing shall be conducted in accordance with RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inch 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*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, where installed at the time of the test, shall be open.
4. Exterior or interior terminations for continuous ventilation systems shall be sealed.
5. Heating and cooling systems, where installed at the time of the test, shall be turned off.
6. Supply and return registers, where installed at the time of the test, shall be fully open.

## Amend Section R403.3.4 as follows (EN-18-11-24):

**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 ~~4~~ **6** cubic feet per minute (~~113.3~~**170** L/min) per 100 square feet (9.29 $m^2$) 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 ~~3~~ **4** cubic feet per minute (~~85~~ **113.3** L/min) per 100 square feet (9.29 $m^2$) of conditioned floor area.
2. Postconstruction test: Total leakage shall be less than or equal to ~~4~~ **8** cubic feet per minute (~~113.3~~**226.6** L/min) per 100 square feet (9.29 $m^2$) of conditioned floor area.

## Amend Section R505.1 as follows (EN-18-08-22):

**R505.1 General.** Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with this code **except as permitted by Section R-503**.

**R505.2 General.** Any space that is converted to a dwelling unit or portion thereof from another use or occupancy shall comply with this code **except as permitted by Section R-503**.

**Exception:** Where the simulated performance option in Section R405 is used to comply with this section, the annual energy cost of the *proposed design* is permitted to be 110 percent of the annual energy cost allowed by Section R405.3.

**Add Form EC-1 per RSA 155-A:10-a as follows (EN-18-13-24):**

https://mm.nh.gov/files/uploads/fmo/remote-docs/nh-energy-codes-form-iecc-2018.pdf

EC-1 Form follows:

**End of *International Energy Conservation Code*® 2018 amendments**

# NEW HAMPSHIRE RESIDENTIAL ENERGY CODE APPLICATION

**for Certification of Compliance for New Construction, Additions and/or Renovations of Detached One- and Two-family dwellings and multi-family dwellings (townhouses) not over 3 stories**

EC-1 Form

Minimum Provisions from 2018 IECC Chapter 4 [RE] Effective Date: July 3, 2024 Rev.5

| **Owner/Owner Builder:** Company Name: (if applicable) | | | **General Contractor:** Company Name: | | |
|---|---|---|---|---|---|
| Name: | | | Name: | | |
| Mail Address: | | | Mail Address: | | |
| Town/City: | State: | Zip: | Town/City: | State: | Zip: |
| Phone: | Cell: | | Phone: | Cell: | |
| E-Mail: | | | E-Mail: | | |

| **Location of Proposed Structure:** | | **Type of Construction:** |
|---|---|---|
| Tax Map #: Lot #: | | 1. **Residential** ○ **Small Commercial** |
| Street: | | 2. New Building ○ Renovation ○ Addition |
| Town/City: | County: | 3. Thermally Isolated Sunroom |
| | | 4. Modular Home: the site contractor must submit this form detailing supplementary rooms and Floor and/or Basement insulation unless the floor insulation is installed or provided by the manufacturer and no heated space is added. |
| **Zone 5** ○ Cheshire, Hillsborough, Rockingham Strafford<br>**Zone 6** ○ All other NH counties **and town of Durham** | | **Total New Conditioned* Floor Area:**<br>_____ ft² |
| | | **Basement or Crawl Space type:** (*a conditioned space is one being heated/cooled, containing uninsulated ducts or w/ a fixed opening into conditioned space. Walls must be insulated)<br>**Conditioned?** ○ Yes (Walls must be insulated) ○ No<br>☐ Full Basement ☐ Walk Out Basement<br>☐ Slab on Grade ☐ Other _____ |

| **Structure is EXEMPT because:** | **Form Submitted by:** |
|---|---|
| ☐ Mobile Home ☐ On an historic register | ☐ Owner ☐ Builder ☐ Other _____ |

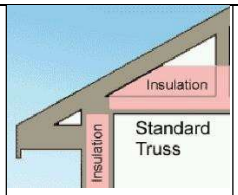
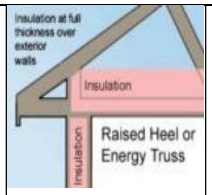
I hereby certify that all the information contained in this application is true and correct, and construction shall comply in all respects with the terms and specifications of the approval given by the local municipal code official or New Hampshire Department of Energy.

**Signature**_____ **Print Name**_____**Date**_____

| **Official Use Only** | | |
|---|---|---|
| **Date Complete Application Received:** | **Approved by:** | **Date:** |
| **Approval Number:** | **Stamp:** | |

Directions: Complete the "Your Proposed Structure" columns. No measurements or calculations are needed. Copies of plans are NOT needed. If you at least meet the Energy Code requirements, your project will be approved. Write N/A in any section that does not apply to your project. If your planned structure does meet these requirements, consider downloading REScheck http://www.energycodes.gov/rescheck to explore energy modelling options. **Please submit pages 1,2 and 3**

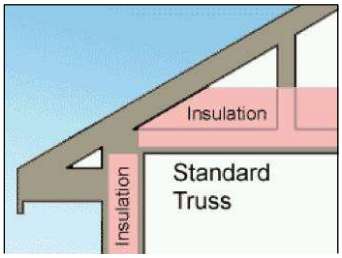
**YOUR PROPOSED STRUCTURE**

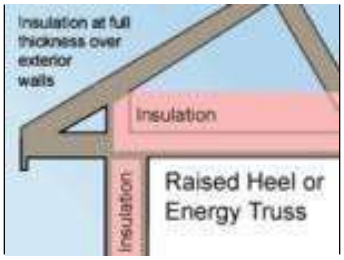
| Building Section | Required R or U Values | Write Planned R and U Values | Brands / Models / insulation type and thickness (if known) |
|---|---|---|---|
| **Window U Factor** (lower U is better) | **U .30** (maximum)<br>**U-.32** (if log walls in Zone 5)<br>**U-.30** (if log walls in Zone 6)<br>**U .45** (Thermally Isolated Sunrooms only) | Write in U-Value | Check if ☐ **Sunroom** ☐ **Log Walls** |
| **Skylights** | **U .55 (or less)**<br>**U .70** (Thermally Isolated Sunrooms only) | | |
| **Flat Ceiling**[i] *or* **Flat Ceiling with Raised or Energy Trusses** **R-value** |  **R-49** (Zone 5 or 6) if using the above construction technique<br>**R-49** if log walls | Write in R-Value<br>→<br>If using only R- 38 in Zone 5 or 6 you must check this box | NOTE: R-38 will satisfy the requirement for R-49 if the full R-38 insulation value is maintained over the outside plates. **If using only R-38 (Zone 5 or 6), you must certify that you will maintain R-38 over the plates by checking the box below.**<br>☐ ***By checking this box, I certify that this structure is being built with a raised energy truss or that the full R-value of the ceiling insulation will be maintained over the outside plates.*** |
| |  **R-38** (Zone 5 or 6) if maintaining the full R value over the plates<br>**R-49** if log walls | | |
| **Sloped or Cathedral Ceiling** | **R-30** (Zone 5 & 6) if less than 500 ft sq or 20% of total ceiling area or as above<br>**R-24** (Thermally Isolated Sunrooms only) | Write in R-Value | Check if ☐ **Sunroom** |
| **Above Grade Wall**[ii] **R-value** | **Zone 5:** **R-20** Cavity Insulation only *or* **R-13** *plus* **R-5** Cavity *plus*<br>**Zone 6:** **R-20** plus **R-5** Cavity *plus* Continuous Insulation *or* **R-13** *plus* **R-10** | Write in R-Value | Log homes must comply with ICC400-2017, have an average minimum wall thickness of 5" or greater with specific gravity of ≤0.5 or 7" with specific gravity >0.5.<br>Check if ☐ **Sunroom** ☐ **Log Walls** |

| | | | |
|---|---|---|---|
| **Basement or Crawl Space Wall R Value** | For *both* Zone 5 and Zone 6 **R-19** Cavity Insulation or **R-15** Continuous Insulation | Write in R-Value | insulate either **Floor** or **Basement Wall**s and **Slab Edge (if ≤ 1' of grade)** |
| **Slab Edge[iii] R Value** | **R-10** **2'** (Zone 5) **4'** (Zone 6) (see drawing pg 3) ***add*** **R-5** if the Slab is heated or **R-15** under entire heated slab if a log home. | Write in R-Value | Check if ☐ **Heated Slab** |
| | | | |
| **Air Sealing** | A blower door test is **required**. The test must demonstrate an air exchange rate of ***five*** Air Changes per Hour (ACH) or less @ 50 Pa. | Blower Door | If required by the code official, an approved third party may be required to conduct the blower door test. |

Submit pages 1,2 and 3 to local municipal code official or NH Department of Energy at energycodes@energy.nh.gov Phone: 603.271.3670 Fax: 603.271.3878

[i] Ceilings with attic spaces: R-38 in Zone 5 or 6 will be deemed to satisfy the requirement for R-49 wherever the full height of uncompressed R-38 insulation extends over the wall top plate at the eaves or the full R-value is maintained. This is often accomplished by using a raised heel or energy truss as shown in the diagram below or by using higher R-value insulation over the plates.



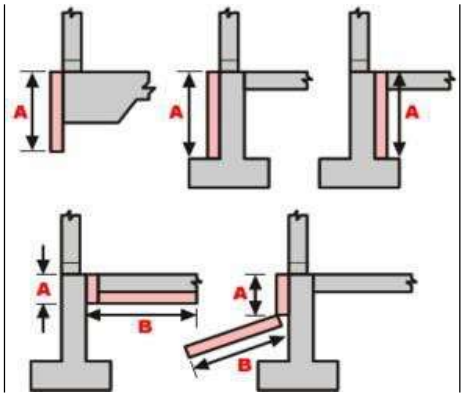




[ii] R-20 + R-5 means R-20 cavity insulation plus R-5 continuous insulation. A reduction of not more than R-3 of the required continuous insulation is permitted where the structural sheathing covers 40% or less of the gross area of the exterior walls.

[iii] Slab edge insulation must start at the top of the slab edge and extend a total of two (Zone 5) or four feet (Zone 6). Insulation may go straight down, out at an angle away from the building, or along the slab edge and then under the slab. A slab is a concrete floor within 1' of grade level. See diagram below.

The top edge of insulation installed between the exterior wall and the interior slab may be mitered at a 45 degree angle away from the exterior wall.

Allowable Slab Insulation Configurations




A or A+ B must equal two feet in Zone 5 or four feet in Zone 6

MODULAR HOMES must be certified by the NH Department of Safety. Unless the floor insulation is provided by the manufacturer this form may be submitted. This form may also be submitted if the basement is to be insulated or supplementary heated space is added to the home upon or after it is set.

## Residential IECC Chapter 4 [RE]

**The following list is intended as a general summary of energy related requirements.**

**Please consult the 2018 IECC Chapter 4 [RE] for complete requirements.**

| | | |
|---|---|---|
| | **Air Leakage**<br>Code Section R402.4 | The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of IECC Sections R402.4.1 through R402.4.5. The building thermal envelope must be durably sealed to limit infiltration. See Table R402.4.1.1 for a list of thermal envelope elements and installation criteria.<br><br>Building envelope air tightness shall be verified to comply by Blower Door testing to not exceed air leakage of 5 Air Changes per Hour (ACH) at 50 Pascals pressure. The local Building Official may require an independent 3rd party to conduct the test. |
| | **Testing**<br>Code Section R402.4.1.2 | The Blower Door Test is the required method to demonstrate code compliance with the air leakage requirement.<br><br>Blower Door Test conducted by: _____<br><br>Result (at 50 Pa): _____CFM Interior Volume_____CF _____ACH |
| | **Fireplaces**<br>Code Section R402.4.2 | New wood-burning fireplaces shall have tight-fitting flue dampers or doors and outdoor combustion air. |
| | **Recessed Lighting**<br>Code Section R402.4.5 | Recessed lights in the thermal envelope must be type IC rated and labeled as meeting ASTM E 283 and sealed with a gasket or caulk between the housing and the interior wall or ceiling covering. |
| | **High-Efficacy Lighting**<br>Code Section R404.1 | Not less than 90 percent of the lamps in permanently installing lighting fixtures shall contain only high-efficacy lamps. |
| | **Materials and Insulation Identification**<br>Code Section R103.2 and R303.1 | Materials, systems and equipment shall be identified in a manner that will allow a determination of code compliance. Manufacturer manuals for all installed heating, cooling and service water heating equipment must be provided. Insulation R-values, glazing and door U- values and heating and cooling equipment efficiency must be clearly marked on the building plans, drawings or specifications. |
| | **Pull-Down Attic Stairs, Attic Hatch, and Access Doors**<br>Code Section R402.2.4 | Should be insulated to a level equal to the surrounding surfaces and tightly sealed and weather- stripped at the opening. Access that prevents damaging or compressing insulation shall be provided to all equipment. A baffle or retainer shall be provided to prevent loose fill insulation from spilling from the attic access. |

| | | |
|---|---|---|
| | **Access Hatches and Doors**<br><br>Codes Sections R402.4 and R402.3.4 | All doors leading from a conditioned space into an unconditioned space such as an attic or basement should be insulated to a level equal to the surrounding space and weather-stripped or rated door units meeting the U-factor requirement. One door less than 24 square feet is exempt. |
| | **Duct Insulation**<br><br>Code Section R403.3.1 | **Supply and return** ducts in attics must be insulated to at least R-8 where 3 in. diameter or greater and not less than R-6 for ducts smaller than 3 in. diameter. Supply and return ducts in other portions of the building must be insulated to at least R-6 where 3 in. diameter or greater and not less than R-4.2 for ducts smaller than 3 in. diameter. Exception: Ducts or portions thereof located completely inside the building thermal envelope. |
| | **Duct Construction**<br><br>Code Sections R403.3.2 and R403.3.5 | Ducts, air handlers and filter boxes shall be sealed. Joints and seams must comply with the *Int. Mech. Code* or Section M1601.4.1 of the *International Residential Code*. Building framing cavities **shall not** be used as ducts or plenums (neither supply nor return). |

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| | | |
|---|---|---|
| | **Duct Testing**<br><br>Code Sections R403.3.3 | Ducts shall be pressure tested to determine air leakage by either 1) rough-in test or 2) post-construction test. Rough in Test: Ducts must be no leakier than 6 CFM per 100 sqft of conditioned floor area with air handler installed or 4 CFM per 100sqft without the air handler installed. Post Construction: Ducts must be no leakier than 8 CFM per 100 sqft of conditioned floor area. See Code for further requirement details.<br><br>Test conducted by: _____<br><br>Duct test result at 25 Pa:_____Post construction or _____Rough-in test |
| | **Temperature Controls** Code Section R403.1, R403.1.1 and R403.1.2 | At least one thermostat must be provided for each separate heating and cooling system. The thermostat controlling the primary system must be equipped with a programmable thermostat.<br><br>Heat pumps having supplementary electric-resistance heat must have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load |
| | **Mechanical System Piping Insulation**<br><br>Code Section R403.4 | Mechanical system piping capable of conveying fluids at temperatures above 105°F or below 55°F must be insulated to R-3. |
| | **Circulating Hot Water Systems**<br><br>Code Section R403.5.1.1 and R403.5.3 | Controls for circulating hot water system pumps shall start based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water. |

| | | |
|---|---|---|
| | | Circulating domestic hot water system piping shall be insulated to R-3. |
| | **Mechanical Ventilation Code** Section R403.6 | The building shall be provided with ventilation that meets the requirements of Section M1504 of the International Residential Code or the International Mechanical Code, as applicable, or with other approved means of ventilation. Outdoor air intakes and exhausts must have automatic or gravity dampers that close when the ventilation system is not operating. |
| | **Equipment Sizing**<br>Code Section R403.7 | Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. Equipment shall have an efficiency rating equal to or greater than applicable federal standards. |
| | **Certificate**<br>Code Section R401.3 | A permanent certificate, completed by the builder or registered design professional, must be posted on a wall in the space where the furnace is located, in a utility room or on the electrical distribution panel. It must list the R-values of insulation installed in or on the ceiling, walls, foundation, slab and ducts outside the conditioned spaces; U-factors and SHGC for fenestration; results from any required duct system test and building envelope air leakage testing performed on the building. The certificate must also list the type and efficiency of heating, cooling and service water heating equipment. |
| | **Existing Buildings and Structures**<br>See **Appendix J** of IRC | The purpose of these provisions is to encourage continued use of existing buildings and structures. Work in existing buildings shall be classified into categories of repair, renovation, alteration and reconstruction. Consult this Appendix for specific requirements related to work in existing buildings. |
| | | |

# International Mechanical Code® 2024 amendments

**Delete Chapter 1 and add the following (C1-24-01-25):**

Refer to the New Hampshire State Building Code Administrative Amendment.

**Amend Section 202 by adding the definitions as follows (ME-24-01-25):**

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

**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".**

**Add New Section 301.19 as follows (ME-24-01-25):**

**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 (7.5kW) 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.**

## Amend Section 606.2 and Add New Section 606.2.4 as follows (ME-24-01-25):

**606.2 Where required**.

Smoke detectors shall be installed where indicated in Sections 606.2.1 through ~~606.2.3~~**606.2.4**.

**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 Return air systems.** Smoke detectors shall be installed in return air systems with a design capacity of greater than 2000 cfm (0.9 $m^3$/s), in the return air duct or *plenum* upstream of any filters, *exhaust air* connections, outdoor air connections, or decontamination *equipment 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*~~ ***Building*** *Code*. The area smoke detection system shall comply with Section 606.4.

**606.2.2 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 $m^3$/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 m3/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, and 606.2.4

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.

**606.2.3 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 $m^3/s$), 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*.

**606.2.4 Supply air 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 of greater than 2000 cfm (0.9 $m^3/s$).**

**Exception: Smoke detectors are not required in the supply 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 Building Code*. The area smoke detection system shall comply with Section 606.4**

## Amend Section 1002.2.2 as follows (ME-24-02-25):

**1002.2.2 Temperature limitations.**

Where a combination potable water and space-heating system requires water higher than ~~140~~ **130** degrees **F** (~~60~~ **54.4** degrees C), a temperature-actuated mixing valve that conforms to ASSE 1017 shall be provided to temper the water supplied to the potable hot water distribution system to a temperature of ~~140~~ **130** degrees **F** (~~60~~ **54.4** degrees C) or less **where intended for domestic uses**.

## Add New Section 1004.1.1 as follows (ME-24-01-25):

**1004.1.1 Solid Fuel-Burning Boilers. Solid Fuel-Burning Boilers listed and conforming to European Committee for Standardization 2022 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.**

**Add New References to Chapter 15 as follows (ME-24-01-25):**

CEN European Committee for Standardization

CEN-CENELEC Management Centre

Rue de la Science 23

B - 1040 Brussels, Belgium

Tel: + 32 2 550 08 11

Fax: + 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 500Kw – Terminology, Requirements, Testing and Marking (2022)

**End of *International Mechanical Code*® 2024 amendments**

## Delete Chapter 1 and add the following (C1-24-01-25):

Refer to the New Hampshire State Building Code Administrative Amendment.

## Amend Section 202 as follows (PL-24-01-25):

**BUILDING SEWER.** That part of the drainage system that extends from the end of the *building drain* **to the first fitting beyond the foundation wall of the building or 5 feet (1524 mm) of pipe from the building,** and conveys the discharge to a *public sewer*, *private sewer*, individual sewage disposal system or other point of disposal.

**Combined.** A *building sewer* that conveys both sewage and storm water or other drainage.

**Sanitary.** A *building sewer* that conveys sewage only.

**Storm.** A *building sewer* that conveys storm water or other drainage, but not sewage.

## Amend Section 202 as follows (PL-24-02-25):

**HOT WATER.**

**Residential. Water at a temperature greater than or equal to 110 degrees F (43 degrees C) and not over 130 degrees F (54 degrees C).**

**Non-Residential.** Water at a temperature greater than or equal to 110 degrees F (43 degrees C).

## Amend Section 305.4.1 as follows (PL-24-01-25):

**305.4.1Sewer depth.** Building sewers that connect to private sewage disposal systems shall ~~be installed not less than [NUMBER] inches (mm) below finished grade at the point of septic tank connection~~**conform to RSA 485-A relative to minimum depth below finished grade**. Building sewers **that connect to public sewers** shall be installed not less than ~~[NUMBER]~~ **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**.

## Amend Section 501.6 as follows (PL-24-03-25):

**501.6 Water temperature control in piping from tankless heaters.**

The temperature of water from tankless water heaters shall not be greater than ~~140~~ **130** degrees F (~~60~~ **54.4** degree C) where intended for domestic uses. This provision shall not supersede the requirements for protective shower valves in accordance with Section 412.3.

## Add Section 501.8.1 as follows (PL-24-04-25):

**501.8.1 Minimum temperatures.**

**Storage water heaters shall be set and maintained at a minimum of 140 degrees F (60 degrees C) and equipped with a mixing device that meets the ASSE 1017 standard to regulate water temperatures in the hot water distribution piping system.**

## Amend Section 701.2 as follows (PL-24-01-25):

**701.2 Connection to sewer required.**

Sanitary drainage piping from plumbing fixtures in buildings and sanitary drainage piping systems from premises shall be connected to a public sewer. Where a public sewer is not available, the sanitary drainage piping and systems shall be connected to a private sewage disposal system in compliance with state or local requirements. ~~Where state or local requirements do not exist for private sewage disposal systems, the sanitary drainage piping and systems shall be connected to an approved private sewage disposal system that is in accordance with the International Private Sewage Disposal Code.~~ **Building sewers serving private sewers and individual sewage disposal systems are not regulated by this code but are regulated by the New Hampshire Department of Environmental Services (NHDES).**

**Drainage system piping that conveys discharge from one building to another building on the same lot shall be considered an extension of the building drain.**

> **Exception:** Sanitary drainage piping and systems that convey only the discharge from bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to connect to a public sewer or to a private sewage disposal system provided that the piping or systems are connected to a system in accordance with Chapter 13 or 14.

## Amend Section 705.10.2 as follows (PL-24-01-25):

**705.10.2 Solvent cementing.** Joint surfaces shall be clean and free from moisture. A ~~purple~~ primer that conforms to ASTM F656 shall be applied. Solvent cement not purple in color and conforming to ASTM D2564, CSA B137.3, CSA B181.2 or CSA B182.1 shall be applied to all joint surfaces. The joint shall be made while the cement is wet and shall be in accordance with ASTM D2855. Solvent-cement joints shall be permitted above or below ground.

**Exception:** A primer is not required where both of the following conditions apply:

1. The solvent cement used is third-party certified as conforming to ASTM D2564.

2. The solvent cement is used only for joining PVC drain, waste and vent pipe and fittings in nonpressure applications in sizes up to and including 4 inches (102 mm) in diameter.

3. The joint is made in accordance with ASTM F3328.

## Amend Section 802.1.7 as follows (PL-24-01-25):

**802.1.7 Food Utensils, dished, pots and pans sinks.** Sinks, in other than dwelling unit, used for the washing, rinsing or sanitizing of utensils, dishes, pots, pans, or service ware used in the preparation, serving or eating of food shall discharge indirectly through an *air gap* or an *air break* to the drainage system. **Wash and rinse bays or sinks shall be permitted to discharge indirectly or directly to the drainage system.**

## Amend Section 903.1.1 as follows (PL-24-01-25):

**903.1.1 Roof extension unprotected.** Open vent pipes that extend through a roof shall be terminated not less than ~~[NUMBER]~~ **18** inches (**457** mm) above the roof.

## Amend Section 1002.1 as follows (PL-24-05-25):

**1002.1 Fixture traps.** Each plumbing fixture shall be separately trapped by a liquid-seal trap, except as otherwise permitted by this code. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm), and the horizontal distance shall not exceed 30 inches (610 mm) measured from the centerline of the fixture outlet to the centerline of the inlet of the trap. The height of a clothes washer standpipe above a trap shall conform to Section 802.4.3. A fixture shall not be double trapped.

**Exceptions:**

1, 2 and 3. [unchanged]

4. Where a hydromechanical grease interceptor serves a food utensil, dishes, pots and pans sink, in accordance with the manufacturer's installation instructions. ~~The branch drain serving the interceptor shall be provided with an emergency floor drain downstream of the interceptor connection, and the branch shall serve only the emergency floor drain and the interceptor.~~ ~~w~~**W**here the interceptor serves a combination sink of not more than three compartments where the vertical distance from the fixture outlet to the inlet of the interceptor does not exceed 30 inches (762 mm) and the *developed length* of the waste pipe from the most upstream fixture outlet to the inlet of the interceptor does not exceed 60 inches (1524 mm). The food utensil, dishes, pots and pans sink shall be required to connect directly with the interceptor.

## Add Section 1003.3.5.3 as follows (PL-24-01-25):

**1003.3.5.3 Exclusive use of Hydromechanical Grease Interceptor Exclusive use of a hydromechanical grease interceptor being served by a New Hampshire Department of Environmental Services (NHDES) approved septic system shall be approved by New Hampshire Department of Environmental Services (NHDES) for such use.**

## End of *International Plumbing Code*® 2024 amendments

**Delete Chapter 1 and add the following (C1-24-01-25):**

Refer to the New Hampshire State Building Code Administrative Amendment.

**Add Section R101.2.2 as follows (RE-24-06-25):**

**R101.2.2 Horticultural Uses. Structures housing horticultural uses as described in *International Building Code* Appendix C101.1 shall comply with *International Building Code* Appendix C, as amended.**

**Amend Section R202 as follows (RE-24-01-25):**

**[MP] BUILDING SEWER.** That part of the drainage system that extends from the end of the *building drain* **to the first fitting beyond the foundation wall of the building or 5 feet (1524 mm) of pipe from the** building, and conveys its discharge to a public sewer, private sewer, individual sewage-disposal system or other point of disposal. **Building sewers serving private sewers and individual sewage disposal systems are not regulated by this code but are regulated by the New Hampshire Department of Environmental Services (NHDES).**

**[MP] BUILDING DRAIN.** The lowest piping that collects the discharge from all other drainage piping inside the house and extends 30 inches (762 mm) in *developed length* of pipe, beyond the exterior walls and conveys the drainage to the *building sewer*. **Drainage system piping that conveys discharge from one building to another building on the same lot shall be considered an extension of the building drain.**

**Amend Section R202 adding the definitions as follows (RE-24-01-25):**

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

**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".**

## Amend Section R202 as follows (RE-24-07-25):

**HOT WATER.** Water at a temperature **greater than or equal to 110 degrees F and not over 130 degrees F.** ~~greater than 120ºF (49ºC).~~

## Amend Section R202 adding the definitions as follows (RE-24-03-25):

**Recovery House. As defined in RSA 153:10(d), 2.**

## Amend TABLE R301.2 as follows (RE-24-01-25):

TABLE R301.2 CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

| GROUND SNOW LOAD[g] | WIND DESIGN | | | | SEISMIC DESIGN CATEGORY[f] | SUBJECT TO DAMAGE FROM | | | ICE BARRIER UNDERLAYMENT REQUIRED[h] | FLOOD HAZARDS[g] | AIR FREEZING INDEX[i] | MEAN ANNUAL TEMP[j] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Speed[d] (mph) | Topographic effects[k] | Special wind region[l] | Windborne debris zone[m] | | Weathering[a] | Frost line depth[b] | Termite[c] | | | | |
| – | – | – | – | – | – | – | – | – | – | – | – | – |
| MANUAL J DESIGN CRITERIA[n] | | | | | | | | | | | | |
| Elevation | | | Altitude correction factor[n] | Coincident wet bulb | Indoor winter design relative humidity | Indoor winter design dry-bulb temperature | | | Outdoor winter design dry-bulb temperature | | Heating temperature difference | |
| – | | | – | – | – | – | | | – | | – | |
| Latitude | | | Daily range | Summer design gains | Indoor summer design relative humidity | Indoor summer design dry-bulb temperature | | | Outdoor summer design dry-bulb temperature | | Cooling temperature difference | |
| – | | | – | – | – | – | | | – | | – | |

Notes a thru n. [No change]

Note o. The jurisdiction shall fill in this section of the allowable stress design table using the Ground Snow Loads ~~in Figure R301.2(3)~~**from Table 1 of *Ground Snow Loads for New Hampshire* ERDC/CRREL TR-02-6.**

## Delete Section R302.3.5 as follows (RE-24-02-25):

~~R302.3.5 Vertically stacked dwelling units Where one dwelling unit in a two-family dwelling is located above the other and an automatic sprinkler system complying with Section P2904 is not provided in both dwelling units, both of the following shall apply:~~

~~1. Horizontal and vertical assemblies separating the dwelling units, including an interior stairway serving as the means of egress for the upper dwelling unit, shall be constructed in a manner that limits the transfer of smoke.~~

~~2. A notification appliance connected to smoke alarms in the other dwelling unit shall be provided in each dwelling unit.~~

## Amend Section R302.13 as follows (RE-24-01-25):

**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 for the installation of fuel-fired or electric-powered heating 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 $m^2$) 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. Wood floor assemblies less than 600 square feet (55.7$m^2$) withing detached *accessory structures* with no *habitable space* above them.

**6. 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 Section R104.11.**

## Amend Section R309.2 as follows (RE-24-01-25):

**R309.2 One- and two-family dwellings automatic fire systems.** An automatic sprinkler system shall **not** be ~~installed~~ **required** in one- and two-family *dwellings*.

~~**Exception:** An automatic sprinkler system shall not be required for *additions* or a*lterations* to existing buildings that are not already provided with a sprinkler system.~~

**R309.2.1 Design and installation.** Automatic sprinkler systems shall be designed and installed in accordance with Section P2904 or NFPA 13D.

**R309.2.2 One- and Two-Family *dwellings* automatic fire systems. *Dwellings* provided with an automatic sprinkler system shall be allowed to exercise all credits regarding egress in accordance with RSA 155-A:2 II.**

## Amend Section R319.1 as follows (RE-24-01-25):

**R319.1 Emergency escape and rescue opening required.** *Basements*, *habitable attics*, the room to which a sleeping loft are open, 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. *Basements* used only to house mechanical equipment not exceeding a total floor area of 200 square feet (18.58 $m^2$).
2. Storm shelters constructed in accordance with ICC 500.
3. Where the *dwelling unit* or *townhouse unit* is equipped with an automatic sprinkler system installed in accordance with Section P2904, sleeping rooms in *basements* shall not be required to have *emergency escape and rescue openings* provided that the basement has one of the following:
    - 3.1. One means of egress complying with Section R318 and one *emergency escape and rescue opening*.
    - 3.2. Two means of egress complying with Section R318.
4. A *yard* shall not be required to open directly into a *public way* where the *yard* opens to an unobstructed path from the *yard* to the *public way*. Such path shall have a width of not less than 36 inches (914 mm).
5. ***Emergency escape and rescue openings* required by Section 319.1 are permitted to be omitted where the building is protected by an automatic sprinkler system complying with Section R309.**

## Add Section R322.4 as follows (RE-24-01-25):

**R322.4 Certification. The certifications required by NH RSA 155-A:5, both for *construction documents* and at the completion of construction, shall be submitted to the *building official* prior to the issuance of the certificate of occupancy.**

## Amend Section R329.6 as follows (RE-24-01-25):

**R329.6 Roof access and pathways.** Roof access, pathways and setback requirements shall be provided in accordance with Sections R324.6.1 through R324.6.2.1. Access and minimum spacing shall be required to provide emergency access to the roof, to provide pathways to specific areas of the roof, provide for smoke ventilation opportunity areas, and to provide emergency egress from the roof.

**Exceptions:**

1. Detached, nonhabitable structures, including but not limited to detached garages, parking shade structures, carports, solar trellises and similar structures, shall not be required to provide roof access.

2. Roof access, pathways and setbacks need not be provided where the code official has determined that rooftop operations will not be employed.

3. These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (17-percent slope) or less.

4. BIPV systems *listed* in accordance with UL 3741, where the removal or cutting away of portions of the BIPV system during fire-fighting operations has been determined to not expose a fire fighter to electrical shock hazards.

**5. Access pathways are not required where PV arrays occupy up to 50 percent of the plan view roof area with a common horizontal ridge.**

**R329.6.1 Pathways.**

Not fewer than two pathways, on separate roof planes from lowest roof edge to ridge and not less than 36 inches (914 mm) wide, shall be provided on all buildings. Not fewer than one pathway shall be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, a pathway not less than 36 inches wide (914 mm) shall be provided from the lowest roof edge to ridge on the same roof plane as the photovoltaic array, on an adjacent roof plane, or straddling the same and adjacent roof planes. Pathways shall be over areas capable of supporting fire fighters accessing the roof. Pathways shall be located in areas with minimal obstructions such as vent pipes, conduit, or mechanical equipment.

**Exception: Access pathways are not required where PV arrays occupy up to 50 percent of the plan view roof area with a common horizontal ridge.**

**R329.6.2 Setback at ridge.** For photovoltaic arrays occupying not more than ~~33~~ **50** percent of the plan view total roof area **with a common horizontal ridge**, not less than an 18-inch (457 mm) clear setback is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than ~~33~~ **50** percent of the plan view total roof area **with a common horizontal ridge with a common horizontal ridge**, not less than a 36-inch (914 mm) clear setback is required on both sides of a horizontal ridge.

**R329.6.2.1. Alternative setback at ridge.** [No change]

**R329.6.3 Emergency escape and rescue openings.** [No change]

**R329.6.4 Building-integrated photovoltaic (BIPV) systems.** [No change]

## Delete Chapter 11 in its entirety and add the following (RE-24-01-25):

## CHAPTER 11

## ENERGY EFFICIENCY

**Delete Chapter 11 in its entirety and replace with the following:**

**N1101.1 Buildings shall be designed and constructed in accordance with the *International Energy Conservation Code*, as amended, per the New Hampshire State Building Code, RSA 155-A:1,IV**

## Amend Section M2001.1.1 as follows (RE-24-01-25):

**M2001.1.1 Standards.** Packaged oil-fired boilers shall be *listed* and *labeled* in accordance with UL 726. Packaged electric boilers shall be *listed* and *labeled* in accordance with UL 834. Solid fuel-fired boilers shall be *listed* and *labeled* in accordance with UL 2523. Boilers shall be designed, constructed and certified in accordance with the ASME *Boiler and Pressure Vessel Code,* Section I or IV. Controls and safety devices for boilers with fuel input ratings of 12,500,000 Btu/hr (3663 kW) or less shall meet the requirements of ASME CSD-1. Gas-fired boilers shall conform to the requirements listed in Chapter 24. **Solid Fuel-Burning Boilers listed and conforming to European Committee for Standardization 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.**

## Delete Chapter 24 in its entirety and add the following (RE-24-01-25):

### CHAPTER 24

### FUEL GAS

**Delete Chapter 24 in its entirety and replace with the following:**

**G2401.1. Fuel gas systems shall comply with the New Hampshire State Fire Code as amended.**

## Amend Section P2603.5.1 as follows (RE-24-01-25):

**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**~~be a minimum of [NUMBER] inches (mm) below finished grade at the point of septic tank connection~~. *Building sewers* **that connect to public sewers** shall be a minimum depth of ~~[NUMBER]~~**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**.

## Add Section P2801.2.1 as follows (RE-24-04-25):

**P2801.2.1 Minimum temperatures.**

**Storage water heaters shall be set and maintained at a minimum of 140 degrees F and equipped with a mixing device that meets the ASSE 1017 standard to regulate water temperatures in the hot water distribution piping system.**

## Amend Section P2802.1 as follows (RE-24-08-25):

**P2802.1 Water temperature control.** Where heated water is discharged from a solar thermal system to a *hot water* distribution system, a temperature-actuated mixing valve complying with ASSE 1017 shall be installed to temper the water to a temperature of not greater than ~~140~~**130**°F (~~60~~**54**°C). Solar thermal systems supplying *hot water* for both space heating and domestic uses shall comply with Section P2803.2. A temperature-indicating device shall be installed to indicate the temperature of the water discharged from the outlet of the mixing valve. The temperature-actuated mixing valve required by this section shall not be a substitute for water-temperature limiting devices required by Chapter 27 for specific fixtures.

## Amend Section P2803.2 as follows (RE-24-05-25):

**P2803.2 Temperature Control.**

Where a combination water heater-space heating system requires water for space heating at temperatures exceeding 140 degrees F, a temperature-actuated mixing valve complying with ASSE 1017 shall be installed to temper the water to a temperature of not greater than ~~140~~**130** degrees F for domestic uses.

## Amend Section P2903.11 as follows (RE-24-01-25):

**P2903.11 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.

~~**Exception:** Frostproof hose bibbs installed such that the stem extends through the building insulation into an open heated or semi-conditioned space need not be separately valved (see Figure P2903.11).~~

## Amend Section P3003.9.2 as follows (RE-24-01-25):

**P3003.9.2 Solvent cementing.** Joint surfaces shall be clean and free from moisture. ~~A purple primer, or other~~**An** *approved* 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.

**Exceptions:** [No change]

## Amend Section P3103.1.1 as follows (RE-24-01-25):

**P3103.1.1 Roof extension.** Open vent pipes that extend through a roof that do not meet the conditions of Section P3103.1.2 or P3103.1.3 shall terminate not less than ~~6~~ **18** inches (~~152~~ **457** mm) above the roof or 6 inches (152 mm) above the anticipated snow accumulation, whichever is greater.

## Delete Chapters 34 – 43 in their entirety and add the following (RE-24-01-25):

**Delete Chapters 34 – 43 in their entirety and refer to the National Electrical Code as referenced in RSA 155-A:1, IV.**

## Amend Chapter 44 as follows (RE-24-01-25):

**ASHRAE**

**34 ~~2016~~2022, Designation and Safety Classification of Refrigerants**

**CEN European Committee for Standardization**

**CEN-CENELEC Management Centre**

**Rue de la Science 23**

**B - 1040 Brussels, Belgium**

**Tel: + 32 2 550 08 11**

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**EN European Standard**

**303-5 Heating Boilers-Part 5: Heating Boilers for Solid-Fuels, Manually and Automatically Stoked, Nominal Heat Output of Up to 500Kw – Terminology, Requirements, Testing and Marking (2022)**

## Amend Appendix BB as follows (RE-24-01-25):

**BB102.1 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 R319.2.

**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~~ **600** square feet (~~37~~ **56** $m^2$) or less in floor area habitable space excluding lofts.

## End of *International Residential Code*® 2024 amendments

# International Swimming Pool and Spa Code® 2024 amendments

**Delete Chapter 1 and add the following (C1-24-01-25):**

Refer to the New Hampshire State Building Code Administrative Amendment.

**End of *International Swimming Pool and Spa Code*® 2024 amendments**

**Refer to the New Hampshire State Building Code Administrative Amendment.**

**(C1-24-01-25)**

## Amend Section 210.5(C)(1) as follows (EL-23-01-24):

**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) Branch Circuits Supplied from More Than One Nominal Voltage System**. 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 ~~phase or line~~ and 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 panelboard 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

## Amend Section 210.8(A) as follows (EL-23-02-24):

**210.8** Ground-Fault Circuit-Interrupter Protection for Personnel.

**(A) Dwelling Units.** All 125 -volt through 250-volt, receptacles installed in the following locations and supplied by single-phase branch circuits, rated 150 volts or less to ground**, 60 ampere or less,** shall have ground-fault circuit-interrupter protection for personnel:

(1) through (4) unchanged

(5) **Unfinished** Basements

(6) through (11) unchanged

(12) Indoor ~~damp and~~ wet locations

**Except as not required in Section 210.8(D)**

## Amend Section 210.8(B) as follows (EL-23-03-24):

**210.8** Ground-Fault Circuit-Interrupter Protection for Personnel.

**(B) Other Than Dwelling Units.**

All 125-volt through 250-volt receptacles supplied by single-phase branch circuits rated 150 volts or less to ground, 50 amperes or less, ~~and all receptacles supplied by three-phase branch circuits, rated 150 volts or less to ground, 100 amperes or less,~~ installed in the following locations shall be provided with GFCI protection:

(1) – (7) unchanged

(8) Indoor ~~damp and~~ wet locations

(9) – (15) unchanged

## Amend Section 210.8(D) as follows (EL-23-04-24):

**210.8** Ground-Fault Circuit-Interrupter Protection for Personnel.

**(D) Specific Appliances.**

GFCI protection shall be provided for the branch circuit or outlet supplying the following appliances rated 150 volts or less to ground and 60 amperes or less, single- ~~or 3-~~phase:

(1) Automotive vacuum machines

(2) Drinking water coolers and bottle fill stations

(3) High-pressure spray washing machines

(4) Tire inflation machines

(5) Vending machines

(6) Sump pumps

(7) Dishwashers

~~(8) Electric ranges~~

~~(9) Wall-mounted ovens~~

~~(10) Counter-mounted cooking units~~

(~~11~~8) Clothes dryers

(~~12~~9) Microwave ovens

## Delete Section 210.8(E) as follows (EL-23-05-24):

~~**210.8 (E) Equipment Requiring Servicing.** GFCI protection shall be provided for the receptacles required by 210.63.~~

## Amend Section 210.8(F) as follows (EL-23-06-24):

**210.8** Ground-Fault Circuit-Interrupter Protection for Personnel

**(F) Outdoor Outlets.** For dwellings, all outdoor outlets, other than those covered in 210.8(A), Exception No. 1, including outlets installed in the following locations, and supplied by **125-volt** single-phase branch circuits**,** ~~rated 150 volts or less to ground, 50~~ **20** amperes or less, shall be provided with GFCI protection:

(1) Garages that have floors located at or below grade level

(2) Accessory buildings

(3) Boathouses

If equipment supplied by an outlet covered under the requirements of this section is replaced, the outlet shall be supplied with GFCI protection.

Exception No. 1: GFCI protection shall not be required on lighting outlets other than those covered in 210.8(C).

Exception No. 2: GFCI protection shall not be required for listed HVAC equipment. This exception shall expire September 1, 2026.

## Amend Section 210.12 as follows (EL-23-07-24):

**210.12 Arc-Fault Circuit-Interrupter Protection.** Arc-fault circuit-interrupter (AFCI) protection shall be installed in accordance with 210.12(B) through (~~E~~**D**) by any of the means described in 210.12(A)(1) through (A)(6). The AFCI shall be listed and installed in a readily accessible location.

**(A) Means of Protection.** Unchanged.

**(B) Dwelling Units.** Unchanged.

**(C) Dormitory Units.** All 120-volt, single-phase, 10-, 15-, and 20-ampere branch circuits supplying outlets ~~or devices~~ installed in the following locations shall be protected by any of the means described in 210.12(A)(1) through (A)(6):

(1) through (4) Unchanged

~~(5) Bathrooms~~

~~(6)~~ **(5)** Similar rooms

~~(D) Other Occupancies. All 120-volt, single-phase, 10-, 15-, and 20-ampere branch circuits supplying outlets or devices installed in the following locations shall be protected by any of the means described in 210.12(A)(1) through (A)(6):~~

~~(1) Guest rooms and guest suites of hotels and motels~~

~~(2) Areas used exclusively as patient sleeping rooms in nursing homes and limited-care facilities~~

~~(3) Areas designed for use exclusively as sleeping quarters in fire stations, police stations, ambulance stations, rescue stations, ranger stations, and similar locations~~

(**D**~~E~~) Branch Circuit Wiring Extensions, Modifications, or Replacements. If branch-circuit wiring for any of the areas specified in 210.12(B) or (C)~~, or (D)~~ is modified, replaced, or extended, the branch circuit shall be protected by one of the following:

(1) By any of the means described in 210.12(A)(1) through (A)(6).

(2) A listed outlet branch-circuit-type AFCI located at the first receptacle outlet of the existing branch circuit.

*Exception: AFCI protection shall not be required where the extension of the existing branch-circuit conductors is not more than 1.8 m (6 ft) and does not include any additional outlets or devices, other than splicing devices. This measurement shall not include the conductors inside an enclosure, cabinet, or junction box.*

## Amend Section 210.63(B)(2) as follows (EL-23-08-24):

**210.63(B)(2) Indoor Equipment Requiring Dedicated Equipment Spaces.** Where equipment, other than service equipment, requires dedicated equipment space as specified in 110.26(E), the required receptacle outlet shall be located within the same room or area as the electrical equipment ~~and shall not be connected to the load side of the equipment's branch-circuit disconnecting means~~.

**Delete Section 215.18 as follows (EL-23-09-24):**

~~**215.18 Surge Protection.**~~

~~**(A) Surge-Protective Device.** Where a feeder supplies any of the following, a surge-protective device (SPD) shall be installed:~~

~~(1) Dwelling units~~

~~(2) Dormitory units~~

~~(3) Guest rooms and guest suites of hotels and motels~~

~~(4) Areas of nursing homes and limited-care facilities used exclusively as patient sleeping rooms~~

~~**(B) Location.** The SPD shall be installed in or adjacent to distribution equipment, connected to the load side of the feeder, that contains branch circuit overcurrent protective device(s) that supply the locations specified in 215.18(A).~~

~~**(C) Type.** The SPD shall be a Type 1 or Type 2 SPD.~~

~~**(D) Replacement.** Where the distribution equipment supplied by the feeder is replaced, all of the requirements of this section shall apply.~~

~~**(E) Ratings.** SPDs shall have a nominal discharge current rating (In) of not less than 10kA.~~

**Delete Section 225.42 as follows (EL-23-10-24):**

~~**225.42 Surge Protection.**~~

~~**(A) Surge-Protective Device.** Where a feeder supplies any of the following, a surge-protective device (SPD) shall be installed:~~

~~(1) Dwelling units~~

~~(2) Dormitory units~~

~~(3) Guest rooms and guest suites of hotels and motels~~

~~(4) Areas of nursing homes and limited-care facilities used exclusively as patient sleeping rooms~~

~~**(B) Location.** The SPD shall be installed in or adjacent to the distribution equipment that is connected to the load side of the feeder and contains branch circuit overcurrent protective device(s) that supply the location specified in 225.42(A).~~

~~**(C) Type.** The SPD shall be a Type 1 or Type 2 SPD.~~

~~**(D) Replacement.** Where the distribution equipment supplied by the feeder is replaced, all of the requirements of this section shall apply.~~

~~**(E) Ratings.** SPDs shall have a nominal discharge current rating (In) of not less than 10kA~~.

## Delete Section 230.67 as follows (EL-23-11-24):

~~**230.67 Surge Protection.**~~

~~**(A) Surge-Protective Device.** All services supplying the following occupancies shall be provided with a surge-protective device (SPD):~~

~~(1) Dwelling units~~

~~(2) Dormitory units~~

~~(3) Guest rooms and guest suites of hotels and motels~~

~~(4) Areas of nursing homes and limited-care facilities used exclusively as patient sleeping rooms~~

~~**(B) Location.** The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto.~~

~~Exception: The SPD shall not be required to be located at the service equipment as required in 230.67(B) if located at each next level distribution equipment downstream toward the load.~~

~~**(C) Type.** The SPD shall be a Type 1 or Type 2 SPD.~~

~~**(D) Replacement.** Where service equipment is replaced, all of the requirements of this section shall apply.~~

~~**(E) Ratings.** SPDs shall have a nominal discharge current rating (In) of not less than 10kA.~~

## Amend Section 314.27(C) as follows (EL-23-12-24):

**314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets.**

Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.

~~Outlet boxes mounted in the ceilings of habitable rooms of dwelling occupancies in a location acceptable for the installation of a ceiling-suspended (paddle) fan shall comply with one of the following:~~

~~(1) Listed for the sole support of ceiling-suspended (paddle) fans~~

~~(2) Installed so as to allow direct access through the box to structural framing capable of supporting a ceiling supported (paddle) fan without removing the box.~~

**Where spare, separately switched, ungrounded conductors are provided to a ceiling-mounted outlet box, in a location acceptable for a ceiling-suspended (paddle) fan in one-family, two-family, or multifamily dwellings, the outlet box or outlet box system shall be listed for sole support of a ceiling suspended (paddle) fan.**

## Amend Section 334.10 as follows (EL-23-13-24):

**334.10 Uses Permitted**. Type NM and Type NMC cables shall be permitted to be used in the following, except as prohibited in 334.12:
(1) One- and two-family dwellings and their attached or detached garages, and their storage buildings.
(2) Multi-family dwellings and their detached garages 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) Cable trays in structures permitted to be Types III, IV, or V where the cables are identified for the use.
(5) Types I and II construction where installed within raceways permitted to be installed in Types I and II construction.
**(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.**

## Amend Section 334.12 as follows (EL-23-14-24):

**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) Exposed within a dropped or suspended ceiling cavity in other than one- and two-family and multifamily dwellings.~~

(~~3~~**2**) As service-entrance cable.

(~~4~~**3**) In commercial garages having hazardous (classified) locations as defined in 511.3.

(~~5~~4) In theaters and similar locations, except where permitted in 518.4(8).

(~~6~~5) In motion picture studios.

(~~7~~6) In storage battery rooms.

(~~8~~7) In hoistways or on elevators or escalators.

(~~9~~8) Embedded In poured cement, concrete, or aggregate.

(~~10~~9) In hazardous (classified) locations, except where specifically permitted by other articles in this *Code*.

## Amend Section 334.30 as follows (EL-23-15-24):

**334.30 Securing and Supporting.**

**(A)** unchanged

**(B) Unsupported Cables.** Nonmetallic-sheathed cable shall be permitted to be unsupported where the cable:

(1) Is fished between access points through concealed spaces in finished buildings or structures and supporting is impracticable.

(2) Is not more than 1.4 m (4-1⁄2 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 **in one, two, or multifamily dwellings**.

## Amend Section 422.5(A) as follows (EL-23-16-24):

**422.5 Ground-Fault Circuit-Interrupter (GFCI) Protection for Personnel.**

**(A) General.** Appliances identified in 422.5(A)(1) through (A)(7) 150 volts or less to ground and 60 amperes or less, single ~~or 3~~ phase, shall be provided with Class A protection for personnel. Multiple Class A protective devices shall be permitted but shall not be required.

(1) Automotive vacuum machines
(2) Drinking water coolers and bottle fill stations
(3) Cord-and-plug-connected high-pressure spray washing machines
(4) Tire inflation machines
(5) Vending machines
(6) Sump pumps
(7) Dishwashers

## Amend Section 440.14 as follows (EL-23-17-24):

**440.14 Location.** Disconnecting means shall be located within sight from, and readily accessible from, the air-conditioning or refrigerating equipment. The disconnecting means shall be permitted to be installed on or within the air-conditioning or refrigerating equipment. Disconnecting means shall meet the working space requirements of 110.26(A). The disconnecting means shall not be located on panels that are designed to allow access to the air-conditioning or refrigeration equipment or where it obscures the equipment nameplate(s).

*Exception No. 1: Where the disconnecting means provided in accordance with 430.102(A) is lockable in accordance with 110.25 and the refrigerating or air-conditioning equipment is essential to an industrial process in a facility with written safety procedures, and where the conditions of maintenance and supervision ensure that only qualified persons service the equipment, a disconnecting means within sight from the equipment shall not be required.*

*Exception No. 2: Where an attachment plug and receptacle serve as the disconnecting means in accordance with 440.13, their location shall be accessible but shall not be required to be readily accessible.*

***Exception no. 3: The disconnect for an indoor unit of a ductless mini-split system shall not be required if the disconnect for the outdoor condensing unit that feeds the indoor unit is lockable in the open position in accordance with 110.25.***

## Amend Section 450.9 as follows (EL-23-18-24):

**450.9 Ventilation.** The ventilation shall dispose of the transformer full-load heat losses without creating a temperature rise that is in excess of the transformer rating.

Transformers with ventilating openings shall be installed so that the ventilating openings are not blocked by walls or other obstructions. ~~The required clearances shall be clearly marked on the transformer.~~ Transformer top surfaces that are horizontal and readily accessible shall be marked to prohibit storage.

## Delete Section 680.4 as follows (EL-23-19-24):

~~**680.4 Inspections After Installation.**~~

~~The authority having jurisdiction shall be permitted to require periodic inspection and testing.~~

## End of NFPA 70™ – *National Electrical Code*® 2023 amendments