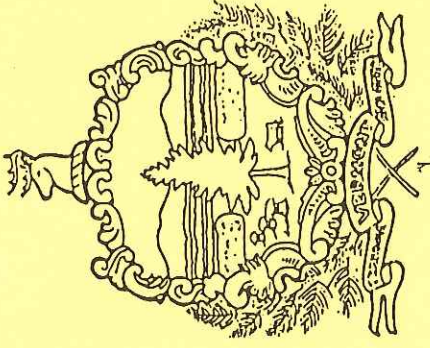


STATE OF VERMONT



1989
VERMONT FIRE PREVENTION
AND BUILDING CODE

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STATE OF VERMONT
VERMONT FIRE PREVENTION AND BUILDING CODE 1989

Section 1. Title

These rules are adopted under 21 V.S.A. Sections 252 and 262 and shall be know and cited as the 1989 Vermont Fire prevention and Building Code.

Section 2. Intent of Code

It is the intent of this Code to make rules regarding the construction of buildings, maintenance and operation of premises, and prevention of fires and removal of fire hazards and to prescribe standards necessary to protect the public, employees and property against harm arising out of or likely to arise out of fire.

Section 3. Scope and Construction

(a) The 1989 Vermont Fire Prevention and Building Code shall apply and control all matters concerning the construction, alteration, addition, repair, removal, demolition, use, location, occupancy and maintenance of all public buildings and premises and to all manufacturing, storage, handling, transportation and use of hazardous, explosive and flammable petroleum products. For purposes of this Code, the words public building, premises, structure, or any part thereof, shall be construed to be the same as that prescribed for "public building" in Title 21 V.S.A. Sec. 251(a) and "condominium" as prescribed in Title 21 V.S.A. Sec. 251(d). The definitions for "public building" and "condominium" are included in Appendix 2.

(b) The 1989 Vermont Fire Prevention and Building Code shall apply to new and existing buildings, premises, and their use, occupancy and maintenance except that existing or new buildings, premises and their use, occupancy and maintenance not in strict compliance with the material terms of this Code shall be permitted when, in the opinion of the Commissioner of Labor and Industry or a duly authorized representative, the exceptions do not constitute a distinct hazard to life or property.

(c) Nothing contained in the 1989 Vermont Fire Prevention and Building Code shall be construed as applying to the transportation of any article or thing shipped under the jurisdiction of and in compliance with the regulations prescribed by the United States Department of Transportation, or the Vermont Agency of Transportation with respect to placarding, nor as applying to the military forces of the United States.

(d) Nothing contained herein shall be construed to limit the authority of the Commissioner of Labor and Industry to establish priorities for enforcing these rules based on the relative risks to persons and property from fire of particular types of premises.

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

Section 4. Application for a Construction Permit

(a) Before a building or premises or an addition to a building or premises is constructed or erected, and before a building or premises is altered or relocated, or building equipment is installed therein, a construction permit shall be obtained from the Commissioner or a duly authorized representative. To obtain a construction permit an application for a construction permit shall be submitted to the Commissioner or a duly authorized representative. Plans and specifications relating to the work and equipment under consideration shall accompany the application unless specifically waived by the Commissioner or a duly authorized representative, based on the size, use, occupancy or complexity of the work. No plans or specifications need to be submitted for minor repairs. Applications for a construction permit are available from any office of the Department of Labor and Industry. An application form is included in Attachment 2.

(b) Plans required under this Code shall be drawn to scale and shall be sufficiently clear, comprehensive, detailed and legible when submitted to the Commissioner or a duly authorized representative so that, together with any accompanying specifications and data, a person who is competent in such matters can readily determine whether or not the proposed building, addition, or alteration, and all proposed building equipment will conform to this Code. Examples of information that should be included in the plans and specification are included in Attachment I.

(c) An application for a construction permit shall be determined to be complete prior to assignment for review.

(d) The Commissioner or a duly authorized representative shall review the application for a construction permit and the plans and specifications where applicable and shall issue or deny the application within a reasonable time after filing. The Commissioner or a duly authorized representative may require additional information before issuing or denying the application for a construction permit and may issue a conditional construction permit under specified terms and conditions. Conditions of the permit or reasons for denial of the permit shall be transmitted to the applicant in writing.

Appendix I - Asbestos

"The Vermont Department of Health regulates the removal of asbestos containing materials, as well as the training for persons who remove asbestos containing materials, in the Vermont regulations for Asbestos Control. For additional information, contact the Vermont Department of Health, Division of Environmental Health (1-800-439-8550).

(b) Where, pursuant to 21 V.S.A. Sec. 256, a municipality assumes responsibility for the enforcement of all or a part of these rules that would be subject to a fee for a construction permit (see Section 5) then the municipality may establish and collect reasonable fees for its own use and no fee for a construction permit will be charged for the benefit of the State.

(c) The Commissioner may require information from any municipality regarding building permits issued by the municipality.

(d) A fire prevention and building code adopted by any municipality shall be consistent with the standards adopted in Section 10 of these rules.

Section 15. Effective Dates

The 1983 Fire Prevention and Building Code of the State of Vermont shall be repealed upon the effective date of these rules.

These rules shall take effect September 1, 1989 and shall be known as the 1989 Vermont Fire Prevention and Building Code. Any building or premises upon which construction or renovation was begun within two years prior to the effective date of this Code or for which plans, drawings or specification were approved within three months of the effective date of this Code and which was in compliance with the 1983 Vermont Fire Prevention and Building Code shall be considered to be in compliance with the requirements for new construction under the 1989 Vermont Fire Prevention and Building Code. After completion such buildings or premises shall be maintained under the requirements for existing buildings under the 1989 Vermont Fire Prevention and Building Code.

Amended portions of the rules shall take effect June 1, 1992.

(e) An application for a construction permit for the installation of an aboveground or underground storage tank, or a pre-engineered chemical fire suppression system shall be reviewed by the Commissioner or a duly authorized representative. The applicant shall be notified only when violations are noted.

(f) The Commissioner or a duly authorized representative may provide consultation or preliminary plan review for proposed construction when deemed warranted by the significance or complexity of the project.

(g) The construction permit shall be posted on the site of operations in a conspicuous place open to public view during the entire time of construction and until completion of the project.

(h) Any information necessarily required by the Commissioner or a duly authorized representative which is identified as confidential, proprietary or trade secret, shall be so treated.

Section 5. Fees for a Construction Permit

(a) A properly completed application submitted for a construction permit shall be accompanied by the appropriate fee as established according to Title 21 V.S.A. Sec. 252(c). The application for a construction permit including plans and specifications will not be reviewed until the appropriate fee has been paid.

(b) The fee due based on the total valuation of the construction work to be done is \$4.75 per each \$1,000.00 of construction valuation. When an inspection is required due to the change in use of a public building the minimum fee shall be \$25.00. (Fees established by Legislature effective May 1, 1992)

(c) For purposes of assisting the Commissioner or a duly authorized representative in determining the validity of estimated valuation, reference may be made to the BOCA Building Valuation Data Report published by the Building Officials and Code Administrators (BOCA) International, Inc.

(d) No fee shall be charged for the benefit of the state if their municipality in which the building or structure is located has assumed responsibility for reviewing and approving construction plans and drawings pursuant to 21 V.S.A. Sec. 256.

(e) In the case of abandonment or discontinuance of a building project involving a construction permit fee greater than \$150 the construction permit fee may be refunded upon written request to the Commissioner, prorated on construction work, services, reviews, and inspections conducted prior to such abandonment.

Section 6. Use and Occupancy Permit

(a) A building or structure hereafter erected shall not be used or occupied in whole or in part until a permit for use and occupancy shall have been issued by the Commissioner or a duly authorized representative.

(b) A building or structure hereafter enlarged, extended or altered to change from one use group to another or to a different use within the same use group in whole or in part, and building for structure hereafter altered for which a permit for use and occupancy has not been heretofore issued, shall not be occupied or used until the permit shall have been issued by the Commissioner or a duly authorized representative.

1. In addition to those criteria established in Section 6(b) a place of assembly which changes ownership, or increases the occupant load, shall not be occupied or used until the permit shall have been issued by the Commissioner or a duly authorized representative.

(c) Before a use and occupancy permit is issued:

1. A final inspection shall be conducted by the Commissioner or duly authorized representative and the results shall be given to the owner in writing or;

2. At the discretion of the Commissioner or a duly authorized representative, a Completion Certificate shall be filed by the owner or a duly authorized representative certifying that the construction work was completed in accordance with the approved plans and specifications.

3. An aboveground or underground storage tank less than 2,000 gallon capacity, installed in accordance with this Code, or a pre-engineered chemical fire suppression system installed in accordance with this Code, may be used prior to obtaining a use and occupancy permit.

(d) Before a use and occupancy permit is issued, a building or structure and the building systems installed therein shall be in substantial compliance with all other codes administered by the Department of Labor and Industry.

(e) The Commissioner or a duly authorized representative may issue a temporary use and occupancy permit for a building or structure, or part thereof, before the entire work covered by the construction permit shall have been completed, providing that

(b) The applicant shall submit in writing the precise issue to be reconsidered, relevant plans, specifications, documents or any other arguments no later than 15 (fifteen) days after receiving written notification from the Department that violations of the Code exist.

(c) The Commissioner shall issue a written decision within 30 days after receipt of the request for reconsideration.

(d) A request for reconsideration shall in no way relieve a person from complying with this Code or any abatement previously set by the Department unless the Commissioner expressly authorizes an extension of abatement pending review of the request for reconsideration.

Section 13. Advisory Board

(a) Any person may request an interpretation of the application of this Code by the Department as it applies to using alternative or better means of construction, or materials or equipment, by making a request in writing to the Commissioner of Labor and Industry.

(b) The Commissioner of Labor and Industry may convene an Advisory Board to advise the Commissioner on technical matters pertaining to the interpretation.

(c) The Advisory Board shall consist of five members, one of whom shall be designated chairman by the Commissioner. Each member shall be appointed by and serve at the pleasure of the Commissioner; one member shall be a licensed professional engineer, one shall be a licensed architect, one shall be an experienced in building construction and one shall be an experienced fire service officer. The fifth member shall represent the Fire Prevention Division and supply support for the Advisory Board.

(d) A member of the Board shall not pass on any question in which that member is engaged as contractor or material dealer, or in the preparation of plans or specifications, or in which the member has any personal interest.

(e) Nothing contained in this section shall be construed to limit the authority of the Commissioner of Labor and Industry to grant or deny variances or exemptions pursuant to 21 V.S.A. Sec. 252(e) and these rules.

Section 14. Municipal Enforcement and Coordination

(a) The Commissioner may assign the responsibility for the enforcement of all or part of these rules to municipality which meets the qualifications established in 21 V.S.A. Sec. 256.

utilized to the extent necessary to effectuate the purpose of the adopted Articles, Sections and Chapters. References in this Code to the BOCA Building, Fire Prevention and Mechanical Codes shall be to the 1987 edition and its 1988 supplement.

Section 11. Variance Procedure

- (a) The owner or a duly authorized representative may ask for a variance from the requirements of this Code as it applies to a public building or premise, by submitting a request in writing to the Commissioner of Labor and Industry.
- (b) The owner or a duly authorized representative shall submit the following when requesting a variance:
 - 1) Evidence that the proposed or existing building or premise is not in compliance with the Code. A variance request will not be considered until plan review or inspection procedures have been completed by the Commissioner or a duly authorized representative.
 - 2) Evidence that strict compliance with the Code could entail practical difficulty, unnecessary hardship or is otherwise unwarranted.
 - 3) Evidence that the alternative proposed in lieu of the Code will provide equal protection of the public safety as provided by this Code. Properly completed evaluations in accordance with Article 32 of the BOCA Building Code or NFPA 101M of the National Fire Protection Association are examples of supporting evidence.

(c) The Commissioner may establish a Variance Review Panel consisting of Department staff to review variance requests, pertaining to 21 V.S.A. Section 252(e).

d) The Commissioner shall notify the applicant in writing whether the variance request has been granted or denied and of any conditions attached thereto.

e) A request for a variance relating to access to a public building for the physical handicapped shall be referred for decision to the Architectural Barrier Compliance Board established under Title 21 V.S.A. Section 271-277.

Section 12. Request for Reconsideration

(a) The owner or a duly authorized representative may request a reconsideration by the Commissioner where the applicant claims that the true intent of the Code or rules have been incorrectly interpreted or the provisions of the Code do not fully apply.

such portion or portions may be occupied safely prior to full completion of the building or structure without endangering life or public welfare.

(f) The Commissioner or a duly authorized representative may issue a temporary use and occupancy permit and assign dates for abatement of violations noted at the time of the final inspection provided that such violations do not endanger the public safety.

(g) The owner or a duly authorized representative shall provide written notice to the Commissioner or a duly authorized representative fifteen days prior to the desired use and occupancy of the building or structure.

(h) The Use and Occupancy Permit shall be posted on the site of operation in a conspicuous place open to public view.

Section 7. Responsibility of the Owner

Neither the issuance of a construction permit nor inspections made by the Commissioner or a duly authorized representative shall in any way relieve the owner of the public building or premise from full responsibility for having the work performed in accordance with the requirements of this Code.

Section 8. Duties of the Owner

The owner of the building or structure, or a duly authorized representative shall:

(a) Not build or maintain or cause to be built or maintained any public building or premises which is unsafe or is likely to be unsafe to persons or property.

(b) Observe these rules on all public buildings or premises under his/her control.

(c) Allow the Commissioner or a duly authorized representative to enter any public buildings or premises at any reasonable time for the purpose of administering or enforcing this Code.

(d) Obtain a construction permit from the Commissioner or a duly authorized representative for all construction under Section 4(e) of this Code for public buildings or premises prior to starting work at the building site.

(e) Obtain use and occupancy approval from the Commissioner or a duly authorized representative prior to any:

1. Occupancy of a building or part thereof after construction or alteration of that building or part, or;

2. Use of any building plant or equipment on the premises, or;
3. Change in the use and occupancy of any building or part thereof.

Section 9. Powers of the Commissioner of Labor and Industry

The Commissioner of Labor and Industry or a duly authorized representative may:

- (a) Enter any public building or premises for the purpose of administering or enforcing this Code.
- (b) In accordance with the provisions of 21 V.S.A. Sec. 253, order a building or premise or any part of it closed until any unsafe condition or violation of this Code is corrected. Where appropriate the Commissioner may order the demolition, removal, or fencing of any unsafe building or premises.
- (c) Cause a written notice to be delivered to the owner of any property directing him to correct any condition where, in the opinion of the Commissioner or a duly authorized representative, the condition constitutes a violation of this Code.
- (d) Order the owner to stop work on the building or premises if it is proceeding in contravention of this Code or if it is considered unsafe.
- (e) Direct that tests of materials, devices, or structural assemblies be made, or sufficient evidence or proof be submitted, at the expense of the owner, where the evidence or proof is necessary to determine whether the material, device or construction meets the requirements of this Code.
- (f) Revoke, amend, or refuse to issue a permit where, in the opinion of the Commissioner or a duly authorized representative, the results of tests referred to in subsection (e) of this section are not satisfactory.
- (g) Order the removal of any building or equipment erected be placed in violation of this Code.
- (h) Conduct investigations and inspections of any existing public building or premises in response to any complaint regarding safety to the public.
- (i) Conduct routine, random, or regular inspections of public buildings or premises based on the relative risk to persons and property from fire of particular types of premises.

~~Section 17-3-4.4. Detection, exception~~
~~delete and replace as follows-~~

~~Section 20-3-1.1 Exception~~
~~20-3-1.1 Exception: In buildings three stories or less in height, protected throughout by an approved automatic sprinkler system installed in accordance with Section 20-3.5.1, unprotected vertical openings are permitted.~~

~~delete and replace as follows-~~
~~Section 22-1.1.1 One and two family dwellings~~

~~22-1.1.1 One and two family dwellings: This chapter establishes life safety requirements for all one and two family dwellings. One and two-family dwellings include buildings containing not more than two dwelling units in which each living unit is occupied by members of a single family with no more than six outsiders, if any, accommodated in rented rooms.~~

~~delete in part and replace as follows - Appendix B~~
~~NFPA #68 1988 guide for Venting of Deflagrations.~~

(b) The term "Fire Official," "Code Official," "Authority Having Jurisdiction" and all similar terms used in the BOCA Building Code, the BOCA Fire Prevention Code and the Life Safety Code, shall mean the Commissioner of Labor and Industry or duly authorized representative. If the Commissioner of Labor and Industry has assigned responsibility for municipal enforcement pursuant to 21 V.S.A. Section 256, those similar terms shall be the qualified official(s) appointed by the municipality to enforce the rules and standards of this code.

(c) The deletion of certain articles and Sections of the BOCA Building Code, the BOCA Fire Prevention Code and the Life Safety Code has been necessary to ensure consistency with existing regulatory authority. The failure to incorporate these codes in their entirety should not be construed to minimize the value of these Codes as effective standards with current technology.

(d) The application of the BOCA Building Code, the BOCA Fire Prevention Code and the Life Safety Code has been designed to minimize conflicts between the Codes, however, where conflicts occur between the Codes in the areas of egress, fire protection systems and similar Life Safety requirements, the standards of the Life Safety Code shall apply; and where conflicts occur between the codes in the area of fire resistive construction, height and area limitations, and similar building construction requirements, the standards of the BOCA Building Code shall apply.

(e) Provisions and appendices which are referred to in the adopted Articles, Sections and Chapters including the BOCA Mechanical Code, 1987 edition and its 1988 supplement, shall be

~~-delete and replace as follows - Section 7-4.2~~
7-4.2 Except as modified herein, new elevators, escalators, dumbwaiters, and moving walks shall be installed in accordance with the requirements of all sections of ANSI/ASME A17.1, Safety Code for Elevators and Escalators which contains requirements relative to fire safety and/or barrier free access.

~~-delete and replace as follows - Section 7-4.3~~
7-4.3 Except as modified herein, existing elevators, escalators, dumbwaiters, and moving walks shall conform to the requirements of all sections of ANSI/ASME A17.3 Safety Code for Existing Elevators and Escalators which contains requirements relative to fire safety and/or barrier free access.

~~-delete in part and replace as follows - Section 7-7.1.1~~
Exception

7-7.1.1 Exception: NFPA 13R 1988 edition, may be used in facilities having less than 30 occupants as required in Chapters 11, 17, 20 and 21, and may be used where buildings are not greater than four stories in height as required in Chapters 18, 19, 22.

~~-delete and replace as follows - Section 7-7.1.2 Limited Area~~
Sprinklers

7-7.1.2 Limited Areas Sprinklers: Sprinkler piping serving not more than six sprinklers for any isolated hazardous area may be connected directly to domestic water supply system having a capacity sufficient to provide 0.15 gallon per minute per square foot of floor area throughout the entire enclosed area. Shut off valves shall not be permitted in sprinkler system piping.

~~-delete in part-Table 10-7.1.6.1 Height and Construction Limits for day care centers for type "III (200)" and "V(000)"~~
Delete the " " designation under "1" stories for age group #0 through 5"

~~-delete and replace as follows - Section 10-8.1.1.2 Group day care home~~
10-8.1.1.2 Group day care home: The requirements detailed in Section 10-8 are based on a minimum staff to client ratio of two staff for up to 12 children with no more than 5 children under age two.

~~-delete in part - Table 11-7.1.6.1 Height and Construction Limits for day care centers for type "III (200)" and "V(000)"~~
Delete the " " designation under "1" stories for age group #0 through 5"

(j) Pursuant to 21 V.S.A. Sec. 256, enter into agreements with municipalities to enforce this Code.

Section 10. Adoption of Nationally Recognized Safety Standards

(a) The Commissioner of Labor and Industry, for the purpose of making rules regarding the construction of buildings, maintenance and operation of premises, prevention of fires, removal of fire hazards, and prescribing standards necessary to protect the public, employees, and property against harm arising out of or likely to arise out of fire, adopts the following nationally recognized safety standards:

1. The BOCA National Building Code, 1987 edition and its 1988 Supplement (hereinafter noted as the BOCA Building Code), except as amended, altered, deleted or added to in this Section, shall apply to all construction, additions and alterations to all public buildings, and also to structural conditions hazardous to life in all existing public buildings. To meet the individual needs of Vermont, the BOCA Building Code is amended as follows:

Note: These rules should be read in conjunction with: The BOCA National Building Code, 1987 edition and its 1988 Supplement; The BOCA National Fire Prevention Code, 1987 edition and its 1988 Supplement; and, The Life Safety Code, 1988.

~~-delete-~~
Section 100. Scope

~~-delete-~~
Section 101. Applicability

~~-delete-~~
Section 103.2 Change in use or occupancy without structural alterations shall be subject to the provision of the Life Safety Code.

~~-delete-~~
Section 103.4. Rehabilitation

~~-delete and replace as follows - Section 108.1 Professional, Architectural, and Engineering Services, when required~~
108.1 Architectural and Engineering Services, when required: Acceptance or rejection by the Department, of plans or specifications submitted for review is not intended to imply compliance or non-compliance with Vermont licensing laws (26 V.S.A. Chapter 3 and 26 V.S.A. Chapter 20). Where required by the size, height, use or complexity of the project and where needed to insure the public safety, the Commissioner or a duly authorized representative, may require that plans or engineering details be submitted by a licensed professional engineer or architect.

Examples of projects that may require plans to be submitted by a licensed professional engineer or architect include:

- a) hospitals, b) schools, c) jails, or d) public utilities.

Examples of projects that may require engineering details to be submitted by a licensed professional engineer include:

- 1) projects where mechanical systems carry hazardous materials,
- 2) multi-story projects of steel and concrete construction, or
- 3) canopies supported by a single column.

These projects are listed solely as examples and are in no way intended to limit the Commissioner's authority to request that a licensed professional engineer or architect submit more detailed plans where needed to insure the public safety.

- delete- Section 109.1 Code Official
- delete- Section 109.2 Appointment
- delete- Section 109.3 Organization
- delete- Section 109.4 Deputy
- delete- Section 110.6 Rulemaking authority
- delete and replace as follows - Section 111.5 Plans and Specifications:
111.5 Plans and specifications: The application for the permit shall be accompanied by at least one copy of the specifications and plans drawn to scale, with sufficient clarity and detailed dimensions to show the nature and character of the work to be performed. Additional copies of specifications and plans shall be submitted upon request of the Commissioner or a duly authorized representative.
- delete- Section 111.6.1 Private sewage disposal system
- delete- Section 112.5 Approved plans
- delete- Section 114.3 New construction and alteration
- delete- Section 114.3.1 Fee schedule
- delete- Section 114.4 Accounting

Section F2500.2 Permit required for cryogenic liquids

-delete- Section F2600.2 Permit required for explosives

-delete- Section F2600.2.1 Prohibited permits for explosives

-delete- Section F2600.3 Bond required for blasting

-delete- Section F270.2 Permit required for fireworks

-add new section-
Section F2800.1.1 Storage of flammable liquids on farms and construction projects and handling leakage from underground storage tanks.

F2800.1.1 Storage of flammable liquids on farms and construction projects and handling leakage from underground storage tanks: The provisions of NPPA 329, 1987 edition and NPPA 395, 1988 edition shall apply when the provisions of this article do not specifically cover conditions and operations.

-delete- Section F2900.2 Permit required for hazardous materials

-delete and replace as follows -
Section F3000.3 Record of installation

F3000.3 Record of installation: Installers shall maintain a record of all installations for which a permit is not required by Section F-3000.2 (but not including replacing of portable cylinders) and have it available for inspection by the code official.

-add new section-
Section F3000.5 Installation of LP Gas

F3000.5 Installation of LP Gas: Effective July 1, 1991, all LP gas installation, repair and maintenance governed by this Code shall be completed by persons who have successfully completed a related course of study sponsored by the National Propane Gas Association and has received the certification for installation and service technician from Murray State University.

-delete in part and replace as follows - Appendix A
NPPA 54 National Fuel Gas Code 1988 edition

3) NPPA 101, The Code for Safety to Life from Fire in Buildings and Structures 1988 edition (hereinafter noted as the Life Safety Code), except as amended, altered, deleted or added to in this section shall apply to all conditions affecting safety in new and existing public buildings and shall apply to the change of use of existing buildings. To meet the individual needs of Vermont, the Life Safety Code is amended as follows:

Chapter 15.

- b. For fire sprinkler systems, standpipes, and fire pumps - those persons meeting the qualifications established in Section 1004.3.1. and/or Section 1005.3.1.
- c. For fire suppression systems other than fire sprinkler systems - those persons passing the appropriate examination for fire suppression from the National Institute for Certificate in Engineering Technologies, persons certified through similar programs and persons demonstrating competency and experience in the testing of fire suppression system through training by the manufacturer of such systems, as acceptable to the Commissioner or a duly authorized representative.

-delete-
Section F1400.2 Permit required for fumigation and thermal insecticide fogging

-delete-
Article 16 Oil and gas production
-delete and replace as follows - Section F1801.1 General fab areas

F1801.1 General fab areas: Fab areas in buildings and structures of new construction and those buildings and structures with a change of use group classification shall comply with the requirements of the building code listed in Appendix A for H.P.M. use facilities.

-delete and replace as follows - Section F1804.1 Existing buildings

F1804.1 Existing Buildings: When there are alterations or modifications to existing fab areas, transportation shall not be permitted in a means of egress unless the means of egress complies with Section F1804.2 through F1804.3 and Section 603.2 of the building code listed in Appendix A for H.P.M. use facilities.

-add new section-

Section F1904.10 Automatic fire suppression
F1904.10 Automatic Fire Suppression: An approved automatic suppression system shall be provided to protect all self-service fuel dispensing areas.

-delete-
Section F2100.2 Permit required for junkyards

-delete-
Section F2200.2 Permit required for welding operations

-delete-
Section F2300.2 Permit required for storage of combustible fibers
-delete-

-delete-
Section 114.5 Refunds
-delete-
Section 115.2 Required inspections
-delete-
Section 115.3 Final inspections
-delete-
Section 117.4 Violation penalties
-delete-
Section 118.2 Unlawful continuance
-delete-
Section 120.2 Examination and record of damaged structure
-delete-
Section 122.4 Periodic inspections
-delete-
Section 123 Board of Survey
-delete-
Section 124 Means of Appeal

-delete and replace as follows - Section 201 Mezzanines
201 Mezzanines: An intermediate level between the floor and the ceiling of any room or space and covering not more than one third of the floor area of the room or space in which it is located.

-delete and replace as follows - Section 304.1.1 Day care facilities

304.1.1 Day care facilities: A day care facility which provides care for more than twelve persons more than two years of age for less than 24 hours per day, is not otherwise classified as I-2, and where children less than two years of age are cared for on the first story shall be classified as Use Group E.

-delete and replace as follows - Section 307.3.1 Child care facility

307.3.1 Child care facility: A child care facility which accommodates more than five children less than two years of age shall be classified as Use Group I-2.

-delete and replace as follows - Section 309.4.1 Child care facilities

309.4.1 Child care facilities: A child care facility which accommodates twelve or fewer children, is not otherwise classified as I-2, and where children less than two years of age are cared for on the first story shall be classified as Use Group R-3.

-amend in part - Table 401 Fire resistance ratings of structure elements.

Table 401 Fire resistance ratings of structure elements

- new section added - Section 502.2.1 Water Supply
502.2.1 Water Supply: Street frontage increase shall only be allowed to modify the area limits of Table 501 when the water supply for fire protection is available in a quantity and rate of flow as determined by NFPA 1231 Suburban and Rural Firefighting (1989 Edition). Chapter 5 shall be used in determining the minimum water supply quantity and flow rate and Chapter 6 for the water supply source.
- delete and replace as follows - Section 512 Physically handicapped and aged
512 Physically handicapped and aged: Barrier Free Access to Public Buildings shall be provided for as required in the State of Vermont Rules Governing Access to Public Buildings and Facilities by Persons with Physically Disabilities - effective 8/17/88.
- delete and replace as follows - Section 605.2 Area limit
605.2 Area: The aggregate area of a mezzanine or mezzanines within a room or space shall not exceed one-third of the area of that room or space.
- delete-
Section 623 Radio and television towers
- delete-
Section 624 Radio and television antenna
- delete-
Section 625 Swimming pools
- delete-
Article 7 Interior Environmental Requirements
- new Section added -
Section 1004.1.1 Alternate Water Sprinkler Systems
1004.1.1 Alternate Water Sprinkler Systems: Water sprinkler systems for existing buildings requiring sprinkler protection due to a change in use or alterations, that are of Use Group classification E, I-1, I-2 Child Care Facility, and R-1, and are designed for less than 30 occupants, and buildings of Use Group Classification R-2 and R-3 not greater than 4 stories in height may install the water sprinkler system in accordance with NFPA 13R, 1988 edition.

- delete-
Section F104 Means of Appeal
- delete-
Section F105.3.2 Unlawful continuance
- delete-
Section F105.5 Failure to correct violations
- delete-
Section F105.5.1 Penalty for violations
- delete-
Section F301 Open Burning
- delete-
Section F303.2 Permit required for removing paint
- delete-
Section F305.2 Permit required for storage of materials
- delete-
Section F308.2.1 Unauthorized seal of removal
- delete and replace as follows - Section F309.2 Hood Systems Suppression
F309.2 Hood Systems Suppressions: Each existing required commercial kitchen exhaust hood and duct system shall be protected with an approved automatic fire suppression system protected with an approved automatic fire suppression system installed in accordance with NFPA 96 (1987 edition).
- delete in part-
Section F400.2 Application of other codes
...plumbing...
- delete and replace as follows- F503.1 Periodic Inspection and Test
Inspections and field tests of fire suppression, alarm, detection and any other fire protection systems, devices and equipment shall be conducted for the owner by a technically qualified person as herein required. A written inspection report shall be filed with the code official upon completion of each inspection.
F503.1.1 Proof of Inspection: Proof of inspection, approved by the Department, shall be affixed by a technically qualified person to the control panel or control valve of the fire protection system after the required inspection has been completed as evidence of that inspection. The proof of inspection fee for fire suppression, alarm, detection and any other fire protection systems shall be \$10.00.
F503.1.2 Technically qualified person: Periodic inspection and test of fire protection systems as required by F503.1 shall be conducted by a technically qualified person as listed below:
a. For fire alarm and detection systems - an electrician appropriately licensed under 26 V.S.A.

- new Section added - Section 1004.3.1
Section 1004.3.1 Effective July 1, 1991, the required fire sprinkler system plans, calculations, design, installation and acceptance testing shall be accomplished by a person passing the examination for Level III certification for automatic sprinkler system layout from the National Institute for Certification in Engineering Technologies.
Exception: Installation and acceptance testing may be accomplished by a person passing the examination for, or completing, an approved sprinkler apprenticeship program or meeting the testing requirements of the National Assessment Institute.
- new Section added - Section 1005.3.1
Section 1005.3.1 Effective July 1, 1991, limited area fire sprinkler systems plans, calculations, design, installation and acceptance testing shall be accomplished by a person passing the examination for Level II certification for automatic sprinkler system layout from the National Institute for Certification in Engineering Technologies.
Exception: Installation and acceptance testing may be accomplished by persons meeting the qualifications established by 1004.3.1 and by persons demonstrating competency and experience in the installation and testing of fire sprinkler systems as acceptable to the Commissioner or a duly authorized representative.
- delete and replace as follows - Section 1021.2 Where fire extinguishers are required
1021.2 Where fire extinguishers are required: Portable fire extinguishers shall be selected, installed, located, inspected and maintained in accordance NFPA 10 listed in Appendix A, in all buildings and structures subject to this Code.
- delete and replace as follows - Section 1111.2 Ground snow loads
1111.2 Ground snow loads: Ground snow loads to be used in determining the design snow loads for roofs are given on the map indicated as Appendix 1.
- add new section - Section 1111.4.1 Minimum snow load
1111.4.1 Minimum snow load: The resultant flat roof snow load of psf shall not be less than 40 psf.
- delete-
Section 2103 Rat proofing
-delete and replace as follows - Section 2500.2 Mechanical Code
2500.2 Mechanical Code: All mechanical equipment and systems shall be constructed, installed and maintained in accordance with the BOCA Mechanical Code, Articles 2, 3, 4, 6, 8, 9, 10, 11, 12, 14, 15 & 20.

- delete and replace as follows - Article 31 Energy Conservation
Article 31 Energy Conservation: New publicly funded buildings, paid for in whole or in part with federal, state, or municipal monies, shall be constructed to meet the standards for exterior envelope design contained in Energy Conservation in New Building Design published by the American Society of Heating, Refrigeration and Air Conditioning Engineers (A.S.H.R.A.E. 90-80) 1980, unless a condition of some other state or local permit, more stringent standards are required. All plans for new publicly funded buildings shall contain an express certification that these standards will be met.
- delete and replace as follows - Section 3200.1 Scope
3200.1 Scope: The Commissioner may choose to apply the provisions of this Article to alterations, additions, or changes to existing buildings without full compliance with the provisions of the Vermont Fire Prevention and Building Code of 1989 when, in the opinion of the Commissioner, there is not a distinct hazard to life or property. Unless the Commissioner expressly authorizes the application of the Article, all other provisions of the Vermont Fire Prevention and Building Code of 1989 must be met.
- delete in part and replace as follows - Appendix A
NFPA #10 Portable Fire Extinguishers 1988 edition.
-delete in part and replace as follows - Appendix A
NFPA #11 Low Expansion Foam and Combined Agent Systems 1988 edition.
-delete in part and replace as follows - Appendix A
NFPA #12 Carbon Dioxide Extinguishing Systems 1988 edition.
2. The BOCA National Fire Prevention Code, 1987 edition and its 1988 supplement (hereinafter noted as the BOCA Fire Prevention Code), except as amended, altered, deleted or added to in this section shall apply to the storage, handling or use of materials and to conditions hazardous to life and property in all new and existing buildings. To meet the individual needs of Vermont, the BOCA Fire Prevention Code is amended as follows:
-delete-
Section F100.1 Title
-delete-
Section F101 Applicability
-delete-
Section F102.2 Inspections
-delete-
Section F102.3 Investigation of Fires
-delete-
Section F102.4 Fire Records

-add new section - Section 2500.3 Commercial cooking equipment
2500.3 Commercial cooking equipment: All kitchen exhaust systems for commercial cooking equipment shall be constructed, installed and maintained in accordance with NFPA 96 (1987 Edition) Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment.

-add new section - Section 2500.4 Installation of fuel gas systems

2500.4 Installation of fuel gas systems: All fuel gas systems shall be designed, constructed, installed and maintained in accordance with BOCA Mechanical Code Article 8. The provisions of NFPA 54, 1988 edition shall apply when the provisions of BOCA Mechanical Code Article 8 do not specifically cover conditions and operations.

-add new section - Section 2500.4.1 Fuel gas installation

2500.4.1 Fuel gas installation: Effective July 1, 1991, all fuel gas installations, repair and maintenance governed by this Code shall be accomplished by persons who have successfully completed the American Gas Association course of study including "The Fundamentals of Combustion, Gas Appliance Venting, Electricity, Gas Controls, and Gas Appliances."

-delete and replace as follows - Section 2600.2 Reference standard

2600.2 Referenced standard: The construction, alteration, maintenance, operation, inspections, and test of elevators, escalators, dumb-walters, moving walks, material lifts, wheelchair lifts and stairway chair lifts shall conform to all sections of (ASME) ANSI A17.1 which contains requirements relative to fire safety and/or barrier free access. All references in this and other sections of this Code to (ASME) ANSI A17.1 listed in Appendix A shall be for the 1987 edition.

-delete-
Section 2602.5.3 Manlifts

-delete and replace as follows - Section 2605 Existing installations

2605 Existing installations: All existing installations shall be constructed, altered, maintained, operated, inspected, and tested in accordance with all sections of (ASME) ANSI A17.3 1986 edition which contains requirements relative to fire safety and/or barrier free access. For elevators installed prior to January 1, 1956, the effective date for compliance with this Section shall be July 1, 1991.

-delete-
Section 2613 Manlifts

-delete-
Section 2614 Industrial lifts and loading ramps

-delete-
Section 2615 Automotive lifts

-delete-
Section 2616.3 Machinery guards

-delete and replace as follows - Section 2700.1 Electrical wiring scope

2700.1 Electrical wiring scope: The provisions of this article shall control the design and construction of all new installations of electrical conductors, equipment and systems in buildings or structures; and all alterations to existing wiring system therein to insure safety. All such installations shall conform to the provisions of NFPA 70, The National Electrical Code, as adopted by the Electricians' Licensing Board.

-delete-
Section 2701.2.8 Illumination for toilets and bathrooms

-delete-
Section 2704.3 Annual permit

-delete-
Section 2704.4 Annual records

-delete and replace as follows - Article 28 Plumbing systems
Article 28 Plumbing systems shall be in accordance with the rules adopted by the Plumbers Examining Board.

-delete-
Article 29 Signs

-delete-
Section 3002.2 - Unsafe equipment;
Section 3003.3 - Pedestrian equipment;

Section 3010.4 - Pedestrian walkways;
Section 3011 - Removal of waste materials;

Section 3013.4 - Guards;
Section 3014 - Scaffolds;

Section 3015 - Hoists;
Section 3016.2 - Ladders;

Section 3018.3 - Steam Boilers;
Section 3019 - Health Hazards; and,
Section 3021 - Sanitation

Notes: Where required safety at building and construction sites shall be in accordance with the Rules for Occupational safety and health, adopted by the Department of Labor and Industry (VOSHMA).