

DEPARTMENT OF ADMINISTRATIVE SERVICES

2018 Connecticut State Fire Prevention Code

**DIVISION OF
CONSTRUCTION SERVICES**
Office of the State Fire Marshal

450 Columbus Boulevard
Hartford, CT 06103

MELODY A. CURREY
Commissioner

WILLIAM ABBOTT
State Fire Marshal



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FOR PUBLIC COMMENT
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Part I - Administrative

Sec. 100 Title, Administration, and Applicability

Sec. 100.1 The Connecticut State Fire Prevention Code and the adopted standards, as amended, shall be known as the Connecticut State Fire Safety Prevention, hereinafter referred to as “the code” or “this code”.

Sec. 100.2 If a section, subsection, sentence, clause or phrase of this code is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this code.

Sec. 100.3 In the event 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 hereof, which are determined to be legal; and it shall be presumed that this code would have been adopted without such illegal or invalid parts or provisions.

Sec. 100.4 This code and its referenced standards shall be administered as provided in Chapter 541 of the Connecticut General Statutes.

Sec. 100.5 The provisions of this code shall not apply to detached one- and two-family dwellings nor to multiple single-family dwellings attached side-by-side (townhouse) not more than three stories in height with each dwelling having a separate means of egress.

Sec. 100.6 The provisions of the code shall only apply to detached private dwellings occupied by one or two families and townhouses with respect to smoke alarms and carbon monoxide detectors as specified in the State Building Code and subject to the specific inspection criteria for smoke detection and warning equipment of Section 29-305 of the Connecticut General Statutes.

Sec. 100.7 Buildings designed, constructed and occupied in accordance with the provisions of the 2015 International Residential Code portion of the State Building Code, including tents and membrane structures, shall be deemed single-family dwellings for the application of this code and section 29-305 of the Connecticut General Statutes.

Sec. 100.8 This code shall not apply to portable grandstand and bleachers providing seating for fewer than 100 persons located outside of a building.

Sec. 100.9 The provisions of this code shall not apply to any federal agency performing construction or operating on federally owned land or on leased land totally under the control of the federal government.

Sec. 100.9 Public service companies. This code shall not apply to the installation, alteration or repair of generation, transmission, distribution, metering or other related equipment that is under the ownership and control of public service companies as defined by section 16-1 of the Connecticut General Statutes.

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Sec. 100.10 Where an area addressed in this code pertains to a construction feature, the Connecticut State Fire Safety Code shall prevail. Where the CSFSC or SBC are silent on an issue, the provisions of this code shall apply

Sec. 100.11 No person shall remove or modify any fire protection system installed or maintained under the provisions of the CSFSC or the SBC, unless otherwise permitted by those codes. Buildings and structures, and parts thereof, shall be maintained in a safe condition. Devices or safeguards required by the CSFSC or the SBC shall be maintained to provide the level of protection to which they were designed in conformance with the code edition under which installed.

Sec. 101.1. Scope of this Code

- (a) The scope includes, but is not limited to, the following:
- (1) Inspections of permanent and temporary buildings, processes, equipment, systems and other fire and related life safety situations.
 - (2) Review of design and construction plans, drawings, and specifications for life safety systems, fire protection systems, access, water supplies, processes, and hazardous materials and other fire and life safety issues.
 - (3) Fire and life safety education of fire brigades, employees, responsible parties and the general public.
 - (4) New and existing occupancies and conditions.
 - (5) Access requirements for fire department operations.
 - (6) Hazards from outside fires in vegetation, trash, building debris and other materials.
 - (7) Regulation and control of special events, including, but not limited to, assemblage of people, exhibits, trade shows, amusement parks, haunted houses, outdoor events and other similar special temporary and permanent occupancies.
 - (8) Interior finish, decorations, furnishings, and other combustibles that contribute to fire spread, fire load and smoke production.
 - (9) Storage, use, processing, handling, and on-site transportation of flammable and combustible gases, liquids and solids.
 - (10) Storage, use, processing, handling and on-site transportation of hazardous materials.
 - (11) Conditions affecting fire fighter safety.
- (b) Provisions in excess of code requirements. Nothing in this code shall be construed to prohibit a better type of building construction, an additional means of egress, or an otherwise safer condition than that specified by the minimum requirements of this code.

Sec. 102.1 Authority Having Jurisdiction, Review of Decision

- (a) For the purposes of this code adopted pursuant to section 29-291a of the Connecticut General Statutes, the authority having jurisdiction (AHJ) shall mean the State Fire Marshal regarding the proper administration, application, interpretation and modification of the requirements contained within.
- (b) The local fire marshal shall make the initial determination concerning compliance with the provisions of this code, except as expressly provided in the wording of a section or in sections 102.1 (c) and (d) below. Upon request, the initial determination of a local fire marshal may be reviewed by the State Fire Marshal.

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- (c) The State Fire Marshal shall make the determination concerning compliance with this code on state-owned property.
- (d) Where this code enables a local municipality or fire district to adopt a portion of this code by local ordinance as permitted by section 7-148 of the Connecticut General Statutes, the local fire marshal having jurisdiction shall be deemed the authority having jurisdiction. Any decision made by any such authority pursuant to a local ordinance may not be appealed to the State Fire Marshal.
- (e) A decision of the local fire marshal may be reviewed by the State Fire Marshal in accordance with section 29-291d of the Connecticut General Statutes.

Sec. 103.1 Variations or Exemptions

Buildings, facilities or properties with equivalencies, alternatives or modifications accepted by the State Fire Marshal pursuant to section 29-291b of the Connecticut General Statutes shall be considered as conforming to this code.

Sec. 104.1 Abatement of Hazards; Penalty

(a) The local fire marshal for their respective jurisdictions or State Fire Marshal shall order hazardous conditions contrary to the provisions of this code to be remedied in accordance with section 29-291c of the Connecticut General Statutes. An order to vacate all or part of a building may be issued by a local fire marshal or local police officer in accordance with section 29-306 of the Connecticut General Statutes when severe hazardous conditions exist. The penalty for the failure to remedy or abate such hazards shall be as described in sections 29-291c and 29-295 of the Connecticut General Statutes as appropriate.

(b) Pursuant to section 29-291c of the Connecticut General Statutes, section 108 of this code lists those sections of this code for which a citation may be issued.

Sec. 105.1 Inspections, Plan Submittals

(a) Each local fire marshal, the State Fire Marshal and their respective designees shall conduct inspections as prescribed in Section 29-305 of the Connecticut General Statutes of buildings, processes, and facilities regulated by this code within their jurisdictions.

(b) The minimum requirements for the frequency of inspections conducted pursuant to section 29-305 of the Connecticut General Statutes shall be as follows: (Note: Definitions of classifications are found in the Connecticut State Fire Safety Code.)

- (1) Annual inspections for the occupancy classifications; all R Residential, Small I-2 Homes, A-1, A-2, E, H-1 and I-1.
- (2) Inspections every two years for the occupancy classifications; A-3, H-2, I-2, I-3, I-4, B-Medical and B-College.
- (3) Inspections every three years for occupancy classifications; B, H-3, M, S-1, A-4 and A-5.

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(4) Inspections every four years for the occupancy classifications; F-1, F-2, H-4, H-5, S-2 and U.

(c) Each local fire marshal, the State Fire Marshal and their respective designees may conduct inspections as often as may be necessary during the construction of new buildings, structures or additions regulated by this code and during the course of renovations, alterations or modernizations to existing buildings and structures for the purpose of satisfying themselves that all work is in accordance with the approved plans and specifications and this code.

(d) Detailed plans and specifications for new structures and additions, renovations or alterations to existing structures shall be submitted by the permit applicant to the local fire marshal having jurisdiction to demonstrate compliance with section 29-263 of the Connecticut General Statutes.

(e) Each local fire marshal, the State Fire Marshal and their respective designees may conduct inspections as often as may be necessary during the construction or addition of new processes and material handling regulated by this code and during the course of renovations, alterations or modernizations to existing processes and material handling for the purpose of satisfying themselves that all work is in accordance with the approved plans and specifications and this code.

(f) Detailed plans and specifications for new processes and material handling regulated by this code, renovations or alterations to existing processes or material handling shall be submitted by the applicant to the local fire marshal having jurisdiction to demonstrate compliance with this code and section 29-263 of the Connecticut General Statutes.

(g) A municipality or fire district may, by ordinance, establish a fee for construction document review conducted pursuant to subsection (d) or (f) of this section, provided the municipality or fire district prescribes the manner in which this schedule of fees shall be posted for public view.

Sec. 106.1 Adopted Standard

The following standard promulgated by the National Fire Protection Association (NFPA) is hereby adopted as part of this code.

NFPA 1, Fire Code™ of the National Fire Protection Association, (NFPA 1), 2015 edition, with relevant appendices, except as amended, altered or deleted and by the addition of certain provisions as indicated in section 107.1 of this code.

This standard is available from the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts 02269; telephone 1-800-344-3555, www.nfpa.org.

Sec. 107.1 Connecticut Amendments

The amended, altered or deleted, and by the addition of certain provisions of NFPA 1™, Fire Code is found in Part II of this code.

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107.2 Connecticut Amendment conventions. The model code adopted in Part I section 107 of this code is amended to meet the needs of the State of Connecticut as identified by the following conventions:

- (a) A section or subsection in the Connecticut Amendments preceded by “Amd” indicates the substitution of this provision.
- (b) A section or subsection in the Connecticut Amendments preceded by “Del” indicates the deletion of this provision.
- (c) A section or subsection in the Connecticut Amendments preceded by “Add” indicates the addition of this provision.

Sec. 108 Enforcement by Citations.

The following chapters or sections of this code may be enforced through the use of the citation process pursuant to section 29-291c of the Connecticut General Statutes.

<u>Chapter /Section</u>	<u>Subject Matter</u>
Section 1.12	Operating without a permit required by local ordinance
Section 10.13.9	Provisions for naturally cut (Christmas) trees
Sections 10.7, 13.1.7	Failure to maintain or the shutting off of any fire protection or fire warning system required by the Connecticut State Fire Safety Code
Sections 14.4.1, 14.4.3, 14.4.3.1	Blocked, insufficient or impeded egress
Chapter 16	Safeguards during building construction, alteration, and demolition operations
Section 20.1.5.10.4	Exceeding the established occupancy limit- assembly occupancies
Section 20.12.5	Storage and display of sparklers and fountains
Chapter 41	Hot work operations
Section 50.5	Procedures for use and maintenance of commercial cooking equipment
Section 65.10.1.3	Retail sales of consumer fireworks limited to mercantile occupancies

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Part II – Connecticut Amendments to NFPA 1™, Fire Code; 2015 edition

Chapter 1

Administration

(Del) **1.1.1** Delete section.

(Del) **1.1.2 Title.** Delete section.

(Add) **1.3.3.3** References to NFPA 101®, Life Safety Code®, within the body of the model document shall be considered references to the Connecticut State Fire Safety Code (CSFC)

(Add) **1.3.3.4** References to the NFPA 5000®, Building Construction and Safety Code® or The Building Code within the body of the model document shall be considered references to the State Building Code (SBC).

(Add) **1.3.3.5** References to New Occupancies or New Occupancy Chapters of NFPA 101®, Life Safety Code®, within the body of the model document shall be considered references to the CSFC Part III and the SBC for new occupancies.

(Amd) **1.3.5 Vehicles and Vessels.** Vehicles, vessels or other similar conveyances in fixed locations and occupied as buildings, as described in the CSFSC, shall be treated as buildings and comply with this code.

(Amd) **1.3.6.3** Repairs, renovations, alterations, reconstruction, change of occupancy and additions to buildings shall conform to the CSFSC and the SBC.

(Del) **1.4.2 Alternatives.** Delete section.

(Del) **1.4.3 Modifications.** Delete section.

(Del) **1.4.4** Delete section.

(Del) **1.6 Enforcement.** Delete section.

(Del) **1.7.3 Interpretations.** Delete section.

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(Amd) **1.7.4 Enforcement Assistance.** The State Fire Marshal or local fire marshal may accept reports of the building official concerning a code compliance review or inspection in lieu of conducting the review or inspection personally.

(Del) **1.7.5 Delegation of Authority.** Delete section.

(Del) **1.7.6 Reliance on Other Enforcement Officials.** Delete section.

(Del) **1.7.7 Inspections.** Delete section.

(Del) **1.7.8** Delete section.

(Del) **1.7.9 Interference with Enforcement.** Delete section.

(Del) **1.7.10 Impersonation.** Delete section.

(Del) **1.7.11 Investigation.** Delete section.

(Del) **1.7.12 Plans and Specification.** Delete section.

(Del) **1.7.14 Certificate of Occupancy.** Delete section.

(Del) **1.7.16 Imminent Dangers and Evacuations.** Delete section.

(Add) **1.7.16 Imminent Dangers and Evacuations.** Refer to section 29-306 of the Connecticut General Statutes.

(Del) **1.8 Duties and Powers of the Incident Commander.** Delete section.

(Del) **1.10 Fire Code Board of Appeals.** Delete section.

(Del) **1.11.3 Emergency Response Records.** Delete section.

(Amd) **1.12.1** A municipality or fire district, by ordinance, may establish requirements and a fee schedule for permits, certificates, notices, approvals, or orders pertaining to fire control and fire hazards pursuant to section 1.12 of this code. The local fire marshal shall issue such permits, certificates, notices, approvals or orders.

(Amd) **1.12.8** Permits as specified by the ordinance shall be required in accordance with Table 1.12.8(a).

(Amd) **Table 1.12.8(a) Permit Requirements**

Table 1.12.8(a) Permit Requirements

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Operations and Materials	Permit Required	Cross Reference Section No.
Aerosol products	To store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 lb. (226.8kg)	61.1.2
Aircraft fuel servicing	To provide aircraft fuel servicing	42.10.1.2
Aircraft Hangars	For servicing or repairing aircraft	21.1.1
Airport Terminal Buildings	To operate an Airport Terminal Building	21.2.2.1
Ambulatory Health Care occupancy	To operate a ambulatory health care occupancy	20.6.1.1
Ammonium Nitrate	For storage	Chapter 74
Apartment Buildings and Dormitories	To operate an apartment building or dormitory	20.9.1.1
Assembly occupancies	To operate an assembly occupancy	20.1.1.1
Automatic Fire Suppression System	Final system certification, and periodic inspection/testing afterward. To operate or remove from service any automatic fire suppression system and related equipment	13.1.1.1, 50.4.2
Automobile Wrecking Yards	To operate automobile wrecking yards	22.2
Automotive Fuel servicing	To provide automotive fuel servicing	42.2.2.1, 42.11.2.2.4, 42.11.3.1
Battery System	To operate stationary lead-acid battery systems having an electrolyte capacity of more than 100 gal (379 L) in sprinklered buildings or 50 gal (189 L) in nonsprinklered buildings	52.2
Business occupancies	To operate a business occupancy	20.13.1.1
Candles, Open Flames, and Portable Cooking	To use in connection with assembly areas, dining areas of restaurants or drinking establishments	20.1.1.1
Fairs – No rides	To conduct the events	10.14.1
Cellulose Nitrate Film	For storage, handling or use	20.15.7.2
Cellulose Nitrate Plastic	To store, handle, more than 25 lbs. (11.3kg)	43.1.1.4
Cleanrooms	For operation	23.3

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Combustible fibers	For storage or handling of combustible fibers greater than 100 ft ³ . (2.8 m ³)	45.1.3
Combustible Material Storage	To store more than 2500 ft ³ (70.8 m ³) gross volume	10.18.2; 19.1.1; 31.2
Commercial Rubbish-Handling Operation	To operate	19.1.1
Compressed gasses	<ol style="list-style-type: none"> 1) To store, use, or handle compressed gasses in excess of the amounts listed in Table 1.12.8(b) 2) When the compressed gases in use or storage exceeds the amount listed in Table 1.12.8(b), a permit is required to repair damage to, abandon, remove, place temporarily out of service, close, or substantially modify a compressed gas system. 	63.1.2
Cryogenics	To produce, store, or handle cryogenics in excess of amounts listed in Table 1.12.8(c). Exception: Where federal or other state regulations apply or for a fuel system of a vehicle.	63.1.2
Cutting and Welding Operation	For operations within a jurisdiction	41.1.5; 41.3.2.2; 41.3.2.2.2
Day-care occupancies	To operate a day-care occupancy	20.3.1.4.1
Drycleaning Plants	To engage in business of drycleaning or to change to a more hazardous cleaning solvent	24.2
Dust-Producing Operations	To operate a grain elevator, flour mill, starch mill, feed mill, or plant pulverizing aluminum, coal, cocoa, magnesium, spices, sugar, or other similar combustible material.	40.2
Educational occupancy	To operate an educational occupancy	20.2.1.1

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Exhibit and Trade Shows	For operation of all exhibits and trade shows held within a jurisdiction	20.1.5.5.1
Fire alarm and detection systems and related equipment	To operate or remove from service any fire alarm and detection equipment and related equipment.	13.1.1.1
Fire Hydrants and Water-Control Valves	To use a fire hydrant or operate a water-control valve intended for fire suppression purposes on private property	13.1.1.1
Fire pumps and related equipment	To operate or remove from service any fire pumps, jockey pumps, controllers, generators, or related equipment.	13.1.1.1
Flame Effects	Use of flame effects before an audience	65.4.2

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Flammable and combustible liquids

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| <ol style="list-style-type: none"> 1) To use or operate, repair or modify a pipeline for the on-site transportation of flammable or combustible liquids. 2) To store, handle or use class I liquids in excess of 5 gallons or in excess of 10 gallons outside a building.
Exception to #2: A permit is not required for the following: <ol style="list-style-type: none"> a) The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motor boat, mobile power plant, or mobile heating plant unless such storage in the opinion of the chief would cause an unsafe condition. b) The storage or use of paints, oils, varnishes, or similar flammable mixtures when such liquids are stored for maintenance, painting, or similar purposes for a period of not more than 30 days. 3) To store, handle or use Class II or Class III A liquids in excess of 25 gallons in a building or in excess of 60 gallons outside a building.
Exception to #3: Fuel oil used in conjunction with oil-burning equipment. 4) To remove Class I or Class II liquids from an | 66.1.5 |
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underground storage tank used for fueling motor vehicles by any means other than an approved, stationary on-site pumps normally used for dispensing purposes.

5) To operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel dispensing stations, refineries, distilleries, and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed, or used.

6) To alter, clean, repair, line with a protective coating, remove, abandon, place temporarily out of service, or otherwise dispose of a flammable or combustible liquid tank.

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Fruit ripening	To operate a fruit ripening process	63.1.2
Hazardous materials	<ol style="list-style-type: none"> 1) To store, transport on site, dispense, use, or handle hazardous materials in excess of the amounts listed in Table 1.12.8 (d) 2) To repair, abandon, remove, place temporarily out of service, close, or substantially modify a storage facility or other area regulated by Chapter 60 when the hazardous materials in use or storage exceed the amounts listed in Table 1.12.8(d). 	Chapter 60
Health Care facility	To operate a health care occupancy	20.4.1.1
High-Piled Combustible Storage	To use any building or portion thereof as a high-piled storage area exceeding 500 ft. ² (46.45 m ²)	20.15.8.2
Hot Work Operations	For hot work. For additional permit requirements for hot work operations, see 41.1.5	41.1.5, 41.3.4
Hotels and Bed and Breakfast Establishment	To operate a hotel, motel or bed and breakfast establishment	20.8.1.1
Industrial occupancies	To operate an industrial occupancy	20.14.2
Industrial Ovens and Furnaces	For operation of industrial ovens and furnaces covered by Chapter 51	51.1.2
Laboratories	To operate	26.2
Liquefied Petroleum Gases	To store, use, handle, or dispense LP-Gas of 125 gallons (water capacity) aggregate capacity or greater.	42.11.2.2.4, 69.1.2
Liquid- or Gas-Fueled Vehicles	To display, compete, or demonstrate liquid- or gas-fueled vehicles or equipment in assembly buildings	20.1.5.5.1
Lumberyards and Woodworking Plants	For storage of lumber exceeding 100,000 board ft.	31.2

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Marine Craft fuel servicing	To provide marine craft fuel servicing	42.9.1.4
Membrane Structures, Tents, and Canopies — Permanent	For location, erection, or placement	25.1.2
Membrane Structures, Tents, and Canopies — Temporary	To operate an air-supported temporary membrane structure or tent having an area in excess of 200 ft. ² (18.6 m ²) or a canopy in excess of 400 ft. ² (37.2 m ²). <i>Exception: Temporary membrane structures, tents, or canopy structures used exclusively for camping</i>	25.1.2., & CSFSC Part III Chapter 31 for tents
Mercantile occupancies	To operate a mercantile occupancy	20.12.1.1
Organic Coatings	For operation and maintenance of a facility that manufactures organic coatings	43.1.1.4
Organic Peroxide formulations	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.12.8 (c) and (d)	Chapter 75
Outside storage of tires	To store more than 500 tires outdoors	33.1.2
Oxidizers	To store, transport on site, use, or handle materials in excess of amounts listed in Tables 1.12.8 (c) and (d).	Chapter 70
Places of Assembly, including Special Amusement Buildings	To operate a place of assembly	10.14.1 20.1.1.1
Pyrotechnic articles (Sparklers and Fountains)	For manufacture, storage, sale of pyrotechnic articles including sparklers and fountains.	65.10.1.2
Pyrotechnics Before a Proximate Audience	For the display and use of pyrotechnic materials before a proximate audience	65.3.3
Pyroxylin plastics	For storage, handling, assembly, or manufacture of pyroxylin plastics	43.1.1.4
Refrigeration Equipment	To operate a mechanical refrigeration unit or system regulated by this code	53.1.2
Repair Garages and Service Stations	For operation of service stations and repair garages	30.1.1.3, 30.2.1.1

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Residential Board and Care occupancies	To operate a residential board and care occupancy	20.5.1.1
Rocketry Manufacturing	For the manufacturing of model rocket motors	65.7.2
Rooftop Heliports	For operation of a rooftop heliport	21.3.2.1
Solvent extraction	For storage, use and handling	44.3
Sparklers and Fountains	For the sale, on-site handling, manufacture and storage of Sparklers and Fountains	65.5.1, 65.10.1.2
Special Outdoor Events, Carnivals, and Fairs	For the location and operation of special outdoor events, carnivals and fairs	10.14.1
Special Structures and High-Rise Buildings	To operate special structures and high-rise buildings	20.16.1.1.1
Spraying or dipping of flammable finish	For operation of any spray room, spray booth, or preparation work station, or to conduct a spraying or dipping operation utilizing flammable or combustible liquids or powder coatings.	43.1.1.4
Standpipe system	To operate or remove from service any standpipe system and related equipment	13.1.1.1
Storage occupancies	To operate a storage occupancy	20.15.2
Special outdoor events	For the location, and operation of special outdoor events.	10.14.1
Tar Kettles	For placement of a tar kettle, placement shall be obtained prior to the placement of a tar kettle	16.7.1.2
Tire Storage	To use an open area or portion thereof to store tires in excess of 500 tires.	33.1.2; 34.1.2
Torch-Applied Roofing Operation	For the use of a torch for application of roofing materials	16.6.1
Wood Products	To store chips, hogged material, lumber or plywood in excess of 200 ft ³ (5.7 m ³)	31.2

(Amd) **1.13 Licenses.**

(Del) **1.13.1** Delete section.

(Del) **1.13.2** Delete section.

(Del) **1.13.3** Delete section.

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(Del) **1.13.4** Delete section.

(Del) **1.13.5** Delete section.

(Del) **1.13.6** Delete section.

(Del) **1.13.7** Delete section.

(Del) **1.13.8** Delete section.

(Del) **1.13.9** Delete section.

(Del) **1.13.10** Delete section.

(Amd) **1.13.11** Any individual or company to whom a license has been granted shall, upon request, produce and show proper identification and the license to anyone for whom that individual seeks to render services or to the AHJ.

(Del) **1.13.12** Delete section.

(Amd) **1.14.1*** Detailed plans and specifications for new processes and material handling, renovations or alterations to existing processes or material handling regulated by this code shall be submitted by the applicant to the local fire marshal having jurisdiction to demonstrate compliance with section 29-263 of the Connecticut General Statutes.

(Del) **1.14.3** Delete section.

(Del) **1.15* Technical Assistance.** Delete section.

(Del) **1.16 Notice of Violations and Penalties.** Delete section.

(Add) **1.16 Notice of Violations and Penalties** Refer to section 29-291c of the Connecticut General Statutes.

C h a p t e r 2

Referenced Publications

(Amd) **2.1 General.** The documents or portions thereof listed in this chapter are referenced within this code and shall be considered part of the requirements of this document to the extent called for by this code. Where a conflict between a requirement of this code and a referenced document exists, the provisions of this code shall prevail.

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(Add) **2.1.1** Existing buildings or installations that do not comply with the provisions of the following referenced publications shall be permitted to be continued in service, provided the lack of conformity with these standards does not present a serious hazard to occupants as determined by the authority having jurisdiction.

(Amd) **2.2 NFPA Publications.** National Fire Protection Association. 1 Batterymarch Park, PO Box 9101, Quincy, MA 02269-9101

<i>Standard reference number</i>	<i>Title</i>
NFPA 2	Hydrogen Technologies Code, 2011 edition
NFPA 10	Standard for Portable Fire Extinguishers, 2013 edition
NFPA 11	Standard for Low-, Medium-, and High-Expansion Foam, 2010 edition
NFPA 12	Standard on Carbon Dioxide Extinguishing Systems, 2011 edition
NFPA 12A	Standard on Halon 1301 Fire Extinguishing Systems, 2009 edition
NFPA 13	Standard for the Installation of Sprinkler Systems, 2013 edition
NFPA 13D	Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, 2013 edition
NFPA 13R	Standard for the Installation of Sprinkler Systems in Low-rise Residential Occupancies 2013 edition
NFPA 14	Standard for the Installation of Standpipe and Hose Systems, 2013 edition
NFPA 15	Standard for Water Spray Fixed Systems for Fire Protection, 2012 edition
NFPA 16	Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems, 2015 edition
NFPA 17	Standard for Dry Chemical Extinguishing Systems, 2013 edition
NFPA 17A	Standard for Wet Chemical Extinguishing Systems, 2013 edition
NFPA 20	Standard for the Installation of Stationary Pumps for Fire Protection, 2013 edition
NFPA 22	Standard for Water Tanks for Private Fire Protection, 2013 edition
NFPA 24	Standard for the Installation of Private Fire Service Mains and Their Appurtenances, 2013 edition
NFPA 25	Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2014 edition
NFPA 30	Flammable and Combustible Liquids Code, 2015 edition
NFPA 30A	Code for Motor Fuel Dispensing Facilities and Repair Garages, 2015 edition
NFPA 30B	Code for the Manufacture and Storage of Aerosol Products, 2015 edition
NFPA 31	Standard for the Installation of Oil-Burning Equipment, 2011 edition
NFPA 32	Standard for Drycleaning Plants, 2011 edition
NFPA 33	Standard for Spray Application Using Flammable or Combustible Liquids, 2015 edition
NFPA 34	Standard for Dipping and Coating Processes Using Flammable or

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	Combustible Liquids, 2015 edition
NFPA 35	Standard for the Manufacture of Organic Coatings, 2011 edition
NFPA 36	Standard for Solvent Extraction Plants, 2013 editions
NFPA 37	Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines, 2014 edition
NFPA 40	Standard for the Storage and Handling of Cellulose Nitrate Film, 2011 edition
NFPA 45	Standard on Fire Protection for Laboratories Using Chemicals, 2011 edition
NFPA 51	Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Process, 2013 edition
NFPA 51A	Standard for Acetylene Cylinder Charging Plants, 2012 edition
NFPA 51B	Standard for Fire Prevention During Welding, Cutting, and Other Hot Work, 2014 edition
NFPA 52	Vehicular Gaseous Fuel Systems Code, 2013 edition
NFPA 54	National Fuel Gas Code, 2015 edition
NFPA 55	Compressed Gases and Cryogenic Fluids Code, 2013 edition
NFPA 56	Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems. 2014 edition
NFPA 58	Liquefied Petroleum Gas Code, 2014 edition
NFPA 59	Utility LP-Gas Plant Code, 2015 edition
NFPA 59A	Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG), 2013 edition
NFPA 61	Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities, 2013 edition
NFPA 68	Standard on Explosion Protection by Deflagration Venting 2013 edition
NFPA 69	Standard on Explosion Prevention Systems, 2014 edition
NFPA 70	National Electrical Code®, 2017 edition, as amended by the State Building Code
NFPA 72®	National Fire Alarm Code®, 2013 edition
NFPA 75	Standard for Protection of Information Technology Equipment, 2013 edition
NFPA 76	Standard for Fire Protection of Telecommunications Facilities, 2012 edition
NFPA 80	Standard for Fire Doors and Other Opening Protectives, 2013 edition
NFPA 82	Standard on Incinerators and Waste and Linen Handling Systems and Equipment, 2014 edition
NFPA 85	Boiler and Combustion Systems Hazards Code, 2015 edition
NFPA 86	Standard for Ovens and Furnaces, 2015 edition
NFPA 88A	Standard for Parking Structures, 2015 edition
NFPA 90A	Standard for the Installation of Air Conditioning and Ventilating Systems, 2015 edition
NFPA 90B	Standard for the Installation of Warm Air Heating and Air Conditioning Systems, 2015 edition
NFPA 91	Standard for Exhaust Systems for Air Conveying of Vapors, Gasses, Mists, and Noncombustible Particulate Solids, 2010 edition
NFPA 92	Standard for Smoke Control Systems, 2015 edition
NFPA 96	Standard on Ventilation Control and Fire Protection of Commercial Cooking Operations, 2014 edition

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NFPA 99	Health Care Facilities Code, 2015 edition
NFPA 101®	Life Safety Code® – See the Regulations of Connecticut State Agencies adopted under the authority of section 29-292 of the Connecticut General Statutes, known as the Connecticut State Fire Safety Code
NFPA 102	Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures, 2011 edition
NFPA 105	Standard for Smoke Door Assemblies and Other Opening Protectives, 2013 edition
NFPA 110	Standard for Emergency and Standby Power Systems, 2013 edition
NFPA 111	Standard on Stored Electrical Energy Emergency and Standby Power Systems, 2013 edition
NFPA 120	Standard for Fire Protection in Coal Mines, 2015 edition
NFPA 122	Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Mineral Processing facilities, 2010 edition
NFPA 130	Standard for Fixed Guideway Transit and Passenger Rail Systems, Refer to the Regulations adopted pursuant to Connecticut General statutes Chapter 538
NFPA 140	Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations 2013 edition
NFPA 150	Standard on Fire and Life safety in Animal Housing Facilities, 2013 edition
NFPA 160	Standard for the Use of Flame Effects Before an Audience, 2011 edition
NFPA 170	Standard for Fire Safety and Emergency Symbols, 2015 edition
NFPA 204	Standard for Smoke and Heat Venting, 2015 edition
NFPA 211	Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances, 2013 edition
NFPA 220	Standard on Types of Building Construction, 2015 edition
NFPA 221	Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls 2015 edition
NFPA 232	Standard for the Production of Records, 2012 edition
NFPA 241	Standard for Safeguarding Construction, Alteration, and Demolition Operations, 2013 edition
NFPA 252	Standard Methods of Fire Tests of Door Assemblies, 2012 edition
NFPA 253	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source, 2015 edition
NFPA 257	Standard on Fire Test for Window and Glass Block Assemblies, 2012 edition
NFPA 259	Standard Test Method for Potential Heat of Building Materials, 2013 edition
NFPA 260	Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture, 2013 edition
NFPA 261	Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes, 2013 edition

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NFPA 265	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Coverings on Full Height Panels and Walls, 2011 edition
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth, 2015 edition
NFPA 288	Standard Methods of Fire Tests of Horizontal Fire Door Assemblies installed in Horizontal Fire Resistance-Rated Assemblies, 2012 edition
NFPA 289	Standard method of Fire Test for Individual Fuel packages, 2013 edition
NFPA 302	Fire Protection Standard for Pleasure and Commercial Motor Craft, 2015 edition
NFPA 303	Fire Protection Standard for Marinas and Boatyards, 2011 edition
NFPA 307	Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves, 2011 edition
NFPA 312	Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up, 2011 edition
NFPA 318	Standard for the Protection of Semiconductor Fabrication Facilities, 2015 edition
NFPA 326	Standard for safeguarding of Tanks and Containers for Entry, Cleaning, or Repair, 2010 edition
NFPA 385	Standard for Tank Vehicles for Flammable and Combustible Liquids, 2012 edition
NFPA 400	Hazardous Materials Code, 2013 edition
NFPA 407	Standard for Aircraft Fuel Servicing, 2012 edition
NFPA 408	Standard for Aircraft Hand Portable Fire Extinguishers, 2010 edition
NFPA 409	Standard on Aircraft Hangars, 2011 edition
NFPA 410	Standard on Aircraft Maintenance, 2010 edition
NFPA 415	Standard on Airport Terminal Buildings, Fueling Ramp Drainage, and Loading Walkways, 2013 edition
NFPA 418	Standard for Heliports, 2011 edition
NFPA 484	Standard for Combustible Metals, 2015 edition
NFPA 495	Explosive Materials Code, 2013 edition
NFPA 498	Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives, 2013 edition
NFPA 501	Standard on Manufactured Housing, 2013 edition
NFPA 501A	Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities, 2013 edition
NFPA 505	Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operation, 2013 edition
NFPA 601	Standard for Security Services in Fire Loss Prevention, 2010 edition
NFPA 654	Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, 2013 edition
NFPA 655	Standard for Prevention of Sulfur Fires and Explosions, 2012 edition
NFPA 664	Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities, 2012 edition
NFPA 701	Standard Methods of Fire Tests for Flame Propagation of Textiles and Films, 2010 edition

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NFPA 703	Standard for Fire Retardant-Treated Wood and Fire Retardant Coatings for Building Materials, 2015 edition
NFPA 704	Standard System for the Identification of the Hazards of Materials for Emergency Response, 2012 edition
NFPA 720	Standard for the Installation of Carbon monoxide Detection and Warning Equipment 2015 edition
NFPA 750	Standard on Water Mist Fire Protection Systems, 2014 edition
NFPA 801	Standard for Fire Protection for Facilities Handling Radioactive Materials, 2013 edition
NFPA 909	Code for the Protection of Cultural Resource Properties – Museums, Libraries, and Places of Worship, 2013 edition
NFPA 914	Code for Fire Protection of Historic Structures 2010 edition
NFPA 1122	Code for Model Rocketry - See the Regulations of Connecticut State Agencies adopted under the authority of section 29-367 of the Connecticut General Statutes, known as the Connecticut Model Rocketry Code
NFPA 1124	Standard for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition
NFPA 1125	Code for the Manufacture of Model Rocket and High Power Rocket Motors, 2012 edition
NFPA 1126	Standard for the Use of Pyrotechnics before a Proximate Audience, 2011 edition
NFPA 1127	Code for High Power Rocketry, 2013 edition
NFPA 1142	Standard on Water Supplies for Suburban and Rural Fire Fighting, 2012 edition
NFPA 1144	Standard for Reducing Structure Ignition Hazards from Wildland Fire, 2013 edition
NFPA 1194	Standard on Recreational Vehicle Parks and Campgrounds, 2014 edition
NFPA 1600	Standard on Disaster/Emergency Management and Business Continuity Programs, 2016 edition
NFPA 1963	Standard for Fire Hose Connections, 2014 edition
NFPA 2001	Standard on Clean Agent Fire Extinguishing Systems, 2015 edition
NFPA 2010	Standard for Fixed Aerosol Fire Extinguishing Systems, 2015 edition
NFPA 2113	Standard on Selection, Care, Use, and Maintenance of Flame Resistant Garments for Protection of Industrial Personnel Against Flash Fires 2013 edition
NFPA 5000™	Building Construction and Safety Code™ - See the Regulations of Connecticut State Agencies adopted under the authority of section 29-252 of the Connecticut General Statutes, known as the State Building Code

(Amd) **2.3.5 ASME Publications.** American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990

ASME A13.1, Scheme for the Identification of Piping Systems, 2007 edition
ASME/ANSI A17.1, Safety Code for Elevators and Escalators - See the Regulations of Connecticut State Agencies adopted under the authority of section 29-192 of the Connecticut General Statutes, known as the Connecticut Safety Code for Elevators and Escalators.

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ASME/ANSI A17.3, Safety Code for Existing Elevators and Escalators - See the Regulations of Connecticut State Agencies adopted under the authority of section 29-192 of the Connecticut General Statutes, known as the Connecticut Safety Code for Elevators and Escalators.
ASME B31, Code for Pressure Piping, 2012 edition
ASME B31.3, Process Piping, 2012 edition
ASME B56.1, Safety Standard for Low Lift and High Lift Trucks, 2008 edition
ASME Boiler Pressure Vessel Code, Section VIII, "Rules for the Construction of Unfired Pressure Vessels," 2010 edition
ASME Code for Unfired Pressure Vessels 2010 edition

(Add) **2.3.22 Regulations of Connecticut State Agencies.** State of Connecticut - Department of Administrative Services, Division of Construction Services

State Building Code. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-252 of the Connecticut General Statutes.
Connecticut State Fire Safety Code. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-292 of the Connecticut General Statutes.
Connecticut Fireworks and Special Effects Code. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-357 of the Connecticut General Statutes.
Connecticut Safety Code for Elevators and Escalators. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-192 of the Connecticut General Statutes.
Connecticut Explosives Code. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-349 of the Connecticut General Statutes.
Connecticut Model Rocketry Code. See the Regulations of Connecticut State Agencies adopted under the authority of section 29-367 of the Connecticut General Statutes.

Chapter 3

Definitions

(Amd) **3.3.29* Building.** Any structure used or intended for supporting or sheltering any use or occupancy. For application of this code, each portion of a building which is completely separated from other portions by fire walls which have been designed and constructed in accordance with the State Building Code and have been approved by the building official shall be considered separate buildings.

(Amd) **3.3.39 Certificate of Fitness.** A written document issued by the State Fire Marshal to any person for the purpose of granting permission to such person to conduct or engage in any operation or act for which certification is required. Where specified in this code, certificate of fitness shall mean license.

(Amd) **3.3.92 Dwelling Unit.** One or more rooms arranged for the use of one or more individuals living together, providing complete, independent living facilities, including permanent provisions for living, sleeping, eating, cooking and sanitation. A dwelling unit shall not allow more than six lodgers or boarders where care is not provided.

(Add) **3.3.183.5.1 In-home Group B occupancies.** Customary in-home business occupancies

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located within a single-family dwelling unit that provide professional services that employ a maximum of one employee within the dwelling in addition to the residents of the dwelling unit shall be classified as a single family dwelling.

(Amd) **3.3.183.9* Dormitory.** A building or a space in a building in which group sleeping accommodations are provided for more than 16 persons who are not members of the same family in one room, or a series of closely associated rooms, under joint occupancy and single management, with or without meals, and with or without individual cooking facilities.

(Amd) **3.3.183.10* Educational Occupancy.** An occupancy used for educational purposes through the twelfth grade by six or more persons for four or more hours per day or more than 12 hours per week. Training and skill development not within a school or academic program shall be classified as business occupancies.

(Add) **3.3.183.26.1 Bed and Breakfast or Bed and Breakfast Establishment.** A building:

- (1) That provides sleeping accommodations to the public for a fee for no more than 16 persons with guest rooms limited to the first or second floor of the structure, and
- (2) Where the owner occupies the facility or an adjacent property as his or her primary place of residence, and
- (3) Where cooking or food warming of any type is not allowed in guest rooms, and
- (4) That has a maximum of three stories in height and does not contain a mixed occupancy.

(Add) **3.3.183.14.1 In-home Industrial Occupancies, other than High Hazard Industrial Occupancies.** Customary in-home industrial occupancies, located within a single-family dwelling premises, in which processing, assembling, mixing, packaging, finishing, decorating or repair operations are conducted and employ a maximum of one employee within the dwelling in addition to the residents of the dwelling premises, shall be classified as a single-family Residential occupancy.

(Del) **4.3 Compliance Options.** Delete Section

(Del) **4.4.1 Multiple Safeguards.** Delete Section

(Del) **4.4.2 Appropriateness of Safeguards.** Delete Section

(Del) **4.4.3.1.3** Delete Section

(Del) **4.4.3.2 Awareness of Egress System.** Delete Section

(Del) **4.4.4 Occupant Notification.** Delete Section

(Del) **4.4.5 Vertical Openings.** Delete Section

(Del) **4.5.1.2** Delete

(Del) **4.5.2 Historic Structures and Cultural Resource Buildings.** Delete

(Del) **4.5.4 Conditions for Occupancy.** Delete Section

(Del) **4.5.5 Warrant of Fitness.** Delete Section

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(Del) 4.5.7 Changes in Occupancy. Delete Section

(Amd) **4.5.8.1** Whenever or wherever any device, equipment, system, condition, arrangement, level of protection, fire resistive construction, or any other feature is required for compliance with the provisions of this code, the CSFSC or the SBC, such device, equipment, system, condition, arrangement, level of protection or other feature shall thereafter be continuously maintained in accordance with applicable NFPA requirements.

(Del) **4.5.9 Noncombustible Material.** Delete Section

(Del) **Chapter 5 Performance-Based Option.** Delete chapter.

Chapter 6 Classification of Occupancy.

(Del) **6.1. Classification of Occupancy**

(Add) **6.1. Classification of Occupancy.** The Classification of Occupancy and designations for such shall be the same as found in the CSFSC.

Chapters 7 ~ 9

Reserved

Chapter 10

General Safety Requirements

(Amd) **10.1.1** Every new and existing building or structure shall be constructed, arranged equipped, maintained and operated in accordance with the SBC, CFSC and this code so as to provide a reasonable level of life safety, property protection and public welfare from the actual and potential hazards created by fire, explosion and other hazardous conditions.

(Amd) **10.1.2*** Every new and existing building shall comply with this code, the CSFSC and the SBC.

(Del) **10.1.3 Building Code.** Delete section.

(Del) **10.1.4 Structural Hazards.** Delete section.

(Amd) **10.2.6** All records required to be kept shall be maintained until their useful life has been served, as required by law.

(Amd) **10.4.1** Persons shall not fail to leave a building when notified to do so in accordance with Section 7-313e of the Connecticut General Statutes, as a result of a known or perceived emergency.

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(Amd) **10.5.1 Where Required.** Emergency egress and relocation drills conforming to the provisions of this code shall be conducted as specified by the provisions of Chapter 20 of this code or the CSFSC. Drills shall be designed in cooperation with the local authorities and shall consider the needs of the physically challenged.

(Del) **10.10.1** Delete section.

(Del) **10.10.2** Delete section.

(Del) **10.10.3** Delete section.

(Del) **10.10.4** Delete section.

(Del) **10.10.5** Delete section.

(Del) **10.10.8** Delete section.

(Amd) **10.11.3.1** Existing enclosed stairs serving five or more stories shall comply with sections 10.11.3.1.1 to 10.11.3.1.15, inclusive, of this code.

(Del) **10.12 Vacant Buildings and Premises.** Delete section and replace in its entirety as follows:

(Add) **10.12 Vacant Buildings and Premises.**

(Add) **10.12.1 General.** Temporarily unoccupied buildings, structures, premises or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with this section.

(Add) **10.12.1.1 Abandoned Premises.** Buildings, structures and premises for which an owner cannot be identified or located by dispatch of a certificate of mailing to the last known or registered address, and which persistently or repeatedly become unprotected or unsecured; which have been occupied by unauthorized persons or for illegal purposes; or which present a danger of structural collapse or fire spread to adjacent properties shall be considered abandoned, declared unsafe and abated or demolished in accordance with this code.

(Add) **10.12.2 Safeguarding Vacant Premises.** Temporarily unoccupied buildings, structures, premises or portions thereof shall be secured and protected in accordance with this section.

(Add) **10.12.2.1 Security.** Exterior openings and interior openings accessible to other tenants or unauthorized persons shall be boarded, locked, blocked or otherwise protected to prevent entry by unauthorized individuals. The A.H.J. is authorized to placard, post signs, erect barrier tape or take similar measures as necessary to secure public safety.

(Add) **10.12.2.2 Fire Protection.** Fire alarm, sprinkler and standpipe systems shall be maintained in an operable condition at all times.

Exceptions:

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1. When the premises have been cleared of all combustible materials and debris and, in the opinion of the code official, the type of construction, fire separation distance and security of the premises do not create a fire hazard.
2. Where buildings will not be heated and fire protection systems will be exposed to freezing temperatures, fire alarm and sprinkler systems may be placed out of service and standpipes may be maintained as dry systems (without an automatic water supply) provided the building has no contents or storage and windows, doors and other openings are secured to prohibit entry by unauthorized persons.

(Add) **10.12.2.3 Fire Separation.** Fire-resistance-rated partitions, fire barriers and fire walls separating vacant tenant spaces from the remainder of the building shall be maintained.

(Add) **10.12.3 Removal of Combustibles.** Persons owning, occupying or having charge or control of a vacant building or portion thereof, shall remove all accumulations of combustible materials and flammable or combustible waste or rubbish from such space and shall securely lock or otherwise secure doors, windows and other openings to prevent entry by unauthorized persons. The premises shall be maintained clear of waste or hazardous materials.

Exceptions:

1. Buildings or portions of buildings undergoing additions, alterations, repairs or change of occupancy under a valid permit in accordance with the SBC.
2. Seasonally occupied buildings.

(Add) **10.12.4 Removal of hazardous materials.** Persons owning, or in charge or control of, a vacant building or portion thereof, shall remove all accumulations of hazardous materials as defined by this code.

(Amd) **Table 10.13.1.1**

Table 10.13.1.1 Provisions for Christmas Trees by Occupancy

Occupancy	No Trees Permitted	Cut Tree Permitted With Automatic Sprinkler System	Cut Tree Permitted Without Automatic Sprinkler System	Balled Tree Permitted
Ambulatory health care				X
Apartment buildings		Within Unit	Within Unit	X
Assembly				X
Board and care				X
Business		X		X

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Day-care		X		X
Detention and correctional	X			
Dormitories				X
Educational				X
Health care				X
Hotels				X
Industrial		X	X	X
Lodging and rooming		X		X
Mercantile		X		X
Storage		X	X	X

(Amd) **10.14.11.4.2** The use of display fireworks shall comply with the Connecticut fireworks regulations adopted pursuant to section 29-357a of the Connecticut General Statutes.

(Del) **10.16 Parade Floats.** Delete Section

Chapter 11

Building Services

(Amd) **11.2.2 Ventilating or Heat-Producing Equipment.** Ventilating or heat-producing equipment shall be in accordance with the CSFSC. Approved existing installations may be continued in service.

(Del) **11.3.1 Fire Fighter's Emergency Operation.** Delete section.

(Del) **11.3.2 Number of Cars.** Delete section.

(Del) **11.3.3* Elevator Machine Rooms.** Delete section.

(Del) **11.3.4 Elevator Testing.** Delete section.

(Amd) **11.5.2.1** Kerosene burners and oil stoves shall be equipped with a primary safety control furnished as an integral part of the appliance by the manufacturer to stop the flow of oil in the event of flame failure. Barometric oil feed is not permitted. All unvented fuel-burning room heaters shall be listed by a nationally recognized testing laboratory.

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(Amd) **11.5.2.2** Unvented kerosene burners and oil stoves shall not be used in any residence other than a single-family detached home.

(Amd) **11.10.1** Where Installed, two-way radio communication enhancement systems shall be maintained in accordance with NFPA 72 and AHJ.

(Del) **11.10.2** Delete section

(Amd) **11.12.2.2.2 Pitched Small Roof Design.** When allowed by the AHJ as referenced by section 11.12.2.2.3 of this code, photovoltaic systems installed in roofs configured similar to one- and two-family dwellings and townhouses shall be in accordance with this section.

Chapter 12

Features of Fire Protection

(Amd) **12.3.1** The design and construction of fire walls and fire barriers that are required to separate buildings or subdivide a building to prevent the spread of fire shall comply with section 12.3 of this code and the CSFSC.

(Del) **12.3.2 Quality Assurance for Penetrations and Joints.** Delete section.

(Add) **12.7.4.2.1.1** Existing ½ hour vertical shafts, other than exits, may be protected by 20 minute fire doors in existing buildings.

(Add) **12.7.4.2.1.1.1** In existing vertical shafts, other than exits, fire window assemblies shall be permitted as follows:

- (1) One hour walls and partitions with ¾ hour fire window assemblies.
- (2) One half hour walls and partitions with 1/3 hour fire window assemblies.

(Add) **12.7.4.3.1** Doors having a 20-minute fire protection rating or door assemblies consisting of door frames constructed of at least ¾ in. thick hardwood stock and 1 ¾ in. thick solid core doors that are self-closing and positive latching may be used in vertical openings and exit enclosures provided the building has at least either partial automatic sprinkler protection in accordance with Part IV section 9.7 of the CSFSC or a partial fire detection system in accordance with Part IV section 9.6 of the CSFSC. These systems shall include either a sprinkler or fire detector opposite the center of and inside any door that opens into the exit of a partial system and the provisions for occupant notification in accordance with Part IV section 9.6.3 of the CSFSC.

Chapter 13

Fire Protection Systems

(Amd) **13.1.1** Where a fire protection system is required by any other provision of this code or its referenced standards or installed to achieve compliance with this code, the system shall be maintained as provided by this chapter.

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(Del) **13.1.11** Delete section.

(Del) **13.2.1 General.** Delete section.

(Del) **13.2.2 Where Required.** Delete section.

(Amd) **13.2.3.1** A standpipe system installed in accordance with the CSFSC shall be properly maintained to provide at least the same level of performance and protection as designed.

(Add) **13.3.1.10.** Buildings provided with standby electrical power for the purpose of continuing operations or occupancy shall provide standby power for any electric fire pump installed to provide an adequate water supply or minimum operating pressure to a required automatic sprinkler system, except that existing installations may be continued in service subject to the approval of the authority having jurisdiction. Standby power in accordance with NFPA 70®, *National Electrical Code*®, and NFPA 110, *Standard for Emergency and Standby Power Systems*, Type 60 shall be provided. The standby power system shall have a capacity and rating sufficient to supply all required equipment. Selective load pickup and load shedding shall be permitted in accordance with NFPA 70®, *National Electrical Code*®.

(Del) **13.3.2 Where Required.** Delete section.

(Add) **13.3.3.2.1 Maintenance of NFPA 13D Systems.**

(Add) **13.3.3.2.1.1** A minimum monthly maintenance program shall include:

- (1) Visually inspecting all sprinklers to ensure against obstruction of spray.
- (2) Inspecting all valves to ensure they are open.
- (3) Checking the pressure of air used with dry systems.
- (4) Checking the water level in storage tanks.

(Add) **13.3.3.2.1.2** A minimum quarterly maintenance program shall include:

- (1) Testing of all water flow alarms.
- (2) Testing of the alarm system.

(Add) **13.3.3.2.1.3** Operated or damaged sprinklers shall be replaced with sprinklers having the same performance characteristics as the original equipment.

(Add) **13.3.3.2.1.4** Any sprinklers that have been painted outside the factory shall be replaced with a new listed sprinkler.

(Amd) **13.6.1.2* Where Required.** Fire extinguishers shall be provided where required by this Code as specified in Table 13.6.1.2 and the referenced codes and standards listed in Chapter 2 of this code, as well as where required by the Connecticut State Fire Safety Code and its referenced codes and standards.

Table 13.6.1.2 Portable Fire Extinguishers Required
Occupancy Use **Where Required: New** **Existing**

Occupancy Use	Where Required: New	Existing
Ambulatory health care group B medical occupancies	Yes	Yes
Apartment and dormitory group R-2 occupancies ^a	No	No

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Assembly group A occupancies ^b	Yes	No
Bed and Breakfast Establishments Group R-1 occupancies ^f	Yes	Yes
Business group B occupancies	Yes	No
Day-care group I-4 & E occupancies	Yes	No
Detention and correctional group I-3 occupancies ^{c,d}	Yes	Yes
Educational group E occupancies	Yes	No
Health care group I-1 and I-2 occupancies	Yes	Yes
Hotel group R-1 occupancies	Yes	No
Industrial group F occupancies	Yes	No
Industrial group H occupancies	Yes	Yes
Lodging and rooming house group R-1 and R-2 occupancies	Yes	No
Mercantile group M occupancies	Yes	No
One- and two-family dwelling occupancies	No	No
Residential board and care, group R-4 & small I-2 occupancies	Yes	No
Storage group S and H occupancies ^e	Yes	No

^aPortable fire extinguishers shall be permitted to be located at exterior locations or interior locations so that all portions of the buildings are within 75 ft (22.8 m) of travel distance to an extinguishing unit.

^bPortable fire extinguishers are not required in seating or outdoor performance areas.

^cAccess to portable fire extinguishers shall be permitted to be locked.

^dPortable fire extinguishers shall be permitted to be located at staff locations only.

^eIn storage areas where forklift, powered industrial truck, or cart operators are the primary occupants, fixed extinguishers, as specified in NFPA 10, need not be provided when:

(1) Use of vehicle-mounted extinguishers is approved by the AHJ.

(2) Each vehicle is equipped with a 10 lb, 4A:80-B:C extinguisher affixed to the vehicle using a mounting bracket approved by the extinguisher manufacturer or the AHJ for vehicular use.

(3) Not less than two spare extinguishers of equal or greater rating are available onsite to replace a discharged extinguisher.

(4) Vehicle operators are trained in the proper operation and use of the extinguisher.

(5) Inspections of vehicle-mounted extinguishers are performed daily.

^fPortable fire extinguishers shall be provided in bed and breakfast establishments as required by the CSFSC.

(Add) **13.6.1.2.1** Portable fire extinguishers shall be required in all occupancies, outside and immediately adjacent to the entrance to all special hazardous areas except general storage areas. If the only entrance to a special hazardous area is from the exterior of the building, the fire extinguisher may be located just inside the entrance door.

(Add) **13.6.1.2.2** Portable fire extinguishers shall be required where commercial cooking equipment is utilized.

(Amd) **13.7.1.8.7** Smoke alarms shall receive their operating power as follows:

(1) In buildings for which a building permit for new occupancy was issued on or after October 1, 1985, smoke alarms shall be powered by both alternating current (AC) and batteries (DC).

(2) In buildings for which a building permit for new occupancy was issued on or after October 1, 1976, smoke alarms shall be powered by the household electrical service.

(3) In buildings for which a building permit was issued prior to October 1, 1976, smoke

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alarms may be battery powered.

(Amd) **13.7.1.8.8** Where two or more smoke alarms are required within a dwelling unit, suite of rooms, or similar area, they shall be arranged so that operation of any smoke alarm shall cause the alarm of all smoke alarms within the dwelling unit, suite of rooms, or similar area to sound, except when:

- (1) Permitted by another section of this code.
- (2) Configurations provide equivalent distribution of the alarm signal.
- (3) Installations existed prior to October 16, 1989.

(Add) **13.7.1.9.5.9** When selective occupant notification is utilized in accordance with the CSFSC, the portions of the building that do not receive the initial notification of alarm shall be separated from areas of the immediate emergency and initial evacuation by construction having a fire resistance rating of at least 1 hour.

(Add) **13.7.1.9.6.6** In mall buildings, notification within the mall shall be in accordance with the CSFSC.

(Amd) **13.7.1.14 Carbon Monoxide (CO) Detection and Warning Equipment.** Where required by the CFSC or SBC, carbon monoxide (CO) detection and warning equipment shall be provided in accordance with NFPA 720, *Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment*.

(Del) **13.7.2 Where Required and Occupancy Requirements.** Delete section.

C h a p t e r 1 4

M e a n s o f E g r e s s

(Amd) **14.2 Exit Access Corridors.** Corridors used as exit access and serving an area having an occupant load exceeding 30 shall be separated from other parts of the building by walls having not less than a 1-hour fire resistance rating in accordance with the CSFSC, except this requirement shall not apply:

- (1) To existing buildings, provided the occupancy classification does not change.
- (2) Where otherwise provided in the CSFSC and SBC.

(Amd) **14.3.1** Where the CSFSC requires an exit to be separated from other parts of the building, the separating construction shall meet the requirements of the CSFSC.

(Amd) **14.4.1* Maintenance.** Means of egress and primary means of escape shall be continuously maintained free of all obstructions or impediments to full instant use in the case of fire or other emergency.

(Add) **14.4.1.1** Where horizontal-sliding or vertical-rolling security grilles or doors are permitted in part of the required means of egress, they shall meet the following operational criteria:

- (1) Such grilles or doors shall remain secured in the fully open position during the period of occupancy by the general public.

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- (2) On or adjacent to the grille or door, there shall be a readily visible, durable sign in letters not less than 1 inch (25 mm) high on a contrasting background that reads as follows:
THIS DOOR TO REMAIN OPEN WHEN THE BUILDING IS OCCUPIED.
- (3) Grilles or doors shall not be brought to the closed position when the space is occupied.
- (4) Grilles or doors shall be operable from within the space without the use of any special knowledge or effort.

(Add) **14.4.1.2 Powered Doors.** Where means of egress doors are operated by power upon the approach of a person or are provided with power-assisted manual operation, they shall meet the following operational criteria:

A readily visible, durable sign in letters not less than 1 inch (25 mm) high on a contrasting background that reads as follows shall be located on the egress side of each door:

IN EMERGENCY, PUSH TO OPEN

(Add) **14.4.1.3** Open space within the exit enclosure shall not be used for any purpose that has the potential to interfere with egress.

(Add) **14.4.3.1 Security Device.** Any security device or system that emits any medium that could obscure a means of egress in any building, structure or premises shall be prohibited.

(Amd) **14.5.3.2* Access-Controlled Egress Door Assemblies** Where permitted in The CSFSC, entrance doors to buildings and tenant spaces in the means of egress may be equipped with electrical lock hardware that prevents egress, provided the following criteria are met:

- (1) A sensor shall be provided on the egress side, arranged to unlock the door leaf in the direction of egress upon detection of an approaching occupant
- (2) Door leaves shall automatically unlock in the direction of egress upon loss of power to the sensor or to the part of the access control system that locks the door leaves.
- (3) The doors shall be arranged to unlock in the direction of egress from a manual release device complying with all of the following criteria;
 - (a) A manual release device shall be located on the egress side 40 inches to 48 inches (1015 mm to 1,220 mm) vertically above the floor, within 60 inches (1,525 mm) of the secured door openings.
 - (b) The manual release device shall be readily accessible and clearly identified by a sign that reads as follows: "PUSH TO EXIT".
 - (c) When operated, the manual release device shall result in direct interruption of power to the lock – independent of the locking system electronics – and the lock shall remain unlocked for not less than 30 seconds.
- (4) Activation of the building fire-protective signaling system, if provided, shall automatically unlock the door leaves in the direction of egress, and the door leaves shall remain unlocked until the fire-protective signaling system has been manually reset.
- (5) Activation of the manual fire alarm boxes that activate the building fire protective signaling system specified in Section 14.5.3.2(4) shall not be required to unlock the door leaves.
- (6) Activation of the building automatic sprinkler or fire detection system, if provided, shall automatically unlock the door leaves in the direction of egress, and the door leaves shall remain unlocked until the fire-protective signaling system has been manually reset.
- (7) The egress side of access controlled egress doors, other than existing access controlled egress doors, shall be provided with emergency lighting in accordance with Section 14.13.

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(Amd) **Table 14.8.1.2 Occupant Load Factor**

Use	(ft²/person)^a	(m²/person)^a
Assembly Use		
Concentrated use, w/out fixed seating	7 net	0.65 net
Less concentrated use, w/out fixed seating	15 net	1.4 net
Bench-type seating	1 person/18 linear in.	1 person/455 linear mm
Fixed seating	Use number of fixed seats	
Waiting spaces	See 13.1.7.2.	See 13.1.7.2.
Kitchens	200	9.3
Exhibit gallery and museums	30 net	2.8 net
Library stack areas	100	9.3
Library reading rooms	50 net	4.6 net
Swimming pools	50 (water surface)	4.6 (water surface)
Swimming pool decks	30	2.8
Exercise rooms	50	4.6
Stages	15 net	1.4 net
Lighting and access catwalks, galleries, gridirons	100 net	9.3 net
Casinos and similar gaming areas	11	1
Skating rinks	50	4.6
Airport terminal areas		
Baggage Claim	20	1.9
Baggage handling	300	27.9
Concourse	100	9.3
Waiting areas	15	1.4
Business Use (other than below)		
Concentrated Business Use ^f	50	4.6
Air traffic control tower Observation levels	40	3.7
Day-Care Use	35 net	3.3 net
Detention and Correctional Use	120	11.1
Educational Use		
Classrooms	20 net	1.9 net
Shops, laboratories, vocational rooms	50 net	4.6 net
Health Care Use		
Inpatient treatment departments	240	22.3
Sleeping departments	120	11.1
Ambulatory health care	150	13
Outpatient treatment departments	100	9.3
Industrial Use		
General and high hazard industrial	100	9.3
Special-purpose industrial	NA	NA
Mercantile Use		
Sales area on street floor ^{b,c}	30	2.8
Sales area on two or more street floors ^c	40	3.7
Sales area on floor below street floor ^c	30	2.8
Sales area on floors above street floor ^c	60	5.6
Floors or portions of floors used only		

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for offices	See business use.	See business use.
Floors or portions of floors used only for storage, receiving, and shipping, and not open to general public	300	27.9
Mall buildings ^d	Per factors applicable to use of space ^e	
Residential Use		
Hotels and dormitories	200	18.6
Apartment buildings	200	18.6
Board and care, large	200	18.6
Storage Use		
In storage occupancies	NA	NA
In mercantile occupancies	300	27.9
In other than storage and mercantile occupancies	500	46.5

NA: Not applicable. The occupant load is the maximum probable number of occupants present at any time.

^aAll factors are expressed in gross area unless marked “net.”

^bFor the purpose of determining occupant load in mercantile occupancies where, due to differences in the finished ground level of streets on different sides, two or more floors directly accessible from streets (not including alleys or similar back streets) exist, each such floor is permitted to be considered a street floor. The occupant load factor is one person for each 40 ft² (3.7 m²) of gross floor area of sales space.

^cFor the purpose of determining occupant load in mercantile occupancies with no street floor, as defined in 3.3.271, but with access directly from the street by stairs or escalators, the floor at the point of entrance to the mercantile occupancy is considered the street floor.

^dFor any food court or other assembly use areas located in the mall that are not included as a portion of the gross leasable area of the mall building, the occupant load is calculated based on the occupant load factor for that use as specified in Table 7.3.1.2. The remaining mall area is not required to be assigned an occupant load.

^eThe portions of the mall that are considered a pedestrian way and not used as gross leasable area are not required to be assessed an occupant load based on Table 7.3.1.2. However, means of egress from a mall pedestrian way are required to be provided for an occupant load determined by dividing the gross leasable area of the mall building (not including anchor stores) by the appropriate lowest whole number occupant load factor from Figure 7.3.1.2(a) or Figure 7.3.1.2(b).

Each individual tenant space is required to have means of egress to the outside or to the mall based on occupant loads calculated by using the appropriate occupant load factor from Table 7.3.1.2. Each individual anchor store is required to have means of egress independent of the mall.

^fSee A.7.3.1.2.

(Amd) **14.9.1.6 Elevator Landing and Lobby Exit Access.** The provisions of this section shall not apply to buildings for which a building permit was issued prior to June 15, 1994.

(Del) **Chapter 15 Fire Department Service Delivery Concurrent Evaluation.** Delete chapter.

Chapter 16

Safeguards During Building Construction,

Alteration, and Demolition Operations

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(Amd) **16.2.2.2** Rubbish shall not be burned on the premises without first obtaining applicable approval as required by any provision of the Connecticut General Statutes, the Regulations of Connecticut State Agencies or a municipal ordinance or as otherwise required by any federal, state or local agency.

(Del) **16.3.2.5.1*** Delete section.

(Del) **16.3.2.5.4*** Delete section.

(Amd) **16.3.4.5.1** In all buildings higher than one story, at least one stairway in usable condition shall be provided at all times.

(Del) **16.3.6.1*** Delete section.

(Del) **16.3.6.4** Delete section.

(Del) **16.3.6.5** Delete section.

(Amd) **16.4.3.3.1.1** The pipe size, hose valves, hose, water supply and other details for new construction shall be in accordance with CFSC.

(Del) **Chapter 17 Wildland Urban Interface.** Delete chapter.

C h a p t e r 1 8

(Amd) Fire Department Access

(Amd) **18.1 General.** Fire department access shall comply with this chapter.

(Del) **18.3 Water Supplies.** Delete section

(Del) **18.4 Fire Flow Requirements for Buildings.** Delete section

(Del) **18.5.1 Fire Hydrant Locations and Distribution.** Delete section

(Del) **18.5.2 Detached One- and Two-Family Dwellings.** Delete section

(Del) **18.5.3 Buildings Other Detached One- and Two-Family Dwellings.** Delete section

(Del) **18.5.4 Minimum Number of Fire Hydrants and Fire Flows.** Delete section

C h a p t e r 1 9

Combustible Waste and Refuse

(Del) **19.1.8 Vehicles or Conveyances Used to Transport Combustible Waste or Refuse.** Delete section.

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(Amd) **19.2.1.4 Rubbish within Dumpsters.** Dumpsters and containers with an individual capacity of 1.5 yd³ (1.15 m³) or more shall not be stored in buildings or placed within 10 feet (3 m) of combustible walls, openings, or combustible roof eave lines unless meeting either section 19.2.1.4.1 or 19.2.1.4.2 of this code.

Chapter 20

Occupancy Fire Safety

(Amd) **20.1 Assembly Occupancies Including Assembly Groups A-1, A-2, A-3, A-4 and A-5.**

(Add) **20.1.5.4.5 Stage Standpipe System.** When the AHJ determines that material, such as scenery, props and temporary fixtures, are present on a stage equipped with hose connections that create an extraordinary fire load, a fire watch equipped with fire hoses attached to the hose outlets on the stage for first aid firefighting shall be provided whenever an audience is present.

(Amd) **20.1.5.5.4.12.2** At least one battery cable shall be removed from the batteries used to start the vehicle engine, and the disconnected battery cable shall then be taped, except where the manufacturer's instructions indicate that this may cause damage to the vehicles operating systems.

(Amd) **20.1.5.8.3*** In the following assembly occupancies, an audible announcement shall be made, or a projected image shall be shown, prior to the start of each program that notifies occupants of the location of the exits to be used in case of a fire or other emergency:

- (1) Theaters.
- (2) Motion picture theaters.
- (3) Auditoriums.
- (4) Other similar assembly occupancies with occupant loads exceeding 100 where there are noncontinuous programs.

(Amd) **20.1.5.9.1** The requirements of this section shall apply where smoking is prohibited by the provisions of the Connecticut General Statutes.

(Amd) **20.2 Educational Occupancies Including Education Group E.**

(Add) **20.2.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Add) **20.2.4.2.5** A crisis response drill may be substituted for an emergency egress and relocation drill at an interval of once every three months.

(Add) **20.2.5 Room Locations.**

(Add) **20.2.5.1** Rooms normally occupied by preschool, kindergarten or first-grade students shall be located on a level of exit discharge, unless otherwise permitted by section 20.2.5.3 of this code.

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(Add) **20.2.5.2** Rooms normally occupied by second-grade students shall not be located more than one story above a level of exit discharge, unless otherwise permitted by section 20.2.5.3 of this code.

(Add) **20.2.5.3** Rooms or areas located on floor levels other than as specified in sections 20.2.5.1 and 20.2.5.2 of this code may be used provided such rooms or areas have independent means of egress dedicated for use by the preschool, kindergarten, first-grade or second-grade students.

(Amd) **20.3 Day-Care Occupancies Including Those Considered Institutional Group I-4.**

(Add) **20.3.1.4.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Del) **20.3.4.1.1** Delete section.

(Amd) **20.3.4.1.2** In existing day-care homes, the requirements of Section 17.6 of Part IV of the CSFSC shall apply to existing day care homes in which more than 3, but not more than 12, clients receive care, maintenance, and supervision by other than a relative or legal guardian for less than 24 hours per day, generally within a dwelling unit. An existing day-care home shall have the option to meet the requirements of the SBC in lieu of the CSFSC. Any existing day-care home that meets the requirements of the SBC shall be deemed to have met the requirements of this chapter.

(Del) **20.3.4.1.3** Delete section.

(Amd) **20.4 Health Care Occupancies Including Institutional Group I-2.**

(Add) **20.4.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Amd) **20.4.2.1.4** The provisions of sections 10.5, 10.8 and 20.4.2.1.2 through 20.4.2.2.3, inclusive, of this code shall apply.

(Del) **20.4.3.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.4.3.2.1** Delete section.

(Del) **20.4.3.2.2** Delete section.

(Del) **20.4.3.3 Interior Floor Finish.** Delete section.

(Del) **20.4.3.4 Interior Finish (Nonsprinklered Smoke Compartment Rehabilitation).** Delete section.

(Del) **20.4.3.5.1** Delete section.

(Del) **20.4.3.5.2** Delete section.

(Amd) **20.5 Residential Board and Care Occupancies Including Residential Group R-4, Institutional Group I-1 and Small I-2 Homes as described in the CSFC.**

(Add) **20.5.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

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(Del) **20.5.3.1.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.5.3.1.4 Interior Floor Finish.** Delete section.

(Del) **20.5.3.2.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.5.3.2.4 Interior Floor Finish.** Delete section.

(Del) **20.5.3.3.1 New Interior Finish.** Delete section.

(Amd) **20.6 Ambulatory Health Care Centers Including Business Group B Medical Occupancies.**

(Add) **20.6.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Amd) **20.7 Detention and Correctional Occupancies Including Institutional Group I-3.**

(Del) **20.7.3.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.7.3.4 New Interior Floor Finish.** Delete section.

(Del) **20.7.3.6 Interior Finish (Nonsprinklered Existing Building Renovations).** Delete section.

(Amd) **20.8 Hotels Including Residential Group R-1.**

(Add) **20.8.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Amd) **20.8.2.4.1*** A floor diagram reflecting the actual floor arrangement, exit and escape locations and room identification shall be posted in a location and manner acceptable to the AHJ on, or immediately adjacent to, every guest room door in hotels.

(Del) **20.8.2.3** Delete section.

(Del) **20.8.2.4.3 Emergency Action Plans.** Delete section.

(Del) **20.8.3.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.8.3.4 New Interior Floor Finish.** Delete section.

(Amd) **20.9 Apartment Buildings and Dormitories Including Residential Group R-2.**

(Add) **20.9.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Add) **20.9.2.1.1 Drills in Dormitories.** Emergency egress and relocation drills shall be regularly conducted in accordance with section 10.6 of this code.

(Add) **20.9.2.1.2*** A floor diagram reflecting the actual floor arrangement, exit and escape locations and room identification shall be posted in a location and manner acceptable to the AHJ on, or immediately adjacent to, every door in every resident room in dormitories.

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(Del) **20.9.3.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.9.3.4 New Interior Floor Finish.** Delete section.

(Add) **20.9.4.4** Newly introduced mattresses in dormitories shall meet the criteria specified in 12.6.3.2 and 12.6.3.2.2.

(Amd) **20.10 Lodging or Rooming Houses and Bed and Breakfast.**

(Add) **20.10.5 Emergency Instructions for Residents or Guests.** A floor diagram reflecting the actual floor arrangement, exit and escape locations, and room identification shall be posted in a location and manner acceptable to the AHJ on, or immediately adjacent to, every resident room door.

(Del) **20.11 One- and Two-Family Dwellings and Manufacturing Housing.** Delete section.

(Amd) **20.12 Mercantile Occupancies Including Mercantile Group M.**

(Add) **20.12.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Del) **20.12.3.2 New Interior Wall and Ceiling Finish.** Delete section.

(Del) **20.12.3.3 Interior Floor Finish.** Delete section.

(Add) **20.12.4 Covered Mall Buildings.** Covered mall buildings shall comply with the provisions of sections 20.12.4.1 to 20.12.4.5, inclusive, of this code.

(Add) **20.12.4.1 Lease Plan.** A lease plan shall be prepared for each covered mall building and shall include the following information:

- (1) Each occupancy, including tenant identification.
- (2) Exits from each tenant space.
- (3) Fire protection features, including the following:
 - (a) Fire department connections.
 - (b) Fire command center.
 - (c) Smoke management system controls.
 - (d) Elevators and elevator controls.
 - (e) Hose valves outlets.
 - (f) Sprinkler and standpipe control valves.
 - (g) Automatic fire-extinguishing system areas.
 - (h) Automatic fire detector zones.
 - (i) Fire barriers.

(Add) **20.12.4.2 Approval.** The lease plan shall be submitted to the fire code official for approval and shall be maintained on site for immediate reference by responding fire service personnel.

(Add) **20.12.4.3 Revisions.** The lease plans shall be revised annually or as often as necessary to keep them current.

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(Add) **20.12.4.4 Tenant Identification.** Each occupied tenant space, except anchor stores, provided with a secondary exit to the exterior or exit corridor shall be provided with tenant identification by business name or address. Letters and numbers shall be posted on the corridor side of the door, be plainly legible and contrast with their background.

(Add) **20.12.4.5 Maintenance.** Vacant tenant spaces shall be:

- (1) Kept free from the storage of any materials.
- (2) Separated from the remainder of the building by partitions of at least 0.5 inch (12.7 mm) gypsum board or an approved equivalent to the underside of the ceiling of the adjoining tenant spaces.
- (3) Without doors or other access openings other than one door that shall be kept key locked in the closed position except during that time when opened for inspection.
- (4) Kept free from combustible waste and be broom-swept clean.

(Add) **20.12.5 Storage and Display of Sparklers and Fountains.** The display and storage of consumer fireworks at retail establishments shall be in accordance with the provisions of the 2006 edition of NFPA 1124, *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, except as modified in sections 20.12.5.1 to 20.12.5.3, inclusive, of this code.

(Add) **20.12.5.1 Sparklers and Fountains** shall be under the visual supervision of a store employee or other responsible party while the store is open to the public.

(Add) **20.12.5.2 Sparklers and Fountains** shall not be displayed or stored within 5 feet (1.5 m) of any entrance or exit of any enclosed building or structure.

(Add) **20.12.5.3** The provisions of NFPA 1124, are amended for use in Connecticut as follows:

(Amd) **7.5.3 Storage Rooms.** Storage rooms containing Sparklers and Fountains, regardless of size, in a new or existing permanent store shall be protected with an automatic sprinkler system installed in accordance with NFPA 13, *Standard for the Installation of Sprinkler Systems*, or separated from the retail sales area by a fire barrier having a fire resistance rating of not less than 1 hour. The quantity of Sparklers and Fountains permitted in storage shall not exceed 3,600 cubic feet, including packaging. Such storage shall be segregated into areas of 1,200 cubic feet or less, separated by a minimum of 4 feet of clear space.

(Amd) **20.13 Business Occupancies Including Business Group B.**

(Add) **20.13.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Del) **20.13.3.3 New Interior Floor Finish.** Delete section.

(Amd) **20.14 Industrial Occupancies Including Factory Industrial Groups F-1 and F-2.**

(Amd) **20.14.4 Group H-5 Occupancies.** Group H-5 occupancies shall comply with the requirements of sections 20.14.4.1 to 20.14.4.4, inclusive, of this code and the CSFSC.

(Add) **20.14.4.1 Plans and Diagrams.** Plans and diagrams shall be maintained in approved locations indicating the approximate plan for each area, the amount and type of hazardous

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production materials (HPM) stored, handled and used, locations of shutoff valves for HPM supply piping, emergency telephone locations and locations of exits.

(Add) **20.14.4.2 Plan Updating.** The plans and diagrams required by section 20.14.4.1 of this code shall be maintained up to date and the fire code official and fire department shall be informed of all major changes.

(Add) **20.14.4.3 Emergency Response Team.** Responsible persons shall be designated as the on-site emergency response team and trained to be liaison personnel for the fire department. These persons shall aid the fire department in preplanning emergency responses, identifying locations where HPM is stored, handled and used, and be familiar with the chemical nature of such material. An adequate number of personnel for each work shift shall be designated.

(Add) **20.14.4.4 Emergency Drills.** Each on-site emergency response team shall conduct emergency drills on a regular basis, but not less than once every three months, and maintain records of drills conducted.

(Amd) **20.15 Storage Occupancies Including Storage Groups S-1 and S-2.**

(Add) **20.16.1.1.1 Permits.** Permits, if required, shall comply with section 1.12.6 of this code.

(Del) **20.17 Historical Buildings.** Delete section.

Chapter 21

Airports and Heliports

(Amd) **21.2.4.1** Airport terminal buildings shall be constructed in accordance with the CSFSC.

Chapter 22

Automobile Wrecking Yards

(Amd) **22.8 Burning Operations.** Burning operations shall be in accordance with Regulations of Connecticut State Agencies adopted by the Department of Energy and Environmental Protection pursuant to Title 22a of the Connecticut General Statutes.

Chapter 25

Grandstands and Bleachers, Folding and Telescopic Seating, and Membrane Structures

(Amd) **25.1.1** The location, protection, and maintenance of grandstands and bleachers, folding and telescopic seating, and membrane structures shall meet the requirements of this chapter. Seating facilities located in the open air or within enclosed or semi-enclosed structures, such as membrane structures and stadium complexes, shall comply with the CSFSC.

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(Del) **25.1.6.1** Delete Section

(Del) **25.1.6.2** Delete Section

(Amd) **25.5.1.1 Use of Membrane Roofs.** Membrane roofs shall be used in accordance with the following:

- (1) Membrane materials shall not be used where fire resistance ratings are required for walls or roofs.
- (2) Where every part of the roof, including the roof membrane, is not less than 240 inches (6100 mm) above any floor, balcony, or gallery, a noncombustible membrane shall be permitted to be used as the roof in any type of construction as permitted by the SBC.
- (3) With approval of the AHJ, membrane materials shall be permitted to be used where every part of the roof membrane is sufficiently above every significant fire potential such that the imposed temperature cannot exceed the capability of the membrane, including seams, to maintain its structural integrity.

(Del) **25.2** Delete section.

(Add) **25.5.3.1.1** The requirements of section 25.5.3 of this code do not apply to air-supported and air-inflated structures as defined in the Connecticut Mechanical Amusement Ride and Device Regulations, adopted pursuant to section 29-136 of the Connecticut General Statutes.

(Del) **25.6.4.3** Delete section.

(Del) **25.6.4.4** Delete section.

(Del) **Chapter 27 Manufactured Home and Recreational Vehicle Sites.** Delete chapter.

Chapter 28

Marinas, Boatyards, Marine Terminals, Piers, and Wharves

(Amd) **28.1.1** The operation of marinas, boatyards, yacht clubs, boat condominiums, docking facilities associated with residential condominiums, multiple-docking facilities at multiple-family residences, and all associated piers, docks and floats shall comply with NFPA 303, *Fire Protection Standard for Marinas and Boatyards*, and section 28.1 of this code.

Chapter 30

Motor Fuel Dispensing Facilities and Repair Garages

(Amd) **30.1.1.1** Motor fuel dispensing facilities, marine/motor fuel dispensing facilities, motor fuel dispensing facilities located inside buildings, and fleet vehicle motor fuel dispensing facilities shall comply with the provisions of the CSFSC, SBC, sections 30.1 and 30.3 of this code and NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*.

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(Amd) **30.2.1 Application.** The construction and protection of, as well as the control of hazards in, garages used for major repair and maintenance of motorized vehicles and any sales and servicing facilities associated therewith shall comply with the provisions of the CSFSC, SBC, sections 30.2 and 30.3 of this code and NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*.

Chapter 32

Motion Picture and Television Production Studio Soundstages and Approved Production Facilities

(Amd) **32.1 General.** The design, construction, operation, and maintenance of soundstages and approved production facilities used in motion picture and television productions shall comply with the CFSC, SBC, NFPA 140, *Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations* and this chapter.

Chapter 34

General Storage

(Del) **34.5.6 Security Service.** Delete section.

(Del) **34.8 Protection of Rubber Tires.** Delete section.

(Del) **34.9 Protection of Roll Paper.** Delete section.

(Del) **Chapter 37 Fixed Guideway Transit and Passenger Rail Systems.** Delete chapter.

Chapter 42

Refueling

(Amd) **42.2.1.1** Fuel processes at automotive service stations, service stations located inside buildings, and fleet vehicle service stations, shall comply with CSFSC, SBC, NFPA 30A, *Code for Motor Fuel Dispensing Facilities and Repair Garages*, and Sections 42.2 through 42.8.

Chapter 43

Spraying, Dipping, and Coating Using Flammable or Combustible Materials

(Amd) **43.1.1** Operations involving the spray application of flammable and combustible materials shall comply with the provisions of the CSFSC, SBC, NFPA 33, *Standard for Spray Application Using Flammable or Combustible Materials*, and section 43.1 of this code.

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Chapter 45

Combustible Fibers

(Del) **45.2.2** Delete section.

(Del) **45.7 Storage of Hay, Straw, and Other Similar Agricultural Products.** Delete section.

Chapter 50

Commercial Cooking Equipment

(Amd) **50.1.1*** The operation, inspection and maintenance of commercial cooking equipment having a commercial kitchen exhaust hood as required elsewhere in this code shall comply with this chapter and NFPA 96, Standard for ventilation Control and Fire Protection of Commercial Cooking Operations. This chapter shall not apply to Type II kitchen exhaust hoods as defined by the International Mechanical Code®.

(Amd) **50.2.1.6** All solid fuel cooking appliances shall be maintained as required in NFPA 96, Section 14.8 Procedures for Inspection, Cleaning, and Maintenance for Solid Fuel Cooking and Section 14.9 Minimum Safety Requirements: Fuel Storage, Handling, and Ash Removal for Solid Fuel Cooking.

(Amd) **Chapter 58 Gas Equipment and Piping.**

(Add) **58.1 General Provisions.**

(Add) **58.1.1 Application.**

(Add) **58.1.1.1** The installation of fuel gas piping systems, fuel gas utilization equipment, and related accessories shall comply with the requirements of this chapter, the CSFSC, SBC and NFPA 54 *National Fuel Gas Code*.

(Add) **58.1.1.2** Fuel gases include natural gas, manufactured gas, liquefied petroleum gas in the vapor phase only, liquefied petroleum gas-air mixtures, and mixtures of these gases, plus gas air mixtures within the flammable range with the fuel gas or the flammable component of a mixture being a commercially distributed product.

(Amd) **Chapter 59
Fire and Explosion Prevention During Cleaning and Purging of
Flammable Gas Piping Systems.**

(Add) **59.1 General Provisions.**

(Add) **59.1.1 Application.**

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(Add) **59.1.1.1** The cleaning and purging of new and existing flammable gas piping found in electric generating plants and in industrial, institutional, and commercial applications shall comply with the requirements of this chapter, the CSFSC, SBC and NFPA 56 *Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems*.

(Add) **59.1.1.2** Coverage of fuel gas piping systems shall extend from the point of delivery or source valve to the gas-consuming equipment isolation valve.

Chapter 60

Hazardous Materials

(Amd) **60.1.1 Applicability**. Occupancies containing high hazard contents shall comply with this chapter in addition to other applicable requirements of this code, the CSFSC, SBC, and NFPA 400, *Hazardous Materials Code*.

Chapter 61

Aerosol Products

(Amd) **61.1.1.1*** The manufacture, storage, use, handling and display of aerosol products shall comply with the requirements of this chapter, sections 60.1 to 60.4, inclusive, of this code, the CSFSC, SBC, and NFPA 30B, *Code for the Manufacture and Storage of Aerosol Products*.

Chapter 63

Compressed Gasses and Cryogenic Fluids

(Amd) **63.1.1.1*** The installation, storage, use and handling of compressed gases and cryogenic fluids in portable and stationary containers, cylinders, equipment, and tanks in all occupancies shall comply with the requirements of this chapter, sections 60.1 to 60.4, inclusive, of this Code, the CSFSC, SBC, and NFPA 55, *Compressed Gases and Cryogenic Fluids Code*.

(Amd) Chapter 65

Sparklers and Fountains and Flame Effects Before a Proximate Audience.

(Del) **65.1** Delete section.

(Del) **65.2** Delete section.

(Del) **65.3.1** Delete section.

(Del) **65.3.2** Delete section.

(Add) **65.4.3** The use of flame effect materials or devices governed by NFPA 160, *Standard for the Use of Flame Effects Before an Audience*, shall be approved by the State Fire Marshal.

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(Add) **65.4.4** When LP-Gas is used as the fuel source for flame effects before a proximate audience, and where a separation distance of 20 feet (6.1 meters) is not practical, reduction of distances shall be permitted with the approval of the State Fire Marshal.

(Del) **65.5** Delete section.

(Del) **65.6** Delete section.

(Del) **65.7** Delete section.

(Del) **65.8** Delete section.

(Del) **65.9** Delete section.

(Add) **65.10 Sale, Handling, and Storage of Sparklers and Fountains.**

(Add) **65.10.1 General Requirements.** Retail sales of sparklers and fountains shall comply with the requirements of this chapter and the requirements for consumer fireworks in NFPA 1124 the 2006 edition as amended by the State of Connecticut.

(Add) **65.10.1.1** The provisions of NFPA 1124, the 2006 edition are amended for use in Connecticut as follows:

(Amd) **7.3.7 Storage Rooms.** Storage rooms containing consumer fireworks, regardless of size, in a new or existing permanent store shall be protected with an automatic sprinkler system installed in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems, or separated from the retail sales area by a fire barrier having a fire resistance rating of not less than 1 hour. The quantity of fireworks permitted in storage shall not exceed 3,600 cubic feet, including packaging. Such storage shall be segregated into areas of 1,200 cubic feet or less, separated by a minimum of 4 feet of clear space.

(Add) **65.10.1.2 Permits.** Where required by shall comply with Section 1.12.

(Add) **65.10.1.3** Retail sales of consumer fireworks shall be limited to mercantile occupancies defined in 3.3.183.7

(Add) **65.10.2 Storage and Display of Sparklers and Fountains.**

(Add) **65.10.2.1** Sparklers and Fountains shall be under the visual supervision of a store employee or other responsible party while the store is open to the public.

(Add) **65.10.2.2** Sparklers and Fountains shall not be displayed or stored within 1.5 m (5 ft) of any entrance or exit of any enclosed building or structure.

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(Add) **65.10.2.3** The total quantity of Sparklers and Fountains on hand either displayed or in storage shall not exceed 227.2 (gross) [500 lb kg (gross)], including packaging, or 454.4 kg (gross) [1,000 lb (gross)] in a building protected throughout with an approved automatic sprinkler system installed in accordance with NFPA 13. A quantity in excess of these amounts is subject to approval by the State Fire Marshal.

(Add) **65.10.2.3.1** Where the actual weight of the pyrotechnic composition of Sparklers and Fountains is not known, 25 percent of the gross weight of the product, including packaging, shall be permitted to be used to determine the weight of the pyrotechnic composition.

(Add) **65.10.3 Noncomplying Fireworks.** The retail sales of fireworks that do not comply with the regulations of the U.S. Consumer Product Safety Commission as set forth in 16 CFR 1500 and 1507, inclusive, the regulations of the U.S. Department of Transportation as set forth in 49 CFR 100 to 178, inclusive, and section 29-356 of the Connecticut General Statutes, including their related storage and display for sale, shall be prohibited.

Chapter 66

Flammable and Combustible Liquids

(Amd) **66.1.1*** The storage, handling, and use of flammable and combustible liquids, including waste liquids, as defined and classified in this chapter, shall comply with this chapter, sections 60.1 to 60.4, inclusive, of this code, the CSFSC, SBC, and NFPA 30 *Flammable and Combustible Liquids Code*.

Chapter 69

Liquefied Petroleum Gas and Liquefied Natural Gases

(Amd) **69.1.1.1** The storage, use, and handling of liquefied petroleum gases (LP-Gas) and the maintenance and installation of LP-Gas systems shall comply with the requirements of this chapter, sections 60.1 to 60.4, inclusive, of this Code, the CSFSC, SBC, and *NFPA 58, Liquefied Petroleum Gas Code*.

(Add) **69.1.3 Written Emergency Plan.** A written emergency response plan is required for industrial plants, bulk plants, and dispensing stations. The facility emergency plan, when required, shall be in writing and amended as required at least every two years. Written documentation of the current emergency plan shall be maintained at the facility and shall be provided upon written request to the local fire marshal and emergency response agencies. The fire safety analysis and special fire protection provisions referred to in section 6.27 of NFPA 58, *Liquefied Petroleum Gas Code*, shall be incorporated into the emergency plan as appropriate.

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(Add) **69.2.1.4.1.3** LP-Gas fuel suppliers shall affix and maintain in a legible condition, their firm name(s) and emergency telephone number(s) in a readily visible location on or near LP-Gas supplier-owned Department of Transportation (DOT) and American Society of Mechanical Engineers (ASME) containers installed on a consumer's premises.

(Add) **69.2.1.4.1.3.1** The firm name(s) and emergency telephone number(s) on the containers shall be at least one half (1/2) inch high and of contrasting color to the container.

(Add) **69.2.1.4.1.3.2** The emergency telephone number(s) shall be staffed 24 hours a day to ensure that the LP-Gas supplier is available in the event of an emergency at the consumer's premises.

(Add) **69.4.1.3** Cylinders, tanks or containers shall be filled, evacuated or transported only by the owner of the cylinder, tank or container or upon the owner's authorization.

Chapter 74

Ammonium Nitrate

(Amd) **74.1** The storage of ammonium nitrate in the form of crystals, flakes, grains, or prills including fertilizer grade, dynamite grade, nitrous oxide grade, technical grade and other mixtures containing 60 percent or more by weight of ammonium nitrate shall comply with the Connecticut Explosives Code adopted pursuant to section 29-349 of the Connecticut General Statutes and NFPA 400, *Hazardous Materials Code*.

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