

The Connecticut General Assembly

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Memorandum

To: Senator Paul Doyle
Representative Christie Carpino
Senator Kevin Kelly
Representative Susan Johnson

From: Kumi Sato

Date: July 16, 2018

Subject: Proposed 2018 Connecticut State Fire Prevention Code Resubmittal

This is a resubmittal of the proposed **2018 Connecticut State Fire Prevention Code** that was rejected without prejudice at the committee's meeting on May 22, 2018. In addition to the resubmitted Fire Prevention Code, the agency has provided a written explanation, for the committee's consideration, of any change the agency did not make in response to the May 22, 2018 LCO memorandum, including any item listed in the "Additional Comments" section of said memo. The resubmittal addresses the substantive concerns and technical corrections noted in the May 22, 2018 report. There are additional technical corrections.

Attached are the pages noted in the table below from the resubmittal of the proposed Connecticut State Fire Prevention Code, with handwritten comments that make recommendations for corrections.

Substantive Concerns:

Additional Comments:

LCO COMMENTS	Page Numbers
Technical corrections	1, 3, 6, 14, 19, 21, 23, 28, 29, 35, 36, 38, 40, 42, 43, 44, 45, 47

Recommendation:

X	Approval in whole
X	with technical corrections
	with deletions
	with substitute pages
	Disapproval in whole or in part
	Rejection without prejudice

Sec. 29-291e. Procedure for adoption and amendment of State Fire Prevention Code. (a) For the purposes of this section, "proposed code" means a proposal by the State Fire Marshal, in coordination with the advisory committee for a new State Fire Prevention Code or for a change in, addition to or repeal of any provision of the State Fire Prevention Code and "advisory committee" means the advisory committee established under subsection (b) of section 29-291a.

(b) Notwithstanding the provisions of chapter 54, the adoption of the State Fire Prevention Code and any amendments thereto shall not be required to comply with the provisions of chapter 54, except as provided in this section.

(c) Prior to the adoption of the State Fire Prevention Code and any amendments thereto, the State Fire Marshal shall (1) post any proposed code, a statement of purpose for which the proposed code is proposed, a fiscal note associated with compliance with the proposed code prepared pursuant to section 4-168 and a regulatory flexibility analysis prepared pursuant to section 4-168a on the Internet web site of the Department of Administrative Services, (2) give notice electronically to the joint standing committee of the General Assembly having cognizance of matters relating to public safety and security, (3) give notice to any person who has requested the State Fire Marshal for advance notice of the proposed code adoption proceedings, (4) provide for a public comment period of forty-five days following the posting of such proposed code, fiscal note and regulatory flexibility analysis, and (5) hold a public hearing on the proposed code not less than twenty nor more than thirty-five days after such posting.

(d) After the close of the public comment period, the State Fire Marshal, in coordination with the advisory committee, shall respond to each written and oral comment respecting the proposed code received during the public comment period and at the public hearing. Such response shall include any change made to the proposed code if applicable, and the rationale for such change. The State Fire Marshal shall post such response on the Internet web site of the Department of Administrative Services not later than thirty days after the close of the public comment period.

(e) The State Fire Marshal, in coordination with the advisory committee, shall create and maintain a code-making record for each proposed code, submit such code-making record electronically to the standing legislative regulation review committee and the joint standing committee of the General Assembly having cognizance of matters relating to public safety and security, and post such code-making record on the Internet web site of the Department of Administrative Services. Such code-making record shall

include, but need not be limited to: (1) The final wording of the proposed code in a format consistent with a nationally recognized model building code, (2) the fiscal note prepared pursuant to subsection (c) of this section, (3) the regulatory flexibility analysis prepared pursuant to subsection (c) of this section, (4) all written and oral comments received during the public comment period, and (5) the response to such comments prepared pursuant to subsection (d) of this section.

(f) The standing legislative regulation review committee shall have not more than forty-five days from the date the code-making record is submitted to the committee pursuant to subsection (e) of this section to convene a meeting to approve, disapprove or reject without prejudice the proposed code, in whole or in part. If the proposed code is withdrawn, the State Fire Marshal shall resubmit the proposed code and the committee shall have not more than forty-five days from the date of such resubmittal to convene a meeting to approve, disapprove or reject without prejudice the resubmitted proposed code. If the committee notifies the State Fire Marshal in writing that it is waiving its right to convene a meeting or does not act on a proposed code or a resubmitted proposed code, as the case may be, within such forty-five-day period, the proposed code or resubmitted proposed code shall be deemed to be approved by the committee.

(g) If the committee disapproves a proposed code, in whole or in part, the committee shall notify the State Fire Marshal of the disapproval and the reasons for the disapproval. The State Fire Marshal shall not take any action to implement such disapproved code, except that the State Fire Marshal may submit a substantively new proposed code in accordance with the provisions of this section, provided the General Assembly may reverse such disapproval in accordance with the provisions of section 4-171.

(h) If the committee rejects a proposed code without prejudice, in whole or in part, the committee shall notify the State Fire Marshal of the reasons for the rejection and the State Fire Marshal shall resubmit the proposed code in revised form to the committee not later than thirty days after the date of rejection without prejudice. Each resubmission of the proposed code under this subsection shall include a summary of any revisions to the proposed code. The committee shall have not more than forty-five days after the receipt of the resubmittal to review and take action on such resubmitted proposed code in the same manner as provided in subsection (f) of this section.

(i) The State Fire Prevention Code or any amendment thereto approved or deemed approved by the committee pursuant to subsection (f) of this section is effective and enforceable against any person or party upon its posting on the Internet web site of the Department of Administrative Services, except that: (1) If a later date is required by statute or specified in the code, the later date is the effective date, and (2) a code may not be effective before the effective date of the public act requiring or permitting the code. Such posting shall include a statement by the State Fire Marshal certifying that the electronic copy of the code is a true and accurate copy of the code approved or deemed approved in accordance with subsection (f) of this section. The electronic copy of the State Fire Prevention Code posted on the Internet web site of the Department of Administrative Services shall be the official version for all purposes, including all legal and administrative proceedings.

(j) No provision of the State Fire Prevention Code or any amendment thereto adopted after May 31, 2016, is valid unless adopted in substantial compliance with the requirements of this section. A proceeding to contest any provision of the code on the ground of noncompliance with the requirements of this section shall be commenced within two years from the effective date of the code.

(k) The State Fire Marshal shall advise the public concerning how to obtain a copy of the State Fire Prevention Code and any amendments thereto.

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 Prevention Code, 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 of this code 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 as defined in the 2015 International Residential Code portion of the 2018 State Building Code) 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 (SBC) 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 2018 State Building Code 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. 100.10 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 in section 16-1 of the Connecticut General Statutes.

(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 subsection (c) and (d) of this section. Upon the request of any person determined to have the right to appeal or when the State Fire Marshal has reason to believe that such local fire marshal has misconstrued or misinterpreted any provision of this code, the initial determination of a local fire marshal may be reviewed by the State Fire Marshal.

(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) Except as provided under subsection (d) of this section, 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 the 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, I-1, M selling consumer fireworks (1.4G), and H-3 containing consumer fireworks (1.4G).
- (2) Inspections every two years for the occupancy classifications; A-3, H-2, I-2, I-3, I-4, B-Medical and B-College.

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 (CSFSC).

(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 CSFSC 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.

(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.

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

Chapter 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 code 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.

(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, www.nfpa.org

<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 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/Continuity of Operations 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, 2012 edition
NFPA 5000™	Building Construction and Safety Code™ - See the State Building Code

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

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.
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 and 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 Emergency Services and Public Protection

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 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.

- (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) **3.3.278 Consumer Fireworks, 1.4G.** *(Formerly known as Class C, Common Fireworks)*
Any small fireworks device designed primarily to produce visible effects by combustion that complies with the construction, chemical composition, and labeling as set forth in the U.S. Consumer Products Safety Commission in 16 CFR Parts 1500 and 1507. Some small devices designed to produce audible effects are included, such as whistling devices, ground devices containing 0.8 gr (50 mg) or less of explosive composition (salute powder), and aerial devices containing 2 gr (130 mg) or less of explosive composition (salute powder) per explosive unit. See also sections 29-356 and 29-357 of the Connecticut General Statutes.

(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 *section*.

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

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

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

(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**

(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 AHJ 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:

- (1) When the premises have been cleared of all combustible materials and debris and, in the opinion of the AHJ, 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. Such persons shall maintain the premises 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.

(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 of this code 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
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.

all of the following requirements are met

(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.

(Add) **13.7.1.4.2.1** The responsible person conducting an inspection, testing, or maintenance shall make records of all inspections, tests, and maintenance of the systems and its components and make the records available to the AHJ upon request. In the event of a system deficiency discovered during a required inspection or other event, the system shall be immediately tagged by such responsible person conducting the inspection noting the issue and date. The discovered deficiency(cies) shall be noted on the inspection report and a copy of such report shall be immediately forwarded to the AHJ. Contact information for the responsible person shall be included in the report.

but prior to October 1, 1985,

(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 for new occupancy was issued prior to October 1, 1976, smoke 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) Otherwise 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 that do receive the initial notification of the alarm 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 CSFSC 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.

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.

(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.

Part IV section 17.6

(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~~ ^{to} 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 CSFSC.**

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

(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.

(Del) **20.6.6.3 New Interior Finish.** Delete section

(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.

(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~~ ^{AHJ} for approval and shall be maintained on site for immediate reference by responding fire service personnel.

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

(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 Fireworks, 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 Fireworks, 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.

Chapter 21

Airports and Heliports

*letter
Spacing to match
rest of code*

(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

(Amd) 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.

(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) **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 to 42.8, inclusive.

(Add) **42.12 On Demand Fueling.**

2, of this code

(Add) **42.12.1** On demand fueling shall be in accordance with the requirements of NFPA 30A.

(Add) **42.12.1.1** The 2018 edition of NFPA 30A as adopted by this code are amended for use in the State of Connecticut as follows:

NFPA 30A Section 14.2.3.1 The vehicle operator training shall be approved by the State Fire Marshal.

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.

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 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*.

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(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.**

(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

Explosives, Fireworks, Model Rocketry; including Sparklers, Fountains and Flame Effects Before a Proximate Audience

(Amd) **65.1.1** The storage, use, and handling of explosives, fireworks, and model rockets shall be in accordance with the requirements of this Chapter and the applicable provisions of Connecticut General Statutes sections 29-343 to 29-370, inclusive, and the applicable codes adopted pursuant thereto.

(Del) **65.1.2** Delete section.

(Amd) **65.2.1** The construction, handling, and use of fireworks intended solely for the outdoor display as well as the general conduct and operation of the display shall comply with the requirements of the applicable provisions of Connecticut General Statutes sections 29-356 to 29-366, inclusive, and the applicable codes adopted pursuant thereto.

(Del) **65.2.2** Delete section.

(Amd) **65.3.1** The use of pyrotechnic special effects in the performing arts in conjunction with theatrical, musical, or any similar productions before a proximate audience, performers, or support personnel shall comply with the applicable provisions of Connecticut General Statutes sections 29-356 to 29-366 inclusive, and the applicable codes adopted pursuant thereto.

(Amd) **65.3.2** Where any of the following conditions exist, they shall comply with the applicable provisions of Connecticut General Statutes sections 29-343 to 29-370, inclusive, and the applicable codes adopted pursuant thereto.

- (1) Any indoor display of pyrotechnic special effects.
- (2) Any outdoor use of pyrotechnic special effects at distances less than those required for outdoor effects as prescribed by the applicable provisions of Connecticut General

Statutes sections 29-343 to 29-370, inclusive, and the applicable codes adopted pursuant thereto.

- (3) The use of pyrotechnics special effects during any videotaping, audiotaping, digital recording, or filming of any television, radio, or movie production, if such production is before a proximate audience.
- (4) The rehearsal of any production in which pyrotechnic special effects are used.

(Del) **65.3.3 Permits.** 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.

(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.

(Add) **65.4.5** Each flame effect device fired during a performance shall be separated from the audience by a minimum of 15 feet, except:

- 1) Where specified at a greater distance by the manufacturer.
- 2) As approved by the State Fire Marshal.

(Del) **65.5** Delete section.

(Amd) **65.6 Model Rocketry.** The design, construction, limitations of propellant mass and power, and reliability of model rocket motors and model rocket model reloading kits and their components produced commercially for sale to or use by the public for purposes of education, recreation, and sporting competitions shall comply with the applicable provisions of Connecticut General Statutes sections 29-367 to 29-370, inclusive, and the applicable codes adopted pursuant thereto.

(Del) **65.7** Delete section.

(Del) **65.8** Delete section.

(Amd) **65.9.1** The manufacture, transportation, storage, sale and use of explosive material shall comply with the requirements of the applicable provisions of Connecticut General Statutes sections 29-343 to 29-355a, inclusive, and the applicable codes adopted pursuant thereto.

(Del) **65.9.2 Permits.** Delete section.

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

(Add) **65.10.1 General Requirements.** Retail sales of fireworks, sparklers and fountains shall comply with the requirements of this chapter and the requirements for consumer fireworks in NFPA 1124, 2006 edition, as amended by sections 12.5.1 to 12.5.3, inclusive of this code.

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

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 ^{DUT} 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.

(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*.