

**INITIAL EXPRESS TERMS
FOR PROPOSED BUILDING STANDARDS
OF THE STATE FIRE MARSHAL
REGARDING THE 2022 CALIFORNIA MECHANICAL CODE,
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4
(SFM 04/20)**

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

If using assistive technology, please adjust your settings to recognize underline, strikeout, italic and ellipsis.

LEGEND for EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)

- Model Code language appears upright
- Existing California amendments appear in *italic*
- Amended model code or new California amendments appear *underlined & italic*
- Repealed model code language appears upright and in ~~strikeout~~
- Repealed California amendments appear in ~~*italic and strikeout*~~
- Ellipsis (...) indicate existing text remains unchanged

The Office of the State Fire Marshal (SFM) proposes to adopt the 2021 edition of the Uniform Mechanical Code (UMC) into the 2022 edition of the California Mechanical Code (CMC). SFM further proposes to:

Repeal the adoption by reference of the 2018 Uniform Mechanical Code and incorporate and adopt by reference in its place the 2021 Uniform Mechanical Code for application and effectiveness in the 2022 California Mechanical Code.

Repeal certain amendments to the 2018 Uniform Mechanical Code and/or California Building Standards not addressed by the model code that are no longer necessary.

Adopt new building standards or necessary amendments to the 2021 Uniform Mechanical Code that address inadequacies of the 2021 Uniform Mechanical Code as they pertain to California laws.

Bring forward previously existing California building standards or amendments, which represent no change in their effect from the 2019 California Building Standards Code.

Codify non-substantive editorial and formatting amendments from the format based upon the 2018 Uniform Mechanical Code to the format of the 2021 Uniform Mechanical Code.

INITIAL EXPRESS TERMS

CHAPTER 1 ADMINISTRATION DIVISION I CALIFORNIA ADMINISTRATION

Item SFM 04/20-1-1

Chapter 1, Administration, Division I, California Administration, Section 1.1.1 Title

1.1.1 Title. *These regulations shall be known as the California Mechanical Code, may be cited as such and will be referred to herein as “this code.” The California Mechanical Code is Part 4 of thirteen parts of the official compilation and publication of the adoption, amendment, and repeal of building regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2018~~ 2021 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

Item SFM 04/20-1-2

Chapter 1, Administration, Division I, California Administration, Section 1.1.0 General through 1.1.12

[The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.1.0 through 1.1.12 with modification.]

Item SFM 04/20-1-3

Chapter 1, Administration, Division I, California Administration, Section 1.1.0 General through 1.1.12

Institutional, educational or any similar occupancy. *Any building or structure used or intended for use as an asylum, jail, prison, mental hospital, hospital, sanitarium, home for the ~~aged~~ elderly, children’s nursery, children’s home or institution, school or any similar occupancy of any capacity.*

Authority cited—Health and Safety Code Section 13143.

Reference—Health and Safety Code Section 13143.

Item SFM 04/20-1-4

Chapter 1, Administration, Division I, California Administration, Section 1.11.0 through 1.11.11

[The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.11.0 through 1.11.11 with modification]

Item SFM 04/20-1-5

Chapter 1, Administration, Division I, California Administration, Section 1.11.4.4 Fire Clearance Preinspection

1.11.4.4 Fire Clearance Preinspection. Pursuant to Health and Safety Code Section 13235, Fire Clearance Preinspection, fee, upon receipt of a request from a prospective licensee of a community care facility, as defined in Section 1502, of a residential care facility for the elderly, as defined in Section 1569.2, or of a child day care facility, as defined in Section 1596.750, the local fire enforcing agency, as defined in Section 13244, or State Fire Marshal, whichever has primary jurisdiction, shall conduct a preinspection of the facility prior to the final fire clearance approval. At the time of the preinspection, the primary fire enforcing agency shall price consultation and interpretation of the fire safety regulations and shall notify the prospective licensee of the facility in writing of the specific fire safety regulations which shall be enforced in order to obtain fire clearance approval. A fee equal to, but not exceeding, the actual cost of the of the preinspection services not more than \$50.00 may be charged for the preinspection of a facility, with a capacity to serve 25 or fewer persons. A fee of not more than \$100.00 may be charged for a preinspection of a facility with a capacity to serve 26 or more persons.

Item SFM 04/20-1-6

Chapter 1, Administration, Division I, California Administration, Section 1.11.4.5 Care Facilities

1.11.4.5 Care Facilities. The primary fire enforcing agency shall complete the final fire clearance inspection for a community care facility, residential care facility for the elderly, or child day care facility within 30 days of receipt of the request for the final inspection, or as of the date the prospective facility requests the final precicensure inspection by the State Department of Social Services, whichever is later.

Pursuant to Health and Safety Code Section 13235, a preinspection fee equal to, but not exceeding, the actual cost of the of the preinspection services of not more than \$50.00 may be charged for the preinspection of a facility, with a capacity to serve 25 or less clients. A fee of not more than \$100.00 may be charged for a preinspection of a facility with a capacity to serve 26 or more clients.

Pursuant to Health and Safety Code Section 13131.5, a reasonable final inspection fee, not to exceed the actual cost of inspection services necessary to complete a final inspection may be charged for occupancies classified as residential-care facilities for the elderly (RCFE).

Pursuant to Health and Safety Code Section 1569.84, neither the State Fire Marshal nor any local public entity shall charge any fee for enforcing fire inspection regulations pursuant to state law or regulation or local ordinance, with respect to residential-care facilities for the elderly (RCFE) which service six or fewer persons.

Item SFM 04/20-1-7

**Chapter 1, Administration, Division I, California Administration, Section 1.11.6
Certificate of Occupancy**

1.11.6 Certificate of Occupancy. *A Certificate of Occupancy shall be issued as specified in Title 24, Part 2, California Building Code, Section 111.*

Exception: *~~Group R, Division 3 and Group U occupancies. Certificates of occupancy are not required for work exempt from permits in accordance with Section 105.2 of the California Building Code.~~*

Item SFM 04/20-1-8

**Chapter 1, Administration, Division I, California Administration, Section 1.11.7
Temporary Structures and Uses**

1.11.7 Temporary Structures and Uses. *See Title 24, Part 2, California Building Code, Section 1078.*

**CHAPTER 1
ADMINISTRATION**

***DIVISION II*
ADMINISTRATION**

Item SFM 04/20-1-9

Chapter 1, Administration, Division II, Administration, Section 1.11.7

[The SFM proposes to not adopt Chapter 1, Administration, Division II Administration]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

**CHAPTER 2
DEFINITIONS**

Item SFM 04/20-2-1
Chapter 2, Definitions

[The SFM proposes to adopt Chapter 2 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 3
GENERAL REGULATIONS

Item SFM 04/20-3-1
Chapter 3, General Regulations

[The SFM proposes to adopt Chapter 3 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 4
VENTILATION AIR SUPPLY

Item SFM 04/20-4-1
Chapter 4, Ventilation Air Supply

[The SFM proposes to adopt Chapter 4 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,

1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 5 EXHAUST SYSTEMS

Item SFM 04/20-5-1 Chapter 5, Exhaust Systems

[The SFM proposes to adopt Chapter 5 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 6 DUCT SYSTEMS

Item SFM 04/20-6-1 Chapter 6, Duct Systems

[The SFM proposes to adopt Chapter 6 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources

Code Sections 4201 through 4204

CHAPTER 7 COMBUSTION AIR

Item SFM 04/20-7-1

Chapter 7, Combustion Air

[The SFM proposes to adopt Chapter 7 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 8 CHIMNEYS AND VENTS

Item SFM 04/20-8-1

Chapter 8, Chimney and Vents

[The SFM proposes to adopt Chapter 8 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 9 INSTALLATION OF SPECIFIC EQUIPMENT

Item SFM 04/20-9-1

Chapter 9, Installation of Specific Equipment

[The SFM proposes to adopt Chapter 9 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

**CHAPTER 10
BOILERS AND PRESSURE VESSELS**

Item SFM 04/20-10-1

Chapter 10, Boilers and Pressure Vessels

[The SFM proposes to adopt Chapter 10 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

**CHAPTER 11
REFRIGERATION**

Item SFM 04/20-11-1

Chapter 11, Refrigeration

[The SFM proposes to adopt Chapter 11 with existing amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502,

1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 12 HYDRONICS

Item SFM 04/20-12-1 Chapter 12, Hydronics

[The SFM proposes to not adopt Chapter 12.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 13 FUEL GAS PIPING

Item SFM 04/20-13-1 Chapter 13, Fuel Gas Piping

[The SFM proposes to adopt Chapter 13 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 14 PROCESS PIPING

Item SFM 04/20-14-1 Chapter 14, Process Piping

[The SFM proposes to adopt Chapter 14 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 15 SOLAR ENERGY SYSTEMS

Item SFM 04/20-15-1 Chapter 15, Solar Energy Systems

[The SFM proposes to not adopt Chapter 15.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 16 STATIONARY POWER PLANTS

Item SFM 04/20-16-1
Chapter 16, Stationary Power Plants

[The SFM proposes to adopt Chapter 16 without amendments.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 17
REFERENCED STANDARDS

[The SFM proposes to adopt Chapter 17 with amendments.]

Item SFM 04/20-17-1
Chapter 17, NFPA 2 Hydrogen Technologies Code

NFPA 2-2016¹⁹

Item SFM 04/20-17-2
Chapter 17, NFPA 10 Portable Fire Extinguishers

NFPA 10-2018²¹

Item SFM 04/20-17-3
Chapter 17, NFPA 13 Installation of Sprinkler Systems

NFPA 13-2019²²
****See California Fire Code for amendments***

Item SFM 04/20-17-4
Chapter 17, NFPA 17 Dry Chemical Extinguishing Systems

NFPA 17-2017²⁰

Item SFM 04/20-17-5
Chapter 17, NFPA 17A Wet Chemical Extinguishing Systems

NFPA 17A-201720

Item SFM 04/20-17-6

Chapter 17, NFPA 30A Motor Fuel Dispensing Facilities and Repair Garages

NFPA 30A-201821

Item SFM 04/20-17-7

Chapter 17, NFPA 58 Liquefied Petroleum Gas Code

NFPA 58-201720

Item SFM 04/20-17-8

Chapter 17, NFPA 70 National Electrical Code

NFPA 70-201720

***See California Electrical Code for amendments**

Item SFM 04/20-17-9

Chapter 17, NFPA 654 Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids

NFPA 654-201720

Item SFM 04/20-17-10

Chapter 17, NFPA 853 Installation of Stationary Fuel Cell Power Systems

NFPA 853-201520

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

APPENDICES

Item SFM 04/20-18-1

Appendices, Appendix A- H

[The SFM proposes to not adopt Appendix A - H.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204

USEFUL TABLES

Item SFM 04/20-19-1

Useful Tables, Appendix A- H

[The SFM proposes to adopt Useful Tables without amendment.]

Notation:

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.45, 1597.46, 1597.54, 1597.65, 13108, 13108.5, 13114, 13143, 13143.2, 13143.6, 13146, 13210, 13211, 17921, 18949.2, 25500 through 25545, Government Code Section 51189, Public Education Code 17074.50

Reference(s): Health and Safety Code Sections 13143, 13211, 18949.2, 25500 through 25545, Government Code Sections 51176, 51177, 51178 and 51179, Public Resources Code Sections 4201 through 4204