

**INITIAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF THE STATE FIRE MARSHAL
REGARDING PROPOSED CHANGES TO
CALIFORNIA RESIDENTIAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2.5
2018 TRIENNIAL RULEMAKING CYCLE**

(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. (PART 1 – ADMINISTRATIVE CODE))

LEGEND FOR EXPRESS TERMS

1. Existing California amendments or code language being modified are in italics when they appear in the model code text: All such language appears in *italics*, modified language is underlined.
2. New California amendments: All such language appears underlined and in italics.
3. Repealed text: All such language appears in ~~strikeout~~.

NOTE OF EXPLANATION:

For the **2018 Triennial Code Adoption Cycle**, the Express Terms are displayed as follows:

****PART 1**** Includes the California Amendments SFM proposes to bring forward from the 2015 California Residential Code with changes for adoption into the 2019 California Residential Code; the text is provided for context and the convenience of the code user.

****PART 2**** Includes the standards SFM proposes to bring forward from the 2015 California Residential Code with editorial changes as shown, and also identifies the model code standards from the 2018 International Residential Code SFM proposes for adoption into the 2019 California Residential Code.

SUMMARY OF REGULATORY ACTION

SFM PROPOSES TO:

****PART 1****

1. Bring forward existing California Amendments from the 2016 California Residential Code for adoption into the 2019 California Residential Code with amendment.
2. Adopt standards from the 2018 International Residential Building Code into the 2019 California Residential Code without amendment, except for editorial corrections.

****PART 2****

1. Bring forward existing California Amendments from the 2016 California Residential Code for adoption into the 2019 California Residential Code **without amendments.**
2. Repeal 2016 California Amendments, which are **not** brought forward into the 2019 California Residential Code.
3. Adopt standards from the 2018 International Residential Building Code into the 2019 California Residential Code **without amendment.**
4. Adopt standards from the 2018 International Residential Building Code into the 2019 California Residential Code **with editorial amendment.**

INITIAL EXPRESS TERMS

****PART 1****

Item 1. WUI Work Group

**SECTION R337
MATERIALS AND CONSTRUCTION
METHODS FOR EXTERIOR WILDFIRE EXPOSURE**

...

SECTION R337.2

...

[R337.1.3]

R337.1.3 Application. *New buildings located in any Fire Hazard Severity Zone or any Wildland-Urban Interface Fire Area designated by the enforcing agency constructed after the application date shall comply with the provisions of this chapter.*

Exceptions:

1. *Buildings of an accessory character classified as a Group U occupancy and not exceeding 120 square feet in floor area, when located at least 30 feet from an applicable building.*
2. *Buildings of an accessory character classified as Group U occupancy of any size located least 50 feet from an applicable building.*
3. *Buildings classified as a Group U Agricultural Building, as defined in Section 202 of this code (see also Appendix C – Group U Agricultural Buildings), when located at least 50 feet from an applicable building.*

4. *Additions to and remodels of buildings originally constructed prior to the applicable application date.*
5. *Group C, special buildings conforming to the limitations specified in Section 450.4.1.*

For the purposes of this section and 710A, applicable building includes all buildings that have residential, commercial, educational, institutional, or similar occupancy type use.

...

[HEAVY TIMBER]

~~***HEAVY TIMBER.** A type of construction classification specified in Section 602. For use in this chapter, heavy timber shall be sawn lumber or glue laminated wood with the smallest minimum nominal dimension of 4 inches (102 mm). Heavy Timber walls or floors shall be sawn or glue laminated planks splined, tongue-and-grove, or set close together and well spiked.*~~

...

[R337.7.3]

R337.7.3 Exterior walls. *The exterior wall covering or wall assembly shall comply with one of the following requirements:*

1. *Noncombustible material*
2. *Ignition-resistant material*
3. ~~*Heavy timber exterior wall assembly. Sawn lumber or glue laminated wood with the smallest minimum nominal dimension of 4 inches (102 mm). Sawn or glue-laminated planks splined, tongue-and-grove, or set close together and well spiked.*~~
4. *Log wall construction assembly*
5. *Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM Standard 12-7A-1*

Exception: *Any of the following shall be deemed to meet the assembly performance criteria and intent of this section:*

1. *One layer of 5/8-inch Type X gypsum sheathing applied behind the exterior covering or cladding on the exterior side of the framing*
2. *The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual.*

...

[R337.7.8]

R337.7.8 Underfloor protection. *The underfloor area of elevated or overhanging buildings shall be enclosed to grade in accordance with the requirements of this chapter or the underside of the exposed underfloor shall consist of one of the following:*

1. *Noncombustible material*

2. Ignition-resistant material

3. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection

4. The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the floor including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual.

5. The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in either of the following:

- 5.1. SFM Standard 12-7A-3; or
- 5.2. ASTM E2957

Exception: ~~Heavy timber~~ Structural columns and beams do not require protection when constructed with sawn lumber or glue-laminated wood with the smallest minimum nominal dimension of 4 inches (102 mm). Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked.

...

[R337.7.9]

R337.7.9 Underside of appendages. When required by the enforcing agency the underside of overhanging appendages shall be enclosed to grade in accordance with the requirements of this chapter or the underside of the exposed underfloor shall consist of one of the following:

1. Noncombustible material

2. Ignition-resistant material

3. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection

4. The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the floor including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual

5. The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in either of the following:

- 5.1. SFM Standard 12-7A-3; or
- 5.2. ASTM E2957

Exception: ~~Heavy timber~~ Structural columns and beams do not require protection when constructed with sawn lumber or glue-laminated wood with the smallest minimum nominal dimension of 4 inches (102 mm). Sawn or glue-laminated planks splined, tongue-and-groove, or set close together and well spiked.

...

[R337.8.2.2]

R337.8.2.2 Operable Skylights. Operable skylights shall be protected by a non-combustible mesh screen where the dimensions of the openings in the screen shall not exceed 1/8-inch (3.2mm).

708A.2.23 Structural glass veneer. The wall assembly behind structural glass veneer shall comply with Section 707A.3.

...

[R337.8.4]

R337.8.4 Garage Door Perimeter Gap Weather stripping. Exterior garage doors shall be provided with weather stripping to resist the intrusion of embers from entering by preventing through gaps between doors and door openings, at the bottom, sides and tops of doors, from exceeding gaps exceed 1/8-inch (3.2 mm). Weather stripping or seals shall be installed on the bottom, sides, and tops of doors to reduce gaps between doors and door openings to 1/8-inch (3.2 mm) or less. Gaps between doors and door openings shall be controlled by one of the following methods:

1. Weather stripping products made of materials that: (a) have been tested for tensile strength in accordance with ASTM D638 (Standard Test Method for Tensile Properties of Plastics) after exposure to ASTM G155 (Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials) for a period of 2000 hours, where the maximum allowable difference in tensile strength values between exposed and non-exposed samples does not exceed 10% , and (b) exhibit a V-2 or better flammability rating when tested to UL 94, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
2. Door overlaps onto jambs and headers.
3. Garage door jambs and headers covered with metal flashing.

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[R337.9.4.2]

R337.9.4.2 Conditions of acceptance for ASTM E2726. The ASTM E2726 test shall be conducted, using a 2.2lb (1kg) burning "Class A" size 12" x 12" x 2.25" (300 mm x 300 mm x 57 mm) roof test brand, on a minimum of three test specimens and the conditions of acceptance in 1 and 2 below shall be met. If any one of the three tests does not meet the conditions of acceptance, three additional tests shall be run. All of the additional tests shall meet the conditions of acceptance.

1. Absence of sustained flaming or glowing combustion of any kind at the conclusion of the 40- min observation period
2. Absence of falling particles that are still burning when reaching the burner or floor.

...

[R337.9.5]

R337.9.5 Requirements for type of ignition-resistant material in Section R337.9.3, item (67): The material shall be tested in accordance with ASTM E2632 and shall comply with the following condition of acceptance. The ASTM E2632 test shall be conducted on a minimum of three test specimens and the peak heat release rate shall be less than or equal to 25 kW/ft² (269 kW/m²). If any one of the three tests does not meet the conditions of acceptance, three additional tests shall be run. All of the additional tests shall meet the condition of acceptance.

...

[R337.10.2]

R337.10.2 Applicability. The provisions of this section shall apply to buildings covered by Section 701A.3 Exception 1. This section shall also apply to specified attached and detached miscellaneous structures that require a building permit, including but not limited to; trellises, arbors, patio covers, ~~carports~~, gazebos, and similar structures.

Exceptions.

1. Decks shall comply with the requirements of Section 709A.
2. Awnings and canopies shall comply with the requirements of Section 3105.
3. Exterior wall architectural trim, embellishments, and fascias.
4. ~~Roof or wall top cornice projections and similar assemblies.~~

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.

Item 2. Photovoltaic system

[Delete amendment and adopt model language]

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

~~**Exceptions:**~~

1. ~~Detached, nonhabitable structures, including but not limited to, detached garages, parking shade structures, carports, solar trolisses, and similar structures shall not be required to provide roof access.~~
2. ~~Roof access, pathways, and setbacks need not be provided where the fire code official has determined that rooftop operations will not be employed.~~
3. ~~These requirements shall not apply to roofs with slopes of 2 units vertical in 12 units horizontal (2:12) or less.~~

~~**R324.6.1 Pathways.** Not less than two minimum 36 in. (914 mm) wide pathways on separate roof planes, from lowest roof edge to ridge, shall be provided on all buildings. At least one pathway shall be provided on the street or driveway side of the roof. For each roof plane with a photovoltaic array, a minimum 36 in. (914 mm) wide pathway from the lowest roof edge to ridge shall be provided on the same roof plane as the photovoltaic array, on an adjacent roof plane, or straddling the same and adjacent roof planes. Pathways shall be over areas capable of supporting fire fighters accessing the roof. Pathways shall be located in areas with minimal obstructions such as vent pipes, conduit, or mechanical equipment.~~

~~**R324.6.2 Setback at ridge.** For photovoltaic arrays occupying not more than 33 percent of the plan view total roof area, not less than an 18-inch (457 mm) clear setback is required on both sides of a horizontal ridge. For photovoltaic arrays occupying more than 33 percent of the plan view total roof area, not less than a 36-inch (914 mm) clear setback is required on both sides of a horizontal ridge.~~

~~**R324.6.2.1 Alternative setback at ridge.** Where an automatic sprinkler system is installed within the dwelling in accordance with NFPA 13D or Section P2904, setbacks at ridges shall conform with one of the following:~~

- ~~1. For photovoltaic arrays occupying not more than 66 percent of the plan view total roof area, not less than an 18-inch (457 mm) clear setback is required on both sides of a horizontal ridge.~~
- ~~2. For photovoltaic arrays occupying more than 66 percent of the plan view total roof area, not less than a 36-inch (914 mm) clear setback is required on both sides of a horizontal ridge.~~

...

~~R324.6.4 Emergency escape and rescue opening. **Panels and modules installed on dwellings shall not be placed on the portion of a roof that is below an emergency escape and rescue opening. A 36-inch (914mm) wide pathway shall be provided to the emergency escape and rescue opening.**~~

Notation

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.65, 13108, 13108.5, 13114, 13143, 13146, 18949.2

Reference(s): Health and Safety Code Sections 13143, 13195, 18949.2

Item 3. Energy Storage Systems

[Delete amendment and adopt model language]

SECTION R202 DEFINITIONS

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~~**BATTERY SYSTEM, STATIONARY STORAGE.** A rechargeable energy storage system consisting of electrochemical storage batteries, battery chargers, controls, and associated electrical equipment designed to provide electrical power to a building. The system is typically used to provide standby or emergency power, an uninterruptable power supply, load shedding, load sharing or similar capabilities.~~

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~~CHAPTER PART R327 STATIONARY STORAGE BATTERY SYSTEMS~~

~~**R327.1 General.** Stationary storage battery systems, where provided, shall comply with the provisions of this section.~~

~~**R327.2 Equipment listings.** Stationary storage battery systems shall be listed and labeled for residential use in accordance with UL 9540.~~

Exceptions:

- ~~1. Where approved, repurposed unlisted battery systems from electric vehicles are allowed to be installed outdoors or in detached sheds located a minimum five feet (1524 mm) from exterior walls, property lines and public ways.~~

2. ~~Battery systems that are an integral part of an electric vehicle are allowed provided the installation complies with Section 625.48 of NFPA 70.~~
3. ~~Battery systems less than 1 kWh (3.6 Mega joules).~~

~~**R327.3 Installation.** Stationary storage battery systems shall be installed in accordance with the manufacturer's instructions and their listing, if applicable, and shall not be installed within the habitable space of a dwelling unit.~~

~~**R327.4 Electrical installation.** Stationary storage battery systems shall be installed in accordance with NFPA 70. Inverters shall be listed and labeled in accordance with UL 1741 or provided as part of the UL 9540 listing. Systems connected to the utility grid shall use inverters listed for utility interaction.~~

~~**R327.5 Ventilation.** Indoor installations of stationary storage battery systems that include batteries that produce hydrogen or other flammable gases during charging shall be provided with ventilation in accordance with Section M1307.4.~~

~~**R327.6 Protection from impact.** Stationary storage battery systems installed in a location subject to vehicle damage shall be protected by approved barriers.~~

Notation

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.65, 13108, 13108.5, 13114, 13143, 13146, 18949.2

Reference(s): Health and Safety Code Sections 13143, 13195, 18949.2

Item 4. Flammability Standards for Building Insulation Materials

R316.2.1 Polystyrene foam insulation boards manufactured with no flame retardants added shall be labeled on each face in red with the following information:

- WARNING - FIRE HAZARD
- This product is required to be installed HORIZONTALLY according to any of the following:
 - (a) Below at least 12 inches of soil
 - (b) Protected by a 3.5-inch concrete slab
 - (c) Protected by another approved barrier per ASCE 32 Section 4.1.4 or CRC Section R506.1
- NOT FOR VERTICAL OR ANY ABOVE GRADE APPLICATIONS
- This product contains NO flame retardants
- Not tested for flame spread or smoke development requirements of the model building codes
- [ASTM material Type, "except Oxygen Index is less than 24%"]
- [Compressive resistance]
- [Manufacturer]

Additionally, each package of polystyrene foam insulation boards manufactured without testing in accordance with ASTM E84 and ASTM D2863 shall be labeled in red on at least two sides with the following information:

- Warning - combustible material, observe code required storage and structure separation distance (30 feet).

R316.3 Surface Burning Characteristics. Unless otherwise allowed in Section R316.5, foam plastic or foam plastic cores used as a component in manufactured assemblies used in building construction shall have a flame spread index of not more than 75 and shall have a smoke development index of not more than 450 when tested in the maximum thickness and density intended for use in accordance with ASTM E84 or UL 723.

Exceptions:

1: Foam plastic insulation more than 4 inches (102 mm) thick shall have a flame spread index of not more than 75 and a smoke-developed index of not more than 450 where tested at a thickness of not more than 4 inches (102mm) provided that the end use is approved in accordance with section R316.6 using the thickness and density intended for use.

2: *Foam plastic insulation, of a thickness no greater than 2-inch nominal, installed in the horizontal portions of frost protected shallow foundations in accordance with Section R403.3, or as allowed in the CEC Section 110.8 for hydronic heated slabs on grade, shall not be required to meet the FSI and SDI of ASTM E84 or UL 723.*

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R403.3 Frost-protected shallow foundations. For buildings where the monthly mean temperature of the building is maintained at a minimum of 64°F (18°C), footings are not required to extend below the frost line when protected from frost by insulation in accordance with Figure R403.3(1) and Table R403.3(1). Foundations protected from frost in accordance with Figure R403.3(1) and Table R403.3(1) shall not be used for unheated spaces such as porches, utility rooms, garages and carports, and shall not be attached to basements or crawl spaces that are not maintained at a minimum monthly mean temperature of 64°F (18°C).

Materials used below grade for insulating footings against frost shall be labeled as complying with ASTM C578.

Exception: *Foam plastic insulation, of a thickness no greater than 2-inch nominal, installed in the horizontal portions of frost protected shallow foundations in accordance with CRC Section R403.3, or as allowed in the CEC Section 110.8 for hydronic heated slabs on grade, shall not require a limiting oxygen index $\geq 24\%$ as determined by ASTM D2863 and required by ASTM C578.*

Notation

Authority: Health and Safety Code Sections 1250, 1569.72, 1569.78, 1568.02, 1502, 1597.44, 1597.65, 13108, 13108.5, 13114, 13143, 13146, 18949.2

Reference(s): Health and Safety Code Sections 13143, 13195, 18949.2

****PART 2****

Item 5. OSFM amendment updates by chapter

Chapter 1- Division I

[The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.1 Through 1.1.12 and Sections 1.11 through 1.11.10 with modification.]

CHAPTER 1

Part I — Administrative

CHAPTER 1 SCOPE AND APPLICATION DIVISION I CALIFORNIA ADMINISTRATION

1.1.1 Title. *These regulations shall be known as the California Residential Code, may be cited as such and will be referred to herein as "this code." The California Residential Code is Part 2.5 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 ~~2015~~2018 International Residential Code of the International Code Council with necessary California amendments.*

CHAPTER 1-Division II

[The SFM proposes to only adopt Sections R104.2 – R104.4, R104.9 – R104.9.1, R105.1, R105.2.1 - R105.2.2, R105.3 - R105.3.1, R105.4, R105.6, R105.7, R106 – R106.5, R107 – R107.4, R109.1, R109.1.4 - R109.1.6, R109.2 - R109.4, R110 – R110.5, R111 – R111.3, R113 – R113.2 and R114 – R114.3 contained in Chapter 1.]

CHAPTER 1 DIVISION II

Division II is not adopted by the Department of Housing and Community Development or the State Fire Marshal except where specifically indicated.

CHAPTER 2

[The SFM proposes to only adopt Sections R201 – R201.4 and the currently adopted definitions contained in Chapter 2.]

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, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 3

[The SFM proposes to only adopt Sections R302.1 – R302.14, R303.7 – R308.1, R308.3 – R308.4, R309.5, R309.6, R310 – R310.4, R311 – R311.8.3.3, R312 – R312.2.2, R313 – R313.3.8.2, R314 – R314.7.4, R316, R319, R321, R335 – R335.9, R336 – R336.8, R337 – R337.10.2, and R338 – R338.4 contained in Chapter 3.]

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, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 4-7

[The SFM proposes to not adopt Chapter 4 though Chapter 7.]

**CHAPTER 4
FOUNDATIONS**

**CHAPTER 5
FLOORS**

**CHAPTER 6
WALL CONSTRUCTION**

**CHAPTER 7
WALL COVERING**

Notation:

Authority: Health and Safety Code Sections 13108, 13143, 17921, 18949.2

References: Health and Safety Code Sections 13143, 18949.2

CHAPTER 8

[The SFM proposes to only adopt Sections R802.1.5 – R802.1.5.10 contained in Chapter 8.]

ROOF-CEILING CONSTRUCTION

Notation:

Authority: Health and Safety Code Sections 13108, 13108.5, 13132.7, 13143, 13143.2, 13143.6, 13146, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 9

[The SFM proposes to only adopt Sections R901.1, R902.1 – R902.4, R904.1 – R904.4, and R918 contained in Chapter 9 with the following amendments and building standards.]

**CHAPTER 9
ROOF ASSEMBLIES**

Notation:

Authority: Health and Safety Code Sections 13108, 13108.5, 13132.7, 13143, 13143.2, 13143.6, 13146, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 10

[The SFM proposes to only adopt Section R1003.9.1 contained in Chapter 10.]

(See item 13 for existing SFM amendments and California regulations that are brought forward without modification.)

CHIMNEYS AND FIREPLACES

Notation:

Authority: Health and Safety Code Sections 13108, 13108.5, 13132.7, 13143, 13143.2, 13143.6, 13146, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

CHAPTER 11-43

[The SFM proposes to not adopt Chapters 11 through 43.]

Part IV—Energy Conservation

**CHAPTER 11
ENERGY EFFICIENCY**

Part V—Mechanical

**CHAPTER 12
MECHANICAL ADMINISTRATION**

**CHAPTER 13
GENERAL MECHANICAL SYSTEM REQUIREMENTS**

**CHAPTER 14
HEATING AND COOLING EQUIPMENT**

**CHAPTER 15
EXHAUST SYSTEMS**

**CHAPTER 16
DUCT SYSTEMS**

**CHAPTER 17
COMBUSTION AIR**

**CHAPTER 18
CHIMNEYS AND VENTS**

**CHAPTER 19
SPECIAL FUEL-BURNING EQUIPMENT**

**CHAPTER 20
BOILERS AND WATER HEATERS**

**CHAPTER 21
HYDRONIC PIPING**

**CHAPTER 22
SPECIAL PIPING AND STORAGE SYSTEMS**

**CHAPTER 23
SOLAR SYSTEMS**

Part VI—Fuel Gas

CHAPTER 24 FUEL GAS

Part VII—Plumbing

**CHAPTER 25
PLUMBING ADMINISTRATION**

**CHAPTER 26
GENERAL PLUMBING REQUIREMENTS**

**CHAPTER 27
PLUMBING FIXTURES**

**CHAPTER 28
WATER HEATERS**

**CHAPTER 29
WATER SUPPLY AND DISTRIBUTION**

**CHAPTER 30
SANITARY DRAINAGE**

**CHAPTER 31
VENTS**

**CHAPTER 32
TRAPS**

**CHAPTER 33
STORM DRAINAGE**

Part VIII—Electrical

**CHAPTER 34
GENERAL REQUIREMENTS**

**CHAPTER 35
ELECTRICAL DEFINITIONS**

**CHAPTER 36
SERVICES**

**CHAPTER 37
BRANCH CIRCUIT AND FEEDER REQUIREMENTS**

**CHAPTER 38
WIRING METHODS**

**CHAPTER 39
POWER AND LIGHTING DISTRIBUTION**

**CHAPTER 40
DEVICES AND LUMINAIRES**

**CHAPTER 41
APPLIANCE INSTALLATION**

**CHAPTER 42
SWIMMING POOLS**

**CHAPTER 43
CLASS 2 REMOTE-CONTROL, SIGNALING AND POWER-LIMITED CIRCUITS**

Notation:

Authority: Health and Safety Code Sections 13108, 13143, 17921, 18949.2

References: Health and Safety Code Sections 13143, 18949.2

CHAPTER 44

[10. The SFM proposes to adopt Chapter 44.]

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, 13113.5, 13113.7, 13113.8, 13114, 13143, 13143.2, 13143.6, 13146, 17921, 18949.2, Government Code Section 51189

References: Health and Safety Code Sections 13143, 18949.2, Government Code Sections 51176, 51177, 51178, 51179, Public Resources Code Sections 4201 through 4204

APPENDICES

[11. The SFM proposes to not adopt Appendices A through L.]

**APPENDIX A
SIZING AND CAPACITIES OF GAS PIPING**

**APPENDIX B
SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS,
CATEGORY I APPLIANCES, AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS**

**APPENDIX C
EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT VENT VENTING SYSTEMS**

**APPENDIX D
RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE
INSTALLATION**

**APPENDIX E
MANUFACTURED HOUSING USED AS DWELLINGS**

**APPENDIX F
PASSIVE RADON GAS CONTROL**

**APPENDIX G
SWIMMING POOLS, SPAS AND HOT TUBS**

**APPENDIX H
PATIO COVERS**

**APPENDIX I
PRIVATE SEWAGE DISPOSAL**

**APPENDIX J
EXISTING BUILDINGS AND STRUCTURES**

**APPENDIX K
SOUND TRANSMISSION**

**APPENDIX L
PERMIT FEES**

Notation:

Authority: Health and Safety Code Sections 13108, 13143, 17921, 18949.2

References: Health and Safety Code Sections 13143, 18949.2

[12. The SFM proposes to not adopt Appendices M and remove the following text.]

APPENDIX M

This Appendix is not applicable in California See Health and Safety Code Sections 1597.45, 1597.46, 1597.54 and 13143 regarding small family day care homes and large family day care homes. Provisions for day care facilities shall be in accordance with Section 1.1.3.1 for classification, R326 for large family day care, R325 for Group R-3.1 or the California Building Code.

Notation:

Authority: Health and Safety Code Sections 13108, 13143, 17921, 18949.2

References: Health and Safety Code Sections 13143, 18949.2