

**CALIFORNIA
ADOPTED THE FOLLOWING:**

FINAL EXPRESS TERMS
FOR STATE AGENCY APPROVED CHANGES TO THE
2015 UNIFORM MECHANICAL AND PLUMBING CODES (UMC) & (UPC)
FOR
THE 2016 CALIFORNIA MECHANICAL AND PLUMBING CODES (CMC) & (CPC)
CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PARTS 4 & 5 RESPECTIVELY

- THE CALIFORNIA BUILDING STANDARDS COMMISSION (BSC)
- THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY (DSA/SS)
- THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPEMENT (HCD)
- THE OFFICE OF STATE WIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD)
- THE OFFICE OF THE STATE FIRE MARSHAL (SFM)

Disclaimer: All Final Express Terms for the above mentioned agencies are available and were obtained from the Building Standards Commission at the following link:

<http://www.bsc.ca.gov/Rulemaking/adoptcycle/2015CodeAdoptionCycle/ApprovedStandardsDecember2015.aspx><http://www.bsc.ca.gov/Rulemaking/adoptcycle/2015CodeAdoptionCycle/ApprovedStandardsJanuary2016.aspx>

TABLE OF CONTENTS

DIVISION	AGENCY PROPOSAL #
I) 2015 UNIFORM MECHANICAL CODE STATE AGENCY AMENDMENTS	
1. THE CALIFORNIA BUILDING STANDARDS COMMISSION	(BSC 02/15)
2. THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY	(DSA/SS 06/15)
3. THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT	(HCD 05/15)
4. THE OFFICE OF STATE WIDE HEALTH PLANNING AND DEVELOPMENT	(OSHDPD 06/15)
5. THE OFFICE OF THE STATE FIRE MARSHAL	(SFM 03/15)
II) 2015 UNIFORM PLUMBING CODE STATE AGENCY AMENDMENTS	
1. THE CALIFORNIA BUILDING STANDARDS COMMISSION	(BSC 03/15)
2. THE CALIFORNIA BUILDING STANDARDS COMMISSION	(BSC 03/15 ADDEN)
3. THE DIVISION OF THE STATE ARCHITECT – ACCESS COMPLIANCE	(DSA/AC 03/15)
4. THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY	(DSA/SS 05/15)
5. THE DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT	(HCD 06/15)
6. THE OFFICE OF STATE WIDE HEALTH PLANNING AND DEVELOPMENT	(OSHDPD 05/15)
7. THE OFFICE OF THE STATE FIRE MARSHAL	(SFM 04/15)

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**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION (CBSC)**

**REGARDING PROPOSED ADOPTION OF THE
2015 UNIFORM MECHANICAL CODE (UMC) FOR THE
CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 4**

(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~~.

FINAL EXPRESS TERMS

The Building Standards Commission (CBSC) proposes to adopt the 2015 edition of the Uniform Mechanical Code (UMC) for codification and effectiveness into the 2016 edition of the California Mechanical Code (CMC) as presented on the following pages, including any necessary amendments. BSC further proposes to:

- Repeal the 2012 edition of the UMC and the 2013 CMC;
- Repeal amendments to the model code that are no longer necessary, repeal or amend building standards that are not addressed by a model code;
- Relocate or codify existing adopted and necessary amendments to the model code into the format of the model code proposed for adoption, the action of which has no regulatory effect; adopt new necessary amendments to the model code proposed for adoption; and/or
- Adopt new building standards that are not addressed by the model code proposed for adoption

PROPOSED REPEALS, ADOPTIONS AND NEW AMENDMENTS

ITEM 1. CBSC proposes to bring forward existing California amendments in the *preface* from the 2013 California Mechanical Code for adoption into the 2016 edition of the California Mechanical Code with additional amendments as follows:

PREFACE

This document is the 4th of ~~twelve~~ thirteen parts of the official triennial compilation and publication of the adoptions, amendments and repeal of administrative regulations to *California Code of Regulations, Title 24*, also referred to as the *California Building Standards Code*. Part 4 is known as the *California Mechanical Code* and incorporates, by adoption, the 2012 ~~2015~~ edition of the *Uniform Mechanical Code* of the International Association of Plumbing and Mechanical Officials with the California amendments.

The *California Building Standards Code* is published in its entirety every ...

ACKNOWLEDGEMENTS

The 2013~~6~~ California Building Standards Code (Code) was developed through the outstanding collaborative efforts of the Department of Housing and Community Development, the Division of the State Architect, the Office of the State Fire Marshal, the Office of Statewide Health Planning and Development, the California Energy Commission, the California Department of Public Health, the California State Lands Commission, the Board of State and Community Corrections, and the California Building Standards Commission (Commission).

This collaborative effort included the assistance of the Commission's Code Advisory Committees and many other volunteers who worked tirelessly to assist the Commission in the production of this Code.

Governor Edmund G. Brown Jr.

Members of the Building Standards Commission

*Secretary ~~Anna Caballero~~ Marybel Batjer – Chair
~~James Barthman~~ Steven Winkel – Vice-Chair*

<i>Stephen Jenson <u>Elley Klausbruckner</u></i>	<i>Rose Conroy <u>Cheryl Roberts</u></i>
<i>Randy Twist <u>Larry Booth</u></i>	<i>Sheila Lee <u>David Malcolm Carson</u></i>
<i>Richard Sawhill</i>	<i>Richard Sierra</i>
<i>Kent Sasaki</i>	<i>James Barthman</i>
<i><u>Raj Patel</u></i>	<i><u>Erick Mikiten</u></i>
<i><u>Pedro Santillan</u></i>	

*Jim McGowan – Executive Director
Michael L. Nearman – Deputy Executive Director*

Legends of Abbreviations of Adopting State Agencies

BSC	California Building Standards Commission (see Section 1.2.0)
<u>BSC-CG</u>	<u>California Building Standards Commission – CALGreen</u> (see Section 1.3.0)
SFM ...	

Notation:

Authority: Health and Safety Code §18934.5, 18949.6

References: Health and Safety Code §18934.5, 18949.6

ITEM 2. CBSC proposes to bring forward existing California amendments in *Chapter 1, Division I* through *Chapter 1, Division II* from the 2013 California Mechanical Code for adoption into the 2016 edition of the California Mechanical Code with additional amendments as follows:

CHAPTER 1
CALIFORNIA ADMINISTRATION
DIVISION I

1.1.0 General

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 ~~twelve~~ thirteen parts of the official compilation and publication of the adoptions, 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 ~~2012~~ 2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.

1.1.2 Purpose. The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.

1.1.3 Scope. The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout the State of California.

1.1.3.1 Nonstate-regulated buildings, structures, and applications. Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9,10 and 11 shall apply to all occupancies and applications not regulated by a state agency.

1.1.3.2 State-Regulated Buildings, Structures, and Applications. The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions, shall apply to the following buildings, structures, and applications regulated by state agencies as specified in Sections 1.2.0 through 1.14.0, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.

Note: See Preface to distinguish the model code provisions from the California provisions.

1. State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section 1.2.0 for additional scope provisions.

2. ~~Section 1.3.0 is reserved for the Local detention facilities regulated by the Corrections Standards Authority Board of State and Community Corrections. See Section 1.3 for additional scope provisions.~~
3. ~~Section 1.4.0 is reserved for the Department of Consumer Affairs. Barbering, cosmetology or electrolysis establishments, acupuncture offices, pharmacies, veterinary facilities, and structural pest control locations regulated by the Department of Consumer Affairs. See Section 1.4 for additional scope provisions.~~
4. ~~Section 1.5.0 is reserved~~ Reserved for the California Energy Commission. See Section 1.5 for additional scope provisions.
5. ~~Section 1.6.0 is reserved for the Dairies and places of meat inspection regulated by the Department of Food and Agriculture. See Section 1.6 for additional scope provisions.~~
6. Organized camps, laboratory animal quarters, public swimming pools, radiation protection, commissaries serving mobile food preparation vehicles, and wild animal quarantine facilities regulated by the Department of Public Health. See Section 1.7 for additional scope provisions.
7. Hotels, motels, lodging houses, ~~apartment houses~~ apartments, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing, and other types of dwellings containing sleeping accommodations with or without common toilets or cooking facilities. See Section 1.8.2.1.1 for additional scope provisions.
8. Accommodations for persons with disabilities in buildings containing newly constructed covered multifamily dwellings, new common use spaces serving existing covered multifamily dwellings, additions to existing buildings where the addition alone meets the definition of "COVERED MULTIFAMILY DWELLINGS," and new common-use spaces areas serving new covered multifamily dwellings which are regulated by the Department of Housing and Community Development. See Section 1.8.2.1.2 for additional scope provisions.
9. Permanent buildings and permanent accessory buildings or structures constructed within mobilehome parks and special occupancy parks regulated by the Department of Housing and Community Development. See Section 1.8.2.1.3 for additional scope provisions.
10. Accommodations for persons with disabilities regulated by the Division of the State Architect. See Section 1.9.1 for additional scope provisions.
11. Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.
12. Reserved for the State Historical Building Safety Board with the Division of the State Architect. See Section 1.9.3 for additional scope provisions.
13. General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the Department of Public Health and

correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section 1.10 for additional scope provisions.

14. *Applications regulated by the Office of State Fire Marshal include but are not limited to the following in accordance with Section 1.11:*
 1. *Buildings or structures used or intended for use as an:*
 - 1.1. *Asylum, jail, prison.*
 - 1.2. *Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.*
 - 1.3. *Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building, or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*
 - 1.4. *Small family day care homes, large family day-care homes, residential facilities and residential facilities for the elderly, residential care facilities.*
 - 1.5. *State institutions or other state-owned or state-occupied buildings.*
 - 1.6. *High rise structures.*
 - 1.7. *Motion picture production studios.*
 - 1.8. *Organized camps.*
 - 1.9. *Residential structures.*
 2. *Tents, awnings or other fabric enclosures used in connection with any occupancy.*
 3. *Fire alarm devices, equipment and systems in connection with any occupancy.*
 4. *Hazardous materials, flammable and combustible liquids.*
 5. *Public school automatic fire detection, alarm, and sprinkler systems.*
 6. *Wildland-urban interface fire areas.*
15. *Section 1.12.0 is reserved for Public libraries constructed and renovated using funds from the California Library Construction and Renovation Bond Act of 1988 and regulated by the State Librarian. See Section 1.12 for additional scope provisions.*
16. *Section 1.13.0 is reserved for the Graywater systems regulated by the Department of Water Resources. See Section 1.13 for additional scope provisions.*
17. *For applications listed in Section 1.9.1 regulated by the Division of the State Architect – Access Compliance, outdoor environments and uses shall be classified according to accessibility uses described in Chapter 11A, 11B and 11C.*
18. *Section 1.14.0 is reserved for Marine Oil Terminals regulated by the California State Lands Commission. See Section 1.14 for additional scope provisions.*

1.1.4 Appendices. Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.

1.1.5 Referenced codes. The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

1.1.6 Nonbuilding standards, orders and regulations. Requirements contained in the Uniform Mechanical Code or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.

1.1.7 Order of precedence and use.

1.1.7.1 Differences. In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.

1.1.7.2 Specific provisions. Where a specific provision varies from a general provision, the specific provision shall apply.

1.1.7.3 Conflicts. When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.

Exception: Detached one-and two-family dwellings, efficiency dwelling units, lodging houses, live/work units, townhouses not more than three stories above grade plane with a separate means of egress, and their accessory structures, shall not be required to comply with the California Residential Code if constructed in accordance with the California Building Code.

1.1.8 City, county, or city and county amendments, additions or deletions.

The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 1.1.8.1. The effective date of amendments, additions, or deletions to this code by a city, county, or city and county filed pursuant to Section 1.1.8.1 shall be the date filed. However, in no case shall the amendments, additions or deletions to this code be effective any sooner than the effective date of this code.

Local modifications shall comply with Health and Safety Code Section 18941.5 for Building Standards Law, Health and Safety Code Section 17958 for State Housing Law or Health and Safety Code Section 13869.7 for Fire Protection Districts.

1.1.8.1 Findings and filings.

1. The city, county, or city and county shall make express findings for each amendment, addition or deletion based upon climatic, topographical, or geological conditions.

Exception: Hazardous building ordinances and programs mitigating unreinforced masonry buildings.

2. The city, county, or city and county shall file the amendments, additions, or deletions expressly marked and identified as to the applicable findings. Cities, counties, cities and counties, and fire departments shall file the amendments, additions or deletions, and the findings with the California Building Standards Commission at 2525 Natomas Park Drive, Suite 130, Sacramento, CA 95833.
3. Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or ~~1800 3rd Street, Room 260, Sacramento, CA 95811~~ 2020 W. El Camino Avenue, Suite 250, Sacramento, CA 95833-1829.

1.1.8.2 Locally adopted energy standards – California Energy Code, Part 6.

In addition to the provisions of Section 89.101.8.1 of this Part, the provisions of this section applies to cities, counties, and city and county amending adopted energy standards affecting buildings and structures subject to the California Energy Code, Part 6.

Applicable provisions of Public Resources Code Section 25402.1 and applicable provisions of Chapter 10 of the California Administrative Code, Part 1 apply to local amendment of energy standards adopted by the California Energy Commission.

1.1.9 Effective date of this code. Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

1.1.10 Availability of codes. At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county or city and county shall have an up-to-date copy of the code available for public inspection, See Health and Safety Code Section 18942 ~~(d)~~(e)(1) and (2).

1.1.11 Format. This part fundamentally adopts the International Building Code by reference on a chapter-by-chapter basis. When a specific chapter of the International Building Code is not printed in the code and is marked "Reserved", such chapter of the International Building Code is not adopted as a portion of this code. When a specific chapter of the International Building Code is marked "Not adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.

Note: Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but they are not to be considered regulatory.

1.1.12 Validity. If any chapter, section, subsection, sentence, clause or phrase of this code is for any

reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.

SECTION 1.2 BUILDING STANDARDS COMMISSION

1.2.0 Building Standards Commission.

1.2.1 BSC Specific scope of application of the agency responsible for enforcement, the enforcement agency, and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.

1. State Buildings for all Occupancies.

Application – State buildings (all occupancies), including buildings constructed by the Trustees of the California State University (CSU) and the Regents of the University of California (UC) where no state agency has the authority to adopt building standards applicable to such buildings.

Enforcing Agency – State or local agency specified by the applicable provisions of law.

Authority Cited – Health and Safety Code section 18934.5.

Reference – Health and Safety Code, Division 13, Part 2.5, commencing with section 18901.

2. University of California, California State Universities, and California Community Colleges.

Application – Standards for lighting for parking lots and primary campus walkways at the University of California, California State Universities, and California Community Colleges.

Enforcing Agency – State or local agency specified by the applicable provisions of law.

Authority Cited – Government Code section 14617.

Reference – Government Code section 14617.

3. Existing State-Owned Buildings, including those owned by the University of California and by the California State University–

Building seismic retrofit standards including abating falling hazards of structural and nonstructural components and strengthening of building structures. See also Division of the State Architect.

Enforcing Agency – State or local agency specified by the applicable provisions of law.

Authority Cited – Government Code section 16600

Reference – Government Code sections 16600 through 16604

4. Unreinforced Masonry Bearing Wall Buildings.

Application – Minimum seismic strengthening standards for buildings specified in Appendix Chapter 4 of the California Code for Existing Building Conservation Code, except for buildings subject to building standards adopted pursuant to Part 1.5 (commencing with Section 17910)

Enforcing Agency – State or local agency specified by the applicable provisions of law.

Authority Cited – Health and Safety Code section 18934.67

Reference – ~~Health and Safety Code sections 18901 through 18949~~ Health and Safety Code Division 13, Part 2.5 commencing with Sections 18901.

1.2.2 Alternate Materials, Design, and Methods of Construction and Equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design, or method of construction shall be approved where the building

finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method of work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quantity, strength, effectiveness, fire resistance, durability and safety.

1.2.2.1 State building. *For purposes of this code, a "state building" is a structure for which a state agency or state entity has authority to construct, alter, enlarge, replace, repair or demolish.*

1.2.2.2 Enforcement. *[CSU, UC, Judicial Council and California Department of Corrections Rehabilitation] state agencies or state entities authorized to construct state buildings may appoint a building official who is responsible to the agency for enforcement of the provisions of the California Building Standards Code.*

Exception: *State buildings regulated by other sections of this code remain the enforcement responsibility of the designated entities.*

1.2.2.3 Enforcement, Reserved for DGS.

1.2.3 1.2.2.4 Adopting agency identification. *The provisions of this code applicable to buildings identified in this section will be identified in the Matrix Adoption Tables under the acronym BSC.*

1.2.3 BSC-CG. *Specific scope of application of the agency responsible for enforcement, the enforcement agency, and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

Application – *All occupancies where no other state agency has the authority to adopt green building standards applicable to those occupancies.*

Enforcing agency – *State or local agency specified by the applicable provisions of law.*

Authority cited – *Health and Safety Code Sections 18930.5, 18938 and 18940.5.*

Reference – *Health and Safety Code, Division 13, Part 2.5, commencing with Section 18901.*

1.2.23.1 Research Reports. *Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.*

1.2.23.2 Tests. *Whenever there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform to the requirements of this code, or in order to substantiate claims for alternative materials or methods, the building official shall have the authority to require tests as evidence of compliance to be made at no expense to the jurisdiction. Test methods shall be as specified in this code or by other recognized test standards.*

In the absence of recognized and accepted test methods, the building official shall approve the testing procedures. Tests shall be performed by an approved agency. Reports of such tests shall be retained by the building official for the period required for retention of public records.

...

1.12.0 Reserved for the State Librarian.

1.13.0 Reserved for the Department of Water Resources.

1.14.0 Reserved for the State Lands Commission

CBSC proposes not to adopt CHAPTER 1 of the 2015 UMC for use in the 2016 CMC as Division II.

ADMINISTRATION

Chapter 1 (2015 UMC) - DIVISION II (2016 CMC)

...

Notation:

Authority: Health and Safety Code §18934.5, 18949.6

References: Health and Safety Code §18934.5, 18949.6

ITEM 3. CBSC proposes to adopt Chapter 2 of the 2015 UMC, with existing amendment to be moved forward without change.

**CHAPTERS 2
DEFINITIONS**

...

209.0

-G-

Galvanized Steel. A steel that has been coated with a thin layer of zinc for corrosion protection; conforming to the requirements of ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 4. CBSC proposes to adopt Chapter 3 of the 2015 UMC, without amendments.

**CHAPTER 3
GENERAL REGULATIONS**

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 5. CBSC proposes to adopt Chapter 4 of the 2015 UMC, with existing amendments, new amendments show below.

**CHAPTER 4
VENTILATION AIR**

...
402.0 Ventilation Air.

402.1 Occupiable Spaces Occupiable spaces listed in Table 402.1 shall be designed to have ventilation (outdoor) air for occupants in accordance with this chapter. *Ventilation air supply requirements for occupancies regulated by the California Energy Commission are found in the California Energy code.*

...
**TABLE 402.1
MINIMUM RATES IN BREATHING ZONE^{1, 2, 4}
[ASHRAE 62.1: TABLE 6.2.2.1]**

Note: Ventilation air supply requirements for occupancies regulated by the California Energy Commission are found in the California energy code. (This note to be located under the title at the top of Table 402.1)

[Table not shown for clarity]

...
403.9 ~~403.10~~ Exhaust Ventilation for Enclosed Parking Garages. Exhaust airflow for enclosed parking garages shall be provided in accordance with the requirements in Table 403.7 and this section. Exhaust makeup air shall be permitted to be any combination of outdoor air to transfer air. Exhaust systems shall operate continuously.

Exceptions:

- (1) Mechanical ventilation systems used for enclosed parking garages shall be permitted to operate intermittently where the system is arranged to operate automatically upon detection of vehicle operation or the presence of occupants by approved automatic detection devices.
- (2) Automatic carbon monoxide sensing devices may be employed to modulate the ventilation systems to not exceed a maximum average concentration of carbon monoxide of 50 parts per million during any eight-hour period, with a maximum concentration not greater than 200 parts per million for a period not exceeding one hour. Automatic carbon monoxide sensing devices employed to modulate parking garages ventilation systems shall be approved pursuant to the requirements in Section 302.1.

403.9.1 ~~403.10.1~~ Alternate Exhaust Ventilation for Enclosed Parking Garages.

403.9.1.1 ~~403.10.1.1~~ Maximum Exhaust Rate. In lieu of the exhaust rates in table 403.7, ventilation systems shall be capable of providing 14,000 cfm (6608 L/s) of exhaust air for each operating vehicle. Number of operating vehicles shall be determined based on 2.5 percent of all parking spaces (and not less than on vehicle).

403.9.1.2 ~~403.10.1.2~~ Exhaust Inlet Distribution. To ensure proper exhaust of

contaminated air and fumes from parking garages, exhaust systems utilizing multiple exhaust inlets shall be designed so that exhaust inlets are distributed in such a manner that no portion of the parking garage is more than 50 feet (15,240 mm) from an exhaust inlet. Such exhaust inlets shall be installed so that the highest elevation of the exhaust inlet is no greater than 12 inches (305 mm) below the lowest ceiling level.

Exception: Garage exhaust systems designed without distribution exhaust inlets may have their exhaust inlets designed based on the principles of engineering and mechanics and shall provide the minimum required exhaust rate in Table 403.7.

409.9.1.3 403.10.1.3 Exhaust Systems Operation. Exhaust systems shall operate continuously unless one of the exceptions to continuous operation of Section 403.9 is utilized.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 6. CBSC proposes to adopt Chapter 5 of the 2015 UMC, without amendments.

**CHAPTER 5
EXHAUST SYSTEMS**

...

503.0 Motors, Fans, and Filters

503.1 General...

503.2 Fans...

503.3 Filters. [BSC-CG] In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual in compliance with Chapter 5, Division 5.5. of the California Green Building Standards Code (CALGreen).

Exceptions:

1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow.
2. Existing mechanical equipment.

503.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 7. CBSC proposes to adopt Chapter 6 of the 2015 UMC, with existing amendments.

**CHAPTER 6
DUCT SYSTEMS**

...

602.1 General. Supply air, return air, and outside air for heating, cooling, or evaporative cooling duct systems constructed of metal shall comply with SMACNA HVAC Duct Construction Standards—Metal and Flexible or UL 181.

Concealed building spaces or independent construction within buildings shall be permitted to be used as ducts or plenums.

In other than Group A, E, H, I, L and R occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, corridors shall not be used to convey air to or from rooms where the corridor is required to be of fire-resistive construction in accordance with the California Building Code. In Group A, E, H, I, L and R occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, corridors shall not be used to convey air to

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 8. CBSC proposes to adopt Chapters 7 through 10 of the 2015 UMC, without amendments.

**CHAPTER 7 - COMBUSTION AIR
CHAPTER 8 – CHIMNEYS AND VENTS
CHAPTER 9 – INSTALLATION OF SPECIFIC APPLIANCES
AND
CHAPTER 10 – BOILERS AND PRESSURE VESSELS**

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 9. CBSC proposes to adopt Chapter 11 of the 2015 UMC, without amendment.

**CHAPTER 11
REFRIGERATION**

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 10. CBSC proposes to adopt Chapters 12 through 14 of the 2015 UMC, without amendments.

**CHAPTER 12 – HYDRONICS
CHAPTER 13 – FUEL GAS PIPING
AND
CHAPTER 14 – PROCESS PIPING**

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 11. CBSC proposes not to adopt Chapter 15 of the 2015 UMC.

**CHAPTER 15
SOLAR SYSTEMS**

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 12. CBSC proposes to adopt Chapters 16 and 17 of the 2015 UMC, without amendments.

**CHAPTER 16 – STATIONARY POWER PLANTS
AND
CHAPTER 17 – REFERENCED STANDARDS**

Table 1701.1 Standards for Equipment and Materials.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 13. CBSC proposes to not adopt Appendix Chapter A of the 2015 UMC.

APPENDICES

APPENDIX A - Residential Plan Examiner Review Form for HVAC System Design

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 14. CBSC proposes to adopt Appendices B and C of the 2015 UMC with no new amendments.

APPENDIX B – Procedures to be Followed to Place Gas Equipment in Operation.

AND

APPENDIX C – Installation and Testing of Oil (Liquid) Fuel-Fired Equipment.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

ITEM 15. CBSC proposes not to adopt Appendices E, F and G of the 2015 UMC with no new amendments.

APPENDIX E – Sustainable Practices

APPENDIX F – Sizing of Venting Systems and Outdoor Combustion and Ventilation Opening Design

AND

APPENDIX G – Example Calculation of Outdoor Air Rate.

...

Notation:

Authority: Health & Safety Code Sections 18928 and 18934.5

Reference(s): Health & Safety Code Sections 18928, 18928.1 and 18934.5

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY (DSA-SS AND DSA-SS/CC)

REGARDING PROPOSED CHANGES TO
CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

The California Building Standards Code (California Code of Regulations, Title 24, Part 1, 2, 2.5, 3, 4, 5, 6, 8, 9, 10, 11, and 12) is published in its entirety every three years and is applicable to all buildings for which an application for a building permit is made during the Code's effective period. Each triennial edition of the California Building Standards Code becomes effective 180 days after its publication.

These proposed regulations will make effective the 2015 edition of the Uniform Mechanical Code (UMC) as the 2016 edition California Mechanical Code (CMC), for application by DSA-SS (Division of the State Architect – Structural Safety) to public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

These proposed regulations will also make effective the 2015 edition of the UMC as the 2016 edition CMC, for application by DSA-SS/CC (Division of the State Architect – Structural Safety/Community Colleges) to community colleges, which a community college district may elect to use in lieu of standards promulgated by DSA-SS (refer to Education Code Section 81053).

Further, these proposed regulations will repeal the 2012 edition UMC articles adopted as the 2013 edition CMC.

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~~.
4. Instructions: Texts which are instructions only that are not amendments and will not be printed appears in **blue highlight**.

EXPRESS TERMS

**CALIFORNIA MECHANICAL CODE
CHAPTER 1 – ADMINISTRATION**

Continue Chapter 1, Division I (California Administration) of the 2013 triennial edition of the CMC for publication in the 2016 triennial edition of the CMC, with DSA editorial amendments as shown below:

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt only those sections that are listed below	X	X	
Division I – California Administration			
1.1.0 General	X	X	
1.1.1 Title	X	X	
1.1.2 Purpose	X	X	

1.1.3 Scope	X	X	
1.1.3.1 Nonstate-Regulated Buildings, Structures, and Application	X	X	
1.1.3.2 State-Regulated Buildings, Structures, and Applications	X	X	DSA-SS adopts Item (11) of Article 1.1.3.2
1.1.4 Appendices	X	X	
1.1.5 Referenced Codes	X	X	
1.1.6 Non-Building Standards, Orders and Regulations	X	X	
1.1.7 Order of Precedence and Use	X	X	
1.1.7.1 Differences	X	X	
1.1.7.2 Specific Provisions	X	X	
1.1.7.3 Conflicts	X	X	
1.1.8 City, County, or City and County Amendments, Additions or Deletions	X	X	
1.1.9 Effective Date of This Code	X	X	
1.1.10 Availability of Codes	X	X	
1.1.11 Format	X	X	
1.1.12 Validity	X	X	
1.9.0 Division of the State Architect			
1.9.1 (Reserved for the DSA-AC)			
1.9.2 Division of the State Architect – Structural Safety	X	X	
1.9.2.1 Adopting Agency Identification	X		
1.9.2.2 DSA-SS	X		
1.9.2.3 Adopting Agency Identification		X	
1.9.2.4 DSA-SS/CC		X	

**CHAPTER 1
ADMINISTRATION
DIVISION I
CALIFORNIA ADMINISTRATION**

1.1.0 General.

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 twelve parts of the official compilation and publication of the adoptions, 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 2012 2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

1.1.2 Purpose. *The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.*

1.1.3 Scope. *The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout*

the State of California.

1.1.3.1 Nonstate-Regulated Buildings, Structures, and Applications. Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.

1.1.3.2 State-Regulated Buildings, Structures, and Applications. The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies as referenced in the Matrix Adoption Tables and as specified in Section 1.2.0 through 1.14.0, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.

Note: See Preface to distinguish the model code provisions from the California provisions.

- 1) ...
- 2) ...
- 3) ...
- 4) ...
- 5) ...
- 6) ...
- 7) ...
- 8) ...
- 9) ...
- 10) ...
- 11) Public elementary and secondary schools, community college buildings and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.
- 12) ...
- 13) ...
- 14) ...
- 15) ...
- 16) ...
- 17) ...
- 18) ...

1.1.4 Appendices. Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.

1.1.5 Referenced Codes. The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

1.1.6 NonBuilding Standards, Orders and Regulations. Requirements contained in the Uniform

Mechanical Code or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.

1.1.7 Order of Precedence and Use.

1.1.7.1 Differences. *In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.*

1.1.7.2 Specific Provisions. *Where a specific provision varies from a general provision, the specific provision shall apply.*

1.1.7.3 Conflicts. *When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.*

1.1.8 City, County, or City and County Amendments, Additions or Deletions.

...

1.1.9 Effective Date of this Code. *Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.*

1.1.10 Availability of Codes. *At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county or city and county shall have an up-to-date copy of the code available for public inspection, See Health and Safety Code Section 18942(d)(1) and (2).*

1.1.11 Format. *This part fundamentally adopts the Uniform Mechanical Code by reference on a chapter-by-chapter basis. When a specific chapter of the Uniform Mechanical Code is not printed in the code and is marked "Reserved", such chapter of the Uniform Mechanical Code is not adopted as a portion of this code. When a specific chapter of the Uniform Mechanical Code is marked "Not adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.*

Note: *Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but they are not to be considered regulatory.*

1.1.12 Validity. *If any chapter, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.*

...

1.9.0 Division of the State Architect.

1.9.1 Reserved for the Division of the State Architect – Access Compliance.

1.9.2 Division of the State Architect - Structural Safety.

1.9.2.1 Adopting Agency Identification. *The provisions of this code applicable to buildings identified in*

this Subsection 1.9.2.2 will be identified in the Matrix Adoption Tables under the acronym DSA SS.

1.9.2.2 DSA-SS Division of the State Architect – Structural Safety.

Application - Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential services buildings.

Enforcing Agency - Division of the State Architect – Structural Safety (DSA-SS).

The Division of the State Architect has been delegated the responsibility and authority by the Department of General Services to review and approve the design and oversee the construction of public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

Authority Cited - Education Code Section 17310 and 81142, and Health & Safety Code Section 16022.

References - Education Code Sections 17280 through 17317 and 81130 through 81147, and Health & Safety Code Sections 16000 through 16023.

1.9.2.3 Adopting Agency Identification. *The provision of this code applicable to buildings identified in this Subsection 1.9.2.4 will be identified in the Matrix Adoption Tables under the acronym DSA SS/CC*

1.9.2.4. DSA-SS/CC Division of the State Architect – Structural Safety/Community Colleges.

Application - Community Colleges.

The Division of the State Architect has been delegated the authority by the Department of General Services to promulgate alternate building standards for application to community colleges, which a community college may elect to use in lieu of standards promulgated by DSA-SS in accordance with Section 1.9.2.2. Refer to Title 24, Part 2, Section 1.9.2.4.

Enforcing Agency - Division of the State Architect – Structural Safety/Community Colleges (DSA-SS/CC)

The Division of the State Architect has been delegated the authority by the Department of General Services to review and approve the design and oversee construction of community colleges electing to use the alternative building standards as provided in this section.

Authority Cited - Education Code Section 81053.

References - Education Code Sections 81052, 81053, and 81130 through 81147.

...

**DIVISION II
ADMINISTRATION**

...

**CALIFORNIA MECHANICAL CODE
CHAPTER 2 - DEFINITIONS**

Repeal Chapter 2 (Definitions) of the 2012 edition UMC.

Adopt Chapter 2 (Definitions) of the 2015 edition UMC with existing DSA amendments continued for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
209.0 Galvanized Steel	X	X	

...

209.0

Galvanized Steel. A steel that has been coated with a thin layer of zinc for corrosion protection; *conforming to the requirements of ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process.*

...

**CALIFORNIA MECHANICAL CODE
CHAPTER 3 - GENERAL REQUIREMENTS**

Repeal Chapter 3 (General Requirements) of the 2012 edition UMC.
Adopt Chapter 3 (General Requirements) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 4 - VENTILATION AIR SUPPLY**

Repeal Chapter 4 (Ventilation Air Supply) of the 2012 edition UMC.
Adopt Chapter 4 (Ventilation Air Supply) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 5 - EXHAUST SYSTEMS**

Repeal Chapter 5 (Exhaust Systems) of the 2012 edition UMC.
Adopt Chapter 5 (Exhaust Systems) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 6 - DUCT SYSTEMS**

Repeal Chapter 6 (Duct Systems) of the 2012 edition UMC.
Adopt Chapter 6 (Duct Systems) of the 2015 edition UMC with existing DSA amendments continued for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
601.3 (The performance criteria ...)	X	X	

**CHAPTER 6
DUCT SYSTEMS**

601.0 General.

...

601.3 *The performance criteria and requirements herein contemplate a duct that is a structural assembly having the capacity to support occupant health and safety while minimizing its own contribution to property damage under emergency conditions. Ducts can supply fresh or treated air in support of life and health, can convey products of combustion away from a fire zone, can maintain a pressure differential that facilitates evacuation and reduces the spread of fire and smoke, and can facilitate firefighter access to a fire source.*

...

**CALIFORNIA MECHANICAL CODE
CHAPTER 7 - COMBUSTION AIR**

Repeal Chapter 7 (Combustion Air) of the 2012 edition UMC.

Adopt Chapter 7 (Combustion Air) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 8 - CHIMNEYS AND VENTS**

Repeal Chapter 8 (Chimneys and Vents) of the 2012 edition UMC.

Adopt Chapter 8 (Chimneys and Vents) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 9 - INSTALLATION OF SPECIFIC APPLIANCES**

Repeal Chapter 9 (Installation of Specific Appliances) of the 2012 edition UMC.

Adopt Chapter 9 (Installation of Specific Appliances) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 10 - STEAM AND HOT WATER BOILERS**

Repeal Chapter 10 (Steam and Hot Water Boilers) of the 2012 edition UMC.

Adopt Chapter 10 (Steam and Hot Water Boilers) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 11 - REFRIGERATION**

Repeal Chapter 11 (Refrigeration) of the 2012 edition UMC.
Adopt Chapter 11 (Refrigeration) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 12 - HYDRONICS**

Repeal Chapter 12 (Hydronics) of the 2012 edition UMC.
Adopt Chapter 12 (Hydronics) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 13 - FUEL GAS PIPING**

Repeal Chapter 13 (Fuel Gas Piping) of the 2012 edition UMC.
Adopt Chapter 13 (Fuel Gas Piping) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 14 - PROCESS PIPING**

Repeal Chapter 14 (Process Piping) of the 2012 edition UMC.
Adopt Chapter 14 (Process Piping) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 15 - SOLAR SYSTEMS**

Repeal Chapter 15 (Solar Systems) of the 2012 edition UMC.
Adopt Chapter 15 (Solar Systems) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 16 - STATIONARY POWER PLANTS**

Repeal Chapter 16 (Stationary Power Plants) of the 2012 edition UMC.
Adopt Chapter 16 (Stationary Power Plants) of the 2015 edition UMC without DSA amendment for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

**CALIFORNIA MECHANICAL CODE
CHAPTER 17 – REFERENCED STANDARDS**

Repeal Chapter 17 (Referenced Standards) of the 2012 edition UMC.

Adopt Chapter 17 (Referenced Standards) 2015 edition UMC with DSA amendments continued for publication in the 2016 triennial edition of the CMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
Table 1701.0 Standards for Equipment and Materials	X	X	

**CHAPTER 17
REFERENCED STANDARDS**

1701.0 General.

...

**TABLE 1701.0
REFERENCED STANDARDS**

STANDARD NUMBER	STANDARD TITLE	APPLICATION	REFERENCED SECTION
...

...

**APPENDIX A – RESIDENTIAL PLAN EXAMINER
REVIEW FORM FOR HVAC SYSTEM DESIGN**

DSA is not proposing the adoption of Appendix A (Residential Plan Examiner Review Form for HVAC System Design) of the 2015 edition UMC. DSA did not adopt Appendix A (Residential Plan Examiner Review Form for HVAC System Design) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

**APPENDIX B – PROCEDURES TO BE FOLLOWED TO
PLACE GAS EQUIPMENT IN OPERATION**

DSA is not proposing the adoption of Appendix B (Procedures to be Followed to Place Gas Equipment in Operation) of the 2015 edition UMC. DSA did not adopt Appendix B (Procedures to be Followed to Place Gas Equipment in Operation) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

**APPENDIX C – INSTALLATION AND TESTING OF
OIL (LIQUID) FUEL-FIRED EQUIPMENT**

DSA is not proposing the adoption of Appendix C (Installation and Testing of Oil (Liquid) Fuel-Fired Equipment) of the 2015 edition UMC. DSA did not adopt Appendix C (Installation and Testing of Oil (Liquid) Fuel-Fired Equipment) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

**APPENDIX D – FUEL SUPPLY: MANUFACTURED/MOBILE HOME
PARKS AND RECREATIONAL VEHICLE PARKS**

DSA is not proposing the adoption of Appendix D (Fuel Supply: Manufactured/Mobile Home Parks and Recreational Vehicle Parks) of the 2015 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX E – SUSTAINABLE PRACTICES

DSA is not proposing the adoption of Appendix E (Sustainable Practices) of the 2015 edition UMC. DSA did not adopt Appendix E (Sustainable Practices) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

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

DSA is not proposing the adoption of Appendix F (Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliances, and Appliances Listed for Use With Type B Vents) of the 2015 edition UMC. DSA did not adopt Appendix F (Sizing of Venting Systems Serving Appliances Equipped with Draft Hoods, Category I Appliances, and Appliances Listed for Use With Type B Vents) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX G – EXAMPLE CALCULATION OF OUTDOOR AIR RATE

DSA is not proposing the adoption of Appendix G (Example Calculation of Outdoor Air Rate) of the 2015 edition UMC. DSA did not adopt Appendix G (Example Calculation of Outdoor Air Rate) of the 2012 edition UMC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

~~All existing amendments that are not revised above shall continue without any change.~~

Notation for [DSA-SS]

Authority: Education Code § 17310 and 81142, and H&S Code §16022.

References: Education Code §§ 17280 through 17317, and 81130 through 81147, and H&S Code §§16000 through 16023.

Notation for [DSA-SS/CC]

Authority: Education Code § 81053.

Reference: Education Code §§ 81052, 81053, and 81130 through 81147.

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
REGARDING THE ADOPTION BY REFERENCE OF THE
2015 EDITION OF THE UNIFORM MECHANICAL CODE WITH PROPOSED AMENDMENTS
INTO THE 2016 CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

(HCD 05/15)

The Department of Housing and Community Development (HCD) proposes to adopt the 2015 edition of the Uniform Mechanical Code (UMC) for codification and effectiveness into the 2016 edition of the California Mechanical Code (CMC) as presented on the following pages, including any necessary amendments. HCD further proposes to:

- Repeal the 2012 edition of the Uniform Mechanical Code;
- Repeal the 2013 edition of the California Mechanical Code, which includes amendments to the model code that are no longer necessary;
- Repeal or amend building standards that are not addressed by a model code;
- Relocate or codify existing adopted and necessary amendments to the model code into the format of the model code proposed for adoption, the action of which has no regulatory effect; adopt new necessary amendments to the model code proposed for adoption; and/or
- Adopt new building standards that are not addressed by the model code proposed for adoption.

LEGEND FOR EXPRESS TERMS:

1. **UMC language with new California amendments:** UMC language shown in normal Arial 9-point; California amendments to UMC text shown *underlined and in italics* with vertical bar in left margin.
 2. **Existing California amendments or code language being modified:** All such language shown in *italics*, modified language is *underlined* or shown in ~~strikeout~~ with vertical bar in left margin.
 3. **Existing California amendments with no modifications:** All such existing language shown in *italics*, modified model code language is shown in ~~strikeout~~.
 4. **Text not being modified:** All language not displayed in full is shown as "... " (i.e. ellipsis).
 5. **Repealed text:** All such language shown in ~~strikeout~~.
 6. **Notation:** Authority and Reference citations are provided at the end of each action.
-

1. HCD proposes to bring forward existing California Amendments in Chapter 1, Administration, Division I, California Administration from the 2013 California Mechanical Code for adoption into the 2016 California Mechanical Code with modifications as follows:

**CHAPTER 1
ADMINISTRATION
DIVISION I
CALIFORNIA ADMINISTRATION**

1.1.0 General

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 twelve parts of the official compilation and publication of the adoption, amendment, and repeal of mechanical regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the 2012 2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

1.1.2 Purpose. *The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.*

1.1.3 Scope. *The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout the State of California.*

1.1.3.1 Nonstate-Regulated Buildings, Structures, and Applications. *Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.*

1.1.3.2 State-Regulated Buildings, Structures, and Applications. *The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions, shall apply to the following buildings, structures, and applications regulated by state agencies as specified in Sections 1.2. through 1.14., except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the State Legislature.*

Note: *See Preface to distinguish the model code provisions from the California provisions.*

- (1) *State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section 1.2. for additional scope provisions.*
- (2) *Reserved for Correction Standards Authority. See Section 1.3. for additional scope provisions.*
- (3) *Barbering, cosmetology or electrolysis establishments, acupuncture offices, pharmacies, veterinary facilities, and structural pest control locations regulated by the Department of Consumer Affairs. See Section 1.4.0 for additional scope provisions.*
- (4) *Reserved for the California Energy Commission. See Section 1.5. for additional scope provisions.*
- (5) *Reserved for the Department of Food and Agriculture. See Section 1.6. for additional scope provisions.*

- (6) *Organized camps, laboratory animal quarters, public swimming pools, radiation protection, commissaries serving mobile food preparation vehicles, and wild animal quarantine facilities regulated by the Department of Public Health. See Section 1.7.0 for additional scope provisions.*
- (7) *Hotels, motels, lodging houses, ~~apartment houses~~, apartments, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing, and other types of dwellings containing sleeping accommodations with or without common toilets or cooking facilities. See Section 1.8.2.1.1 for additional scope provisions.*
- (8) *Accommodations for persons with disabilities in buildings containing newly constructed covered multifamily dwellings, new common use ~~spaces~~ areas serving existing covered multifamily dwellings, additions to existing buildings where the addition alone meets the definition of "COVERED MULTIFAMILY DWELLINGS," covered multifamily dwellings and new common-use spaces areas serving new covered multifamily dwellings which are regulated by the Department of Housing and Community Development. See Section 1.8.2.1.2 for additional scope provisions.*
- (9) *Permanent buildings and permanent accessory buildings or structures constructed within mobilehome parks and special occupancy parks regulated by the Department of Housing and Community Development. See Section 1.8.2.1.3 for additional scope provisions.*
- (10) *Accommodations for persons with disabilities regulated by the Division of the State Architect. See Section 1.9.1 for additional scope provisions.*
- (11) *Public elementary and secondary schools, community college buildings and state-owned or state-leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.*
- (12) *Reserved for the State Historical Building Safety Board with the Division of the State Architect.*
- (13) *General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the Department of Public Health, and correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section 1.10.0 for additional scope provisions.*
- (14) *Applications regulated by the Office of State Fire Marshal include but are not limited to the following in accordance with Section 1.11.0:*
 - (1) *Buildings or structures used or intended for use as an:*
 - 1.1. *Asylum, jail, prison.*
 - 1.2. *Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.*
 - 1.3. *Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building, or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*
 - 1.4. *Small family day care homes, large family day-care homes, residential facilities and residential facilities for the elderly, residential care facilities.*
 - 1.5. *State institutions or other state-owned or state-occupied buildings.*
 - 1.6. *High rise structures.*
 - 1.7. *Motion picture production studios.*
 - 1.8. *Organized camps.*
 - 1.9. *Residential structures.*
 2. *Tents, awnings, or other fabric enclosures used in connection with any occupancy.*
 3. *Fire alarm devices, equipment, and systems in connection with any occupancy.*
 4. *Hazardous materials, flammable, and combustible liquids.*
 5. *Public school automatic fire detection, alarm, and sprinkler systems.*

6. *Wildland-urban interface fire areas.*

- (15) *Public libraries constructed and renovated using funds from the California Library Construction and Renovation Bond Act of 1988 and regulated by the State Librarian. See Section 1.12. for additional scope provisions.*
- (16) *Graywater systems regulated by the Department of Water Resources. See Section 1.13. for additional scope provisions.*
- (17) *For applications listed in Section 1.9.1 regulated by the Division of the State Architect – Access Compliance, outdoor environments and uses shall be classified according to accessibility uses described in Chapters 11A, 11B, and 11C.*
- (18) *Marine Oil Terminals regulated by the California State Lands Commission. See Section 1.14. for additional scope provisions.*

1.1.4 Appendices. *Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.*

1.1.5 Referenced Codes. *The codes, standards and publications adopted and set forth in this code, including other codes, standards, and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural, or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.*

1.1.6 NonBuilding Standards, Orders and Regulations. *Requirements contained in the Uniform Mechanical Code, or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.*

1.1.7 Order of Precedence and Use.

1.1.7.1 Differences. *In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.*

1.1.7.2 Specific Provisions. *Where a specific provision varies from a general provision, the specific provision shall apply.*

1.1.7.3 Conflicts. *When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirement shall prevail.*

1.1.8 City, County, or City and County Amendments, Additions or Deletions. *The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 1.1.8.1. The effective date of amendments, additions, or deletions to this code by city, county, or city and county filed pursuant to Section 1.1.8.1 shall be the date filed. However, in no case shall the amendments, additions, or deletions to this code be effective any sooner than the effective date of this code.*

Local modifications shall comply with Health and Safety Code Section 18941.5 for Building Standards Law, Health and Safety Code Section 17958 for State Housing Law or Health and Safety Code Section 13869.7 for Fire Protection Districts.

1.1.8.1 Findings and Filings:

- (1) *The city, county, or city and county shall make express findings for each amendment, addition, or deletion based upon climatic, topographical, or geological conditions.*

Exception: *Hazardous building ordinances and programs mitigating unreinforced masonry buildings.*

- (2) The city, county, or city and county shall file the amendments, additions, or deletions expressly marked and identified as to the applicable findings. Cities, counties, cities and counties, and fire departments shall file the amendments, additions, or deletions, and the findings with the California Building Standards Commission at 2525 Natomas Park Drive, Suite 130, Sacramento, CA 95833.
- (3) Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or ~~1800 Third Street, P.O. Box 1407 Sacramento, CA 95812-140~~ 2020 W. El Camino Avenue, Suite 250, Sacramento, CA 95833-1829.

1.1.9 Effective Date of this Code. Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

1.1.10 Availability of Codes. At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county, or city and county shall have an up-to-date copy of the code available for public inspection, See Health and Safety Code Section 18942 ~~(d)~~(e) (1) and (2).

1.1.11 Format. This part fundamentally adopts the Uniform Mechanical Code by reference on a chapter-by-chapter basis. When a specific chapter of the Uniform Mechanical Code is not printed in the code and is marked "Reserved", such chapter of the Uniform Mechanical Code is not adopted as a portion of this code. When a specific chapter of the Uniform Mechanical Code is marked "Not Adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.

Note: Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but they are not to be considered regulatory.

1.1.12 Validity. If any chapter, section, subsection, sentence, clause or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes, or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.

1.8.0 Department of Housing and Community Development (HCD).

1.8.1 Purpose. The purpose of this code is to establish the minimum requirements necessary to protect the health, safety, and general welfare of the occupants and the public by governing the erection, construction, reconstruction, enlargement, conversion, alteration, repair, moving, removal, demolition, ventilation and maintenance or use of heating, ventilating, cooling, refrigeration systems, incinerators and other miscellaneous heat-producing appliances.

1.8.2 Authority and Abbreviations.

1.8.2.1 General. The Department of Housing and Community Development is authorized by law to promulgate and adopt building standards and regulations for several types of building applications. The applications under the authority of the Department of Housing and Community Development are listed in Sections 1.8.2.1.1 through 1.8.2.1.3.

1.8.2.1.1 Housing Construction.

Application - Hotels, motels, lodging houses, ~~apartment houses~~ apartments, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing, and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities including accessory buildings, facilities, and uses thereto. Sections of this code which pertain to applications listed in this section are identified using the abbreviation "HCD 1".

Enforcing Agency - Local building department or the Department of Housing and Community Development.

Authority Cited - Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

References - Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

1.8.2.1.2 Housing Accessibility.

Application - Covered multifamily dwellings as defined in Chapter 44A 2 of the California Code of Regulations, Title 24, Part 2, also known as the California Building Code (CBC) including, but not limited to, lodging houses, dormitories, timeshares, condominiums, shelters for homeless persons, congregate residences, ~~apartment houses~~ apartments, dwellings, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilet or cooking facilities.

Sections of this code identified by the abbreviation "HCD 1-AC" require specific accommodations for "~~PERSONS WITH DISABILITIES~~" persons with disabilities as defined in Chapter 44A 2 of the CBC California Building Code. The application of such provisions shall be in conjunction with other requirements of this code and apply only to newly-constructed "~~COVERED MULTIFAMILY DWELLINGS~~" covered multifamily dwellings as defined in Chapter 44A 2 of the CBC California Building Code. "HCD 1-AC" applications include, but are not limited to, the following:

- (1) All newly-constructed "~~COVERED MULTIFAMILY DWELLINGS~~" covered multifamily dwellings as defined in Chapter 44A 2 of the CBC California Building Code.
- (2) New "~~COMMON USE AREAS~~" common use areas as defined in Chapter 44A 2 of the CBC, California Building Code serving existing covered multifamily dwellings.
- (3) Additions to existing buildings, where the addition alone meets the definition of "~~COVERED MULTIFAMILY DWELLINGS~~" covered multifamily dwellings as defined in Chapter 44A 2 of the CBC California Building Code.
- (4) Common use areas serving covered multifamily dwellings.
- (5) Where any portion of a building's exterior is preserved, but the interior of the building is removed, including all structural portions of floors and ceilings, the building is considered a new building for determining the application of CBC-California Building Code, Chapter 11A.

"HCD 1-AC" building standards generally do not apply to public use areas or public accommodations such as hotels, ~~and motels~~, and public housing. Public use areas, public accommodations, and housing ~~which is publicly funded~~ as defined in Chapter 2 of the CBC California Building Code are subject to the Division of the State Architect (DSA-AC) in Chapter 11B, and are referenced in Section 1.9.1.

Newly constructed covered multifamily dwellings, which can also be defined as public housing, shall be subject to the requirements of chapter 11A and Chapter 11B.

Enforcing Agency: Local building department or the Department of Housing and Community Development.

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

References: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

1.8.2.1.3 Permanent Buildings in Mobilehome Parks and Special Occupancy Parks.

Application - Permanent buildings, and permanent accessory buildings or structures, constructed within mobilehome parks and special occupancy parks that are under the control and ownership of the park operator. Sections of this code which pertain to applications listed in this section are identified using the abbreviation "HCD 2".

Enforcing Agency: Local building department or other local agency responsible for the enforcement of Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 for mobilehome parks and Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860, for special occupancy parks; or the Department of Housing and Community Development.

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code 12955.1.

References: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

1.8.3 Local Enforcing Agency.

1.8.3.1 Duties and Powers. The building department of every city, county, or city and county shall enforce all the provisions of law, this code, and the other rules and regulations promulgated by the Department of Housing and Community Development pertaining to the installation, erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartment houses apartments, condominiums, hotels, motels, lodging houses and dwellings, including accessory buildings, facilities, and uses thereto.

The provisions regulating the erection and construction of dwellings and appurtenant structures shall not apply to existing structures as to which construction is commenced or approved prior to the effective date of these regulations. Requirements relating to use, maintenance and occupancy shall apply to all dwellings and appurtenant structures approved for construction or constructed before or after the effective date of this code. For additional information regarding the use and occupancy of existing buildings and appurtenant structures, see California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.

1.8.3.2 Laws, Rules, and Regulations. Other than the building standards contained in this code, and notwithstanding other provisions of law, the statutory authority and location of the laws, rules, and regulations to be enforced by local enforcing agencies are listed by statute in Sections 1.8.3.2.1 through 1.8.3.2.5 below:

1.8.3.2.1 State Housing Law. Refer to the State Housing Law, California Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910, and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1, for the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of apartment houses apartments, condominiums, hotels, motels, lodging houses, and dwellings, including accessory buildings, facilities, and uses thereto.

1.8.3.2.2 Mobilehome Parks Act. Refer to the Mobilehome Parks Act, California Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000 for mobilehome park administrative and enforcement authority, permits, plans, fees, violations, inspections and penalties both within and outside mobilehome parks.

Exception: Mobilehome parks where the Department of Housing and Community Development is the enforcing agency.

1.8.3.2.3 Special Occupancy Parks Act. Refer to the Special Occupancy Parks Act, California Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000 for special occupancy park administrative and enforcement authority, permits, fees, violations, inspections and penalties both within and outside of special occupancy parks.

Exception: Special occupancy parks where the Department of Housing and Community Development is the enforcing agency.

1.8.3.2.4 Employee Housing Act. Refer to the Employee Housing Act, California Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600 for employee housing administrative and enforcement authority, permits, fees, violations, inspections and penalties.

1.8.3.2.5 Factory-Built Housing Law. Refer to the Factory-Built Housing Law, California Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000 for factory-built housing administrative and enforcement authority, permits, fees, violations, inspections, and penalties.

1.8.4 Permits, Fees, Applications, and Inspections.

1.8.4.1 Permits. A written construction permit shall be obtained from the enforcing agency prior to the erection, construction, reconstruction, installation, relocation, or alteration of any mechanical system.

Exceptions:

- (1) Work exempt from permits as specified in Chapter 1, Administration, Division II, Section ~~412.2 through 412.2.5~~ 104.2 Items (1) through (5) of this code.
- (2) Changes, alterations, or repairs of a minor nature not affecting structural features, egress, sanitation, safety, or accessibility as determined by the enforcing agency.

Exemptions from permit requirements shall not be deemed to grant authorization for any work to be done in any manner in violation of other provisions of law or this code.

1.8.4.2 Fees. Subject to other provisions of law, the governing body of any city, county, or city and county may prescribe fees to defray the cost of enforcement of rules and regulations promulgated by the Department of Housing and Community Development. The amount of the fees shall not exceed the amount reasonably necessary to administer or process permits, certificates, forms, or other documents, or to defray the costs of enforcement. For additional information, see State Housing Law, Health and Safety Code, Division 13, Part 1.5, Section 17951 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, Article 3, commencing with Section 6.

1.8.4.3 Plan Review and Time Limitations. Subject to other provisions of law, provisions related to plan checking, prohibition of excessive delays, and contracting with or employment of private parties to perform plan checking are set forth in the State Housing Law, Health and Safety Code Section 17960.1, and for employee housing, in Health and Safety Code Section 17021.

1.8.4.3.1 Retention of Plans. The building department of every city, county, or city and county shall maintain an official copy, microfilm, or electronic or other type of photographic copy of the plans of every building, during the life of the building, for which the department issued a building permit.

Exceptions:

- (1) Single or multiple dwellings not more than two stories and basement in height.
- (2) Garages and other structures appurtenant to buildings listed in Exception 1.
- (3) Farm or ranch buildings appurtenant to buildings listed in Exception 1.
- (4) Any one-story building where the span between bearing walls does not exceed 25 feet (7620 mm), except a steel frame or concrete building.

All plans for common interest developments as defined in Section ~~4354~~ 4100 of the California Civil Code shall be retained. For additional information regarding plan retention and reproduction of plans by an enforcing agency, see Health and Safety Code Sections 19850 through 19852.

1.8.4.4 Inspections. Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until

approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or other regulations of the Department of Housing and Community Development.

1.8.5 Right of Entry for Enforcement.

1.8.5.1 General. Subject to other provisions of law, officers, and agents of the enforcing agency may enter and inspect public and private properties to secure compliance with the rules and regulations promulgated by the Department of Housing and Community Development. For limitations and additional information regarding enforcement, see the following:

- (1) For applications subject to State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
- (2) For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200, and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
- (3) For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860, and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.
- (4) For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
- (5) For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

1.8.6 Local Modification by Ordinance or Regulation.

1.8.6.1 General. Subject to other provisions of law, a city, county, or city and county may make changes to the provisions adopted by the Department of Housing and Community Development. If any city, county, or city and county does not amend, add, or repeal by local ordinances or regulations the provisions published in this code or other regulations promulgated by the Department of Housing and Community Development, those provisions shall be applicable and shall become effective 180 days after publication by the California Building Standards Commission. Amendments, additions, and deletions to this code adopted by a city, county, or city and county pursuant to California Health and Safety Code Sections 17958.5, 17958.7 and 18941.5, together with all applicable portions of this code, shall also become effective 180 days after publication of the California Building Standards Code by the California Building Standards Commission.

1.8.6.2 Findings, Filings, and Rejections of Local Modifications. Prior to making any modifications or establishing more restrictive building standards, the governing body shall make express findings and filings, as required by California Health and Safety Code Section 17958.7, showing that such modifications are reasonably necessary due to local climatic, geological, or topographical conditions. No modification shall become effective or operative unless the following requirements are met:

- (1) The express findings shall be made available as a public record.
- (2) A copy of the modification and express finding, each document marked to cross-reference the other, shall be filed with the California Building Standards Commission for a city, county, or city and county, and with the Department of Housing and Community Development for fire protection districts.
- (3) The California Building Standards Commission has not rejected the modification or change.

Nothing in this section shall limit the authority of fire protection districts pursuant to California Health and Safety Code Section 13869.7(a).

1.8.7. Alternate Materials, Designs, Tests, and Methods of Construction.

1.8.7.1 General. The provisions of this code as adopted by the Department of Housing and Community Development are not intended to prevent the use of any alternate material, appliance, installation, device, arrangement, design, or

method of construction not specifically prescribed by this code. Consideration and approval of alternates shall comply with Section 1.8.7.2 for local building departments and Section 1.8.7.3 for the Department of Housing and Community Development.

1.8.7.2 Local Building Departments. The building department of any city, county or city and county may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal, demolition, or arrangement of ~~an apartment house~~ apartments, condominiums, hotel-hotels, motel-motels, lodging house houses, dwelling dwellings, or an accessory structure structures, except for the following:

- (1) Structures located in mobilehome parks as defined in California Health and Safety Code Section 18214.
- (2) Structures located in special occupancy parks as defined in California Health and Safety Code Section 18862.43.
- (3) Factory-built housing as defined in California Health and Safety Code Section 19971.

1.8.7.2.1 Approval of Alternates. The consideration and approval of alternates by a local building department shall comply with the following procedures and limitations:

- (1) The approval shall be granted on a case-by-case basis.
- (2) Evidence shall be submitted to substantiate claims that the proposed alternate, in performance, safety, and protection of life and health, conforms to, or is at least equivalent to, the standards contained in this code and other rules and regulations promulgated by the Department of Housing and Community Development.
- (3) The local building department may require tests performed by an approved testing agency at the expense of the owner or owner's agent as proof of compliance.
- (4) If the proposed alternate is related to accessibility in covered multifamily dwellings or facilities serving "COVERED MULTIFAMILY DWELLINGS" covered multifamily dwellings as defined in Chapter 44A 2 of the CBC California Building Code, the proposed alternate must also meet the threshold set for "EQUIVALENT FACILITATION" equivalent facilitation as defined in Chapter 44A 2 of the CBC California Building Code.

For additional information regarding approval of alternates by a local building department pursuant to the State Housing Law, see California Health and Safety Code Section 17951(e) and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1.

1.8.7.3 Department of Housing and Community Development. The Department of Housing and Community Development may approve alternates for use in the erection, construction, reconstruction, movement, enlargement, conversion, alteration, repair, removal or demolition of ~~an apartment house~~ apartments, condominiums, hotel-hotels, motel motels, lodging house houses, dwelling dwellings, or an accessory structures thereto. The consideration and approval of alternates shall comply with the following:

- (1) The department may require tests at the expense of the owner or owner's agent to substantiate compliance with the California Building Standards Code.
- (2) The approved alternate shall, for its intended purpose, be at least equivalent in performance and safety to the materials, designs, tests, or methods of construction prescribed by this code.

1.8.8 Appeals Board.

1.8.8.1 General. Every city, county, or city and county shall establish a process to hear and decide appeals of orders, decisions, and determinations made by the enforcing agency relative to the application and interpretation of this code and other regulations governing construction, use, maintenance and change of occupancy. The governing body of any city, county, or city and county may establish a local appeals board and a housing appeals board to serve this purpose. Members of the appeals board(s) shall not be employees of the enforcing agency and shall be knowledgeable in the applicable building codes, regulations and ordinances as determined by the governing body of the city, county, or city and county.

Where no such appeals boards or agencies have been established, the governing body of the city, county, or city and county shall serve as the local appeals board or housing appeals board as specified in California Health and Safety Code Sections 17920.5 and 17920.6.

1.8.8.2 Definitions. The following terms shall for the purposes of this section have the meaning shown.

Housing Appeals Board. The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the requirements of the city, county, or city and county relating to the use, maintenance, and change of occupancy of buildings and structures, including requirements governing alteration, additions, repair, demolition, and moving. In any area in which there is no such board or agency, "Housing Appeals Board" means the local appeals board having jurisdiction over the area.

Local Appeals Board. The board or agency of a city, county, or city and county which is authorized by the governing body of the city, county, or city and county to hear appeals regarding the building requirements of the city, county, or city and county. In any area in which there is no such board or agency, "Local Appeals Board" means the governing body of the city, county, or city and county having jurisdiction over the area.

1.8.8.3 Appeals. Except as otherwise provided by law, any person, firm, or corporation adversely affected by a decision, order, or determination by a city, county, or city and county relating to the application of building standards published in the California Building Standards Code, or any other applicable rule or regulation adopted by the Department of Housing and Community Development, or any lawfully enacted ordinance by a city, county, or city and county, may appeal the issue for resolution to the local appeals board or housing appeals board as appropriate.

The local appeals board shall hear appeals relating to new building construction and the housing appeals board shall hear appeals relating to existing buildings.

1.8.9 Unsafe Buildings or Structures.

1.8.9.1 Authority to Enforce. Subject to other provisions of law, the administration, enforcement, actions, proceedings, abatement, violations, and penalties for unsafe buildings and structures are contained in the following statutes and regulations:

- (1) For applications subject to State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
- (2) For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
- (3) For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.
- (4) For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
- (5) For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

1.8.9.2 Actions and Proceedings. Subject to other provisions of law, punishments, penalties and fines for violations of building standards are contained in the following statutes and regulations:

- (1) For applications subject to the State Housing Law as referenced in Section 1.8.3.2.1 of this code, refer to Health and Safety Code, Division 13, Part 1.5, commencing with Section 17910 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 1, commencing with Section 1.
- (2) For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to Health and Safety Code, Division 13, Part 2.1, commencing with Section 18200 and California Code of Regulations, Title 25, Division 1, Chapter 2, commencing with Section 1000.
- (3) For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to Health and Safety Code, Division 13, Part 2.3, commencing with Section 18860 and California Code of Regulations, Title 25, Division 1, Chapter 2.2, commencing with Section 2000.

- (4) For applications subject to the Employee Housing Act as referenced in Section 1.8.3.2.4 of this code, refer to Health and Safety Code, Division 13, Part 1, commencing with Section 17000 and California Code of Regulations, Title 25, Division 1, Chapter 1, Subchapter 3, commencing with Section 600.
- (5) For applications subject to the Factory-Built Housing Law as referenced in Section 1.8.3.2.5 of this code, refer to Health and Safety Code, Division 13, Part 6, commencing with Section 19960 and California Code of Regulations, Title 25, Division 1, Chapter 3, Subchapter 1, commencing with Section 3000.

1.8.10 Other Building Regulations.

1.8.10.1 Existing Structures. Notwithstanding other provisions of law, the replacement, retention, and extension of original materials and the use of original methods of construction for any existing building or accessory structure, or portions thereof, shall be permitted in accordance with the provisions of this code and the California Existing Building Code, as adopted by the Department of Housing and Community Development. For additional information, see California Health and Safety Code, Sections 17912, 17920.3, 17922 and 17958.8.

~~**1.8.10.2 Moved Structures.** Subject to the requirements of California Health and Safety Code Sections 17922.3 and 17958.9, local ordinances or regulations relating to a moved residential building or accessory structure thereto, shall, after July 1, 1978, permit the retention of existing materials and methods of construction so long as the structure does not become or continue to be a substandard building.~~

1.8.10.2 Moved Structures. Subject to the requirements of California Health and Safety Code Sections 17922, 17922.3 and 17958.9, local ordinances or regulations relating to a moved residential building or accessory structure thereto, shall permit the replacement, retention, and extension of original materials and the use of original methods of construction so long as the structure does not become or continue to be a substandard building.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

2. HCD proposes to adopt Chapter 1, Administration, Section 104.2 (Items 1-5) only, from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code Chapter 1, Division II, Administration without amendment:

DIVISION II ADMINISTRATION

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

3. HCD proposes to adopt Chapter 2 from the 2015 Uniform Mechanical Code and bring forward existing amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code as follows:

**CHAPTER 2
DEFINITIONS**

203.0 -A-

Approved. Acceptable to the Authority Having Jurisdiction.

Exception: (HCD 1 & HCD 2) "Approved" means meeting the approval of the Enforcing Agency, except as otherwise provided by law, when used in connection with any system, material, type of construction, fixture or appliance as the result of investigations and tests conducted by the agency, or by reason of accepted principles or tests by national authorities, or technical, health, or scientific organizations or agencies.

Notes:

- (1) See Health and Safety Code Section 17920 for "Approved" as applied to residential construction and buildings or structures accessory thereto, as referenced in Sections 1.8.2.1.1 and 1.8.2.1.2.
- (2) See Health and Safety Code Section 17921.1 for "Approved" as applied to the use of hotplates in residential construction referenced in Sections 1.8.2.1.1 and 1.8.2.1.2.
- (3) See Health and Safety Code Section 19966 for "Approved" as applied to Factory-Built Housing as referenced in Sections 1.8.2.1.1 and 1.8.2.1.2.
- (4) See Health and Safety Code Section 18201 for "Approved" as applied to Mobilehome Parks as referenced in Section 1.8.2.1.3.
- (5) See Health and Safety Code Section 18862.1 for "Approved" as applied to Special Occupancy Parks as referenced in Section 1.8.2.1.3.

Approved Testing Agency. An organization primarily established for purposes of testing to approved standards and approved by the Authority Having Jurisdiction. **(HCD 1 & HCD 2)** "Approved Testing Agency" is any agency which is determined by the Enforcing Agency, except as otherwise provided by statute, to have adequate personnel and expertise to carry out the testing of systems, materials, and various types of construction, fixtures or appliances.

Assembly Building. A building or a portion of a building used for the gathering together of 50 or more persons for such purposes as deliberation, education, instruction, worship, entertainment, amusement, drinking, dining, or awaiting transportation. **(HCD 1 & HCD 2)** Refer to the California Building Code, Title 24, Part 2, for use and occupancy classification.

Authority Having Jurisdiction. The organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, installations, or procedures. The Authority Having Jurisdiction shall be a federal, state, local, or other regional department or an individual such as a plumbing official, mechanical official, labor department official, health department official, building official, or others having statutory authority. In the absence of a statutory authority, the Authority Having Jurisdiction may be some other responsible party. This definition shall include the Authority Having Jurisdiction's duly authorized representative.

(HCD 1 & HCD 2) "Authority Having Jurisdiction" shall mean "Enforcing Agency" as defined in Section 207.0 of this code.

204.0 -B-

Building. **(HCD 1 & HCD 2)** Any structure used or intended for supporting or sheltering any use or occupancy.

Exceptions: "Building" shall not include the following:

- (1) Any mobilehome as defined in Health and Safety Code Section 18008.
- (2) Any manufactured home as defined in Health and Safety Code Section 18007.
- (3) Any commercial modular as defined in Health and Safety Code Section 18001.8 or any special purpose commercial modular as defined in Health and Safety Code Section 18012.5.
- (4) Any recreational vehicle as defined in Health and Safety Code Section 18010.
- (5) Any multifamily manufactured home, as defined in Health and Safety Code Section 18008.7.

For additional information, see Health and Safety Code Section 18908.

Building Code. The building code that is adopted by this jurisdiction. *(HCD 1 & HCD 2) "Building Code" shall mean the California Building Code, Title 24, Part 2.*

206.0 -D-

Department. *(HCD 1 & HCD 2) "Department" means the Department of Housing and Community Development.*

207.0 -E-

Electrical Code. The National Electrical Code promulgated by the National Fire Protection Association, as adopted by this jurisdiction. *(HCD 1 & HCD 2) Whenever the term "Electrical Code" is used in this code, it shall mean the California Electrical Code, Title 24, Part 3.*

Enforcing Agency. *(HCD 1 & HCD 2) "Enforcing Agency" is the designated department or agency as specified by statute and regulation.*

208.0 -F-

Family. *(HCD 1) "Family" is an individual or two or more persons who are related by blood or marriage, or otherwise, live together in a dwelling unit.*

214.0 -L-

Labeled. Equipment or materials bearing a label of a listing agency (accredited conformity assessment body). See Listed (Third Party Certified). *(HCD 1 & HCD 2) "Labeled" means equipment or materials to which has been attached a label, symbol or other identifying mark of an organization, approved by the Department, that maintains a periodic inspection program of production of labeled products, installations, equipment, or materials and by whose labeling the manufacturer indicates compliance with appropriate standards or performance in a specified manner.*

Listed (Third Party Certified). Equipment or materials included in a list published by a listing agency (accredited conformity assessment body) that maintains periodic inspection on current production of listed equipment or materials and whose listing states either that the equipment or material complies with approved standards or has been tested and found suitable for use in a specified manner. *(HCD 1 & HCD 2) "Listed" means all products that appear in a list published by an approved testing or listing agency. For additional information, see Health and Safety Code Section 17920(h).*

Listing Agency. An agency accredited by an independent and authoritative conformity assessment body to operate a material and product listing and labeling (certification) system and that is accepted by the Authority Having Jurisdiction, which is in the business of listing or labeling. The system includes initial and ongoing product testing, a periodic inspection on current production of listed (certified) products, and that makes available a published report of such listing in which specific information is included that the material or product is in accordance with applicable standards and found safe for use in a specific manner. *(HCD 1 & HCD 2) "Listing Agency" means an agency approved by the Department that is in the business of listing and labeling products, materials, equipment, and installations tested by an approved testing agency, and that maintains a periodic inspection program on current*

production of listed products, equipment, and installations, and that at least annually makes available a published report of these listings. For additional information, see Health and Safety Code Section 17920(i).

216.0 -N-

Nuisance. (HCD 1 & HCD 2) "Nuisance" shall mean any nuisance as defined in Health and Safety Code Section 17920(k).

Notes:

1. For applications subject to the Mobilehome Parks Act as referenced in Section 1.8.3.2.2 of this code, refer to California Code of Regulations, Title 25, Division 1, Chapter 2 for the definition of "Nuisance".
2. For applications subject to the Special Occupancy Parks Act as referenced in Section 1.8.3.2.3 of this code, refer to California Code of Regulations, Title 25, Division 1, Chapter 2.2 for the definition of "Nuisance".

217.0 -O-

Occupancy Classification. Classifications are defined in the California Building Code. (HCD 1 & HCD 2) Whenever the term "Building Code" is used in this code, it shall mean the California Building Code, Title 24, Part 2.

218.0 -P-

Plumbing Code. The Uniform Plumbing Code promulgated by the International Association of Plumbing and Mechanical Officials, as adopted by this jurisdiction. (HCD 1 & HCD 2) Whenever the term "Plumbing Code" is used in this code, it shall mean the California Plumbing Code, Title 24, Part 5.

222.0 -T-

Testing Agency. (HCD 1 & HCD 2) See "Approved Testing Agency".

223.0 -U-

UMC. (HCD 1 & HCD 2) The most recent edition of the Uniform Mechanical Code published by the International Association of Plumbing and Mechanical Officials.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, Sections 17910 through 17995.5, Sections 18200 through 18700, Sections 18860 through 18874, and Sections 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

4. HCD proposes to adopt Chapter 3 from the 2015 Uniform Mechanical Code and bring forward existing California amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code as follows:

**CHAPTER 3
GENERAL REGULATIONS**

303.7.1 (Formerly 303.8.1) Liquefied Petroleum Gas Appliances. (HCD 1 & HCD 2) Liquefied petroleum gas-burning appliances shall not be installed in a pit, basement, or similar location where heavier-than-air gas might

collect. Appliances so fueled shall not be installed in an above-grade under-floor space or basement unless such location is provided with an approved means for removal of unburned gas.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, Sections 17910 through 17995.5, Sections 18200 through 18700, Sections 18860 through 18874, and Sections 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

5. HCD proposes to adopt Chapter 4 from the 2015 Uniform Mechanical Code and bring forward existing California amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code as follows:

**CHAPTER 4
VENTILATION AIR**

402.5 Bathroom Exhaust Fans. (HCD 1 & HCD 2) Each bathroom shall be mechanically ventilated in accordance with Division 4.5 of the California Green Building Standards Code (CALGreen).

....

403.7.2.1 (Formerly 403.9.1) Alternative Exhaust Ventilation for Enclosed Parking Garages.

403.7.2.2 (Formerly 403.9.1.1) Minimum Exhaust Rate. (HCD 1 & HCD 2) In lieu of the exhaust rates of Table 403.7, ventilation systems shall be capable of providing 14,000 cfm (6608 L/s) of exhaust air for each operating vehicle. Number of operating vehicles shall be determined based on 2.5 percent of all parking spaces (and not less than one vehicle).

403.7.2.3 (Formerly 403.9.1.2) Exhaust Inlet Distribution. (HCD 1 & HCD 2) To ensure proper exhaust of contaminated air and fumes from parking garages, exhaust systems utilizing multiple exhaust inlets shall be designed so that exhaust inlets are distributed in such a manner that no portion of the parking garage is more than 50 feet (15,240 mm) from an exhaust inlet. Such exhaust inlets shall be installed so that the highest elevation of the exhaust inlet is no greater than 12 inches (305 mm) below the lowest ceiling level.

Exception: Garage exhaust systems designed without distributed exhaust inlets may have their exhaust inlets designed based on the principles of engineering and mechanics and shall provide the minimum required exhaust rate in Table 403.7.

403.7.2.4 (Formerly 403.9.1.3) Exhaust System Operation. (HCD 1 & HCD 2) Exhaust systems shall operate continuously unless one of the exceptions to continuous operation of Section 403-9 403.7 is utilized.

**TABLE 403.7
MINIMUM EXHAUST RATES
(ASHRAE 62.1: TABLE 6.5)**

OCCUPANCY CATEGORY ⁶	EXHAUST RATE cfm/unit	EXHAUST RATE cfm/ft ²	EXHAUST RATE L/s-unit	AIR CLASS
Bathroom ^{9,10,11}	20/50	-	10/25	<u>2</u>

Notes:

⁹⁻¹⁰ (HCD 1 & HCD 2) A bathroom is any room containing a bathtub a shower, a spa, or a similar source of moisture.
~~40-11~~ (HCD 1 & HCD 2) ANSI/ASHRAE 62.2: Tables 5.1 & 5.2.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

6. HCD proposes to adopt Chapter 4 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code and repeal existing California amendments from the 2013 California Mechanical Code as follows:

**CHAPTER 4
VENTILATION AIR**

~~403.9 Exhaust Ventilation for Enclosed Parking Garages. (HCD 1 & HCD 2) Exhaust airflow for enclosed parking garages shall be provided in accordance with the requirements in Table 403.7 and this section. Exhaust makeup air shall be permitted to be any combination of outdoor air or transfer air. Exhaust systems shall operate continuously.~~

Exceptions:

~~(1) (HCD 1 & HCD 2) Mechanical ventilation systems used for enclosed parking garages shall be permitted to operate intermittently where the system is arranged to operate automatically upon detection of vehicle operation or the presence of occupants by approved automatic detection devices.~~

~~(2) (HCD 1 & HCD 2) Automatic carbon monoxide sensing devices may be employed to modulate the ventilation system to not exceed a maximum average concentration of carbon monoxide of 50 parts per million during any eight-hour period, with a maximum concentration not greater than 200 parts per million for a period not exceeding one hour. Automatic carbon monoxide sensing devices employed to modulate parking garage ventilation systems shall be approved pursuant to the requirements in Section 302.1.~~

7. HCD proposes to adopt Chapter 5 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 5
EXHAUST SYSTEMS**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

8. HCD proposes to adopt Chapter 6 from the 2015 Uniform Mechanical Code and bring forward existing California amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code as follows:

**CHAPTER 6
DUCT SYSTEMS**

601.2 Sizing Requirements. Duct systems used with blower-type equipment that are portions of a heating, cooling, absorption, evaporative cooling, or outdoor-air ventilation system shall be sized in accordance with an approved standard listed in Table 1701.1, or by other approved methods.

Exception: (HCD 1 & HCD 2) Duct sizing calculations are not required for existing duct systems.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

9. HCD proposes to adopt Chapter 7 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 7
COMBUSTION AIR**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

10. HCD proposes to adopt Chapter 8 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 8
CHIMNEYS AND VENTS**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

11. HCD proposes to adopt Chapter 9 from the 2015 Uniform Mechanical Code and bring forward existing California amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code as follows:

**CHAPTER 9
INSTALLATION OF SPECIFIC APPLIANCES**

912.0 Gas Fireplaces, Vented.

912.1 ~~Reserved~~ Prohibited Installations. Vented gas fireplaces shall not be installed in bathrooms or bedrooms unless the appliance is listed and the bedroom or bathroom has the required volume in accordance with Section 701.4.

Exception: Direct vent gas fireplaces. [NFPA 54:10.7.4]

912.2 Installation. The installation of vented gas fireplaces shall comply with the following requirements:

(1) (HCD 1 & HCD 2) Any newly installed gas fireplace shall be a direct-vent sealed-combustion type.

- ~~(4)~~ **(2)** Listed vented gas fireplaces shall be installed in accordance with their listing and the manufacturer's installation instructions and where installed in or attached to combustible material shall be specifically listed for such installation.
- ~~(2)~~ **(3)** Unlisted vented gas fireplaces shall not be installed in or attached to combustible material. They shall have a clearance at the sides and rear of not less than 18 inches (457 mm). Combustible floors under unlisted vented gas fireplaces shall be protected in an approved manner. Unlisted appliances of other than the direct-vent type shall be equipped with a draft hood and shall be vented in accordance with Section 802.0. Appliances that use metal, asbestos, or ceramic material to direct radiation to the front of the appliance shall have a clearance of 36 inches (914 mm) in front and, where constructed with a double back of metal or ceramic, shall be installed with a clearance of not less than 18 inches (457 mm) at the sides and 12 inches (305 mm) at the rear.
- ~~(3)~~ **(4)** Panels, grilles, and access doors that are required to be removed for normal servicing operations shall not be attached to the building.
- ~~(4)~~ **(5)** Direct-vent gas fireplaces shall be installed with the vent air intake terminal in the outdoors and in accordance with the manufacturer's installation instructions.

916.2.1 (Formerly 924.1) Prohibited Installations. Unless specifically permitted by the Authority Having Jurisdiction, unvented room heaters shall not be installed as primary heat sources. Unvented room heaters shall not be permitted in spaces that do not have the required volume of indoor air as defined in Section 701.4.

(HCD 1 & HCD 2) Unvented fuel-burning room heaters shall not be installed, used, maintained, or permitted to exist in a Group R Occupancy.

916.2.1.1 (Formerly 924.1.1) Unvented Room Heaters. Unvented room heaters shall not be installed in bathrooms or bedrooms.

Exceptions:

- (1) Where approved by the Authority Having Jurisdiction, one listed wall-mounted unvented room heater equipped with an oxygen depletion safety shutoff system shall be permitted to be installed in a bathroom provided that the input rating shall not exceed 6000 Btu/h (1.76 kW) and combustion and ventilation air is provided as specified in Section 902.2.
- (2) Where approved by the Authority Having Jurisdiction, one listed wall-mounted unvented room heater equipped with an oxygen depletion safety shutoff system shall be permitted to be installed in a bedroom provided that the input rating shall not exceed 10 000 Btu/h (3 kW) and combustion and ventilation air is provided as specified in Section 902.2. (NFPA 54:10.23.1)
- (3) Portable oil fired unvented heating appliances used as supplemental heating in storage occupancies, utility occupancies, and in accordance with the fire code.

(HCD 1 & HCD 2) Unvented fuel-burning room heaters shall not be installed, used, maintained, or permitted to exist in a Group R Occupancy.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

12. HCD proposes to adopt Chapter 10 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

CHAPTER 10
BOILERS AND PRESSURE VESSELS

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

13. HCD proposes to adopt Chapter 11 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

CHAPTER 11
REFRIGERATION

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

14. HCD proposes to adopt Chapter 12 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

CHAPTER 12
HYDRONICS

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

15. HCD proposes to adopt Chapter 13 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 13
FUEL GAS PIPING**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

16. HCD proposes to NOT adopt Chapter 14 from the 2015 Uniform Mechanical Code.

**CHAPTER 14
PROCESS PIPING**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

17. HCD proposes to adopt Chapter 15 from the 2015 Uniform Mechanical Code and bring forward existing California amendments from the 2013 California Mechanical Code into the 2016 California Mechanical Code with modifications as follows:

**CHAPTER 15
SOLAR ENERGY SYSTEMS**

1502.0 General. (HCD 1 & HCD 2) For applications listed in Section 1.8.2 regulated by the Department of Housing and Community Development, see Health and Safety Code Section 17959.1, and Civil Code Section 714, 801.5, and Government Code Section 65850.5.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

18. HCD proposes to adopt Chapter 16 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 16
STATIONARY POWER PLANTS**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

19. HCD proposes to adopt Chapter 17 from the 2015 Uniform Mechanical Code into the 2016 California Mechanical Code without amendment:

**CHAPTER 17
REFERENCED STANDARDS**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

20. HCD proposes to NOT adopt Appendix A from the 2015 Uniform Mechanical Code.

**APPENDIX A
RESIDENTIAL PLAN EXAMINER REVIEW FORM FOR HVAC SYSTEM DESIGN
(Loads, Equipment, Ducts) [ACCA]**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

21. HCD proposes to NOT adopt Appendix B from the 2015 Uniform Mechanical Code.

**APPENDIX B
PROCEDURES TO BE FOLLOWED TO PLACE GAS EQUIPMENT IN OPERATION**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

22. HCD proposes to NOT adopt Appendix C from the 2015 Uniform Mechanical Code.

**APPENDIX C
INSTALLATION AND TESTING OF OIL (LIQUID) FUEL-FIRED EQUIPMENT**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

23. HCD proposes to NOT adopt Appendix D from the 2015 Uniform Mechanical Code:

APPENDIX D

FUEL SUPPLY: MANUFACTURED/MOBILE HOME PARKS AND RECREATIONAL VEHICLE PARKS

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

24. HCD proposes to NOT adopt Appendix E from the 2015 Uniform Mechanical Code.

APPENDIX E

SUSTAINABLE PRACTICES

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

25. HCD proposes to NOT adopt Appendix F from the 2015 Uniform Mechanical Code.

APPENDIX F

**SIZING OF VENTING SYSTEMS AND OUTDOOR COMBUSTION
AND VENTILATION OPENING DESIGN**

(The content of this Appendix is based on Annex F and Annex I of NFPA 54)

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

26. HCD proposes to NOT adopt Appendix G from the 2015 Uniform Mechanical Code.

**APPENDIX G
EXAMPLE CALCULATION OF OUTDOOR AIR RATE**

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17920.9, 17921, 17921.3, 17921.6, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT**

**REGARDING PROPOSED CHANGES TO
CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

LEGEND FOR FINAL EXPRESS TERMS (combination of 45-day and 15-day changes)

1. For 45-day and 15-Day changes, existing California amendments or code language being modified appears in italics, with modified language underlined.
2. For 45-day and 15-Day changes, repealed text appears in ~~strikeout~~.
3. Highlighted text: The highlighted text provides only clarification of proposed language.

FINAL EXPRESS TERMS

**CHAPTER 1
ADMINISTRATION**

**DIVISION I
CALIFORNIA ADMINISTRATION**

Adopt 2015 Uniform Mechanical Code (UMC) Chapter 1 and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4.

**DIVISION II
ADMINISTRATION**

Adopt 2015 Uniform Mechanical Code (UMC) Chapter 1 and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 101.3 is to be carried forward to Section 102.1.

401.3-102.1 Conflicts Between Codes. Where the requirements within the jurisdiction of this mechanical code conflict with the requirements of the plumbing code, the plumbing code shall prevail. In instances ... prevail. **[OSHPD 1, 2, 3 & 4]** See Chapter 1, Division I, Section 1.1.7.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

**CHAPTER 2
DEFINITIONS**

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications.

Section 221.0 - S -

State Building Code. [OSHPD 1, 2, 3 & 4] is the most recent edition of the California Building Code.

Notation

CHAPTER 3 GENERAL REQUIREMENTS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendments of Section 303.3 are to be carried forward to Section to 303.2.

303.32 Closet or Alcove Installations. Central heating furnaces and boilers installed in closets or alcoves shall be listed for such installation. Central heating furnaces not listed for closet or alcove installation shall be installed in a room or space having a volume not less than 12 times the total volume of the furnace. Central heating boilers not listed for closet or alcove installation shall be installed in a room or space having a volume 16 times the volume of the boiler. **[OSHPD 1, 2, 3 & 4]** *The total volume of the boilers shall be based on the total number of central-heating boilers that can operate at the same time.*

Exceptions-:

(2)-[OSHPD 1, 2, 3 & 4] A 25 percent reduction in the boiler room volume is allowed with forced-draft boilers and approved ventilation of the boiler room. In no case shall boiler room volume or clearances be reduced below those required by the conditions of the boiler listing. The boiler and the boiler room ventilation system, including fans, controls, and damper motors shall be on emergency power when required by Section 326.0. The ventilation system shall either operate continuously, or, if interlocked with the boiler(s) it shall not interfere with the proper boiler operation.

Where the ceiling height of the room or space exceeds 8 feet (2438 mm), the volume shall be calculated on the basis of an 8 foot (2438 mm) height.

The installation clearances shall be ...

The following 2013 CMC OSHPD amended sections are being renumbered to align with the renumbering of 2015 UMC Chapter 3.

317.4 Excavations. Excavations shall be ... filled or made ground.

323.0-318.0 Scope.

323.1-318.1 Applicability. *This part is applicable to health facilities regulated by OSHPD (See Adoption Tables for application for specific sections).*

323.2-318.2 Services/Systems and Utilities. *Refer to Section 1224.4.1 of the California Building Code.*

324.0-319.0 Steam and Hot-Water Systems.

324.1 319.1 Requirements for Hospitals and Optional Services Provided in Correctional Treatment Centers. **[OSHPD 1 & 4]**

324.1.1 319.1.1 Boilers ... equipment.

324.1.2 319.1.2 A minimum ... boiler.

324.1.3 319.1.3 Boiler systems ... Region X.

324.1.4 319.1.4 Boiler feed pumps ... requirement.

324.1.5 319.1.5 At least two sources ... that service.

324.2 319.2 Requirements for Skilled Nursing, Intermediate Care Facilities and Basic Services Provided in Correctional Treatment Centers. [For OSHPD 2 & 4]

324.2.1 319.2.1 Boilers, if provided, shall accommodate Section ~~324.1~~ 319.1

324.2.2 319.2.2 Two or more interconnected water heaters are an acceptable means to provide two sources of heat for hot water (See Section ~~324.1.5~~ 319.1.5).

325.0 320.0 Air Conditioning and Heating Systems.

325.1 320.1 Requirements for Hospitals and Optional Services Provided in Correctional Treatment Centers. [OSHPD 1 & 4]

325.1.1 320.1.1 The systems shall be designed to provide the temperatures and relative humidity for sensitive areas or rooms shown in Table ~~325.0.320.0~~ When outdoor humidity and internal moisture sources are not sufficient to meet the requirements of Table ~~325.0.320.0~~, humidification shall be provided by means of the health-care facility air-handling systems. Temperature shall be individually controlled for each operating and delivery room. Burn unit patient rooms that require humidifiers to comply with Table ~~325.0.320.0~~ shall be provided with individual humidity control. All humidifiers shall use dry steam. Humidifiers shall be located within air handling systems or ductwork to avoid moisture accumulation in downstream components, including filters and insulation.

325.1.2 320.1.2 For occupied areas not shown in Table ~~325.0.320.0~~, heating systems shall be designed to provide 70°F to 75°F (21.1°C to 23.9°C) based on the Median of Extremes shown by the 1982 ASHRAE Climatic Data for Region X and ASHRAE 1994 Supplement to Climatic Data for Region X Climatic Design Data in the most recent version of ASHRAE Handbook-Fundamentals. The systems shall be thermostatically controlled with appropriate zoning to achieve the above conditions.

325.1.3 320.1.3 For occupied areas not shown in Table ~~325.0.320.0~~, cooling systems shall be designed to provide 75°F (23.9°C) maximum based on the 0.5, 4 percent summer design dry bulb temperatures shown by the 1982 ASHRAE Climatic Data for Region X and ASHRAE 1994 Supplement to Climatic Data for Region X Climatic Design Data in the most recent version of ASHRAE Handbook-Fundamentals. The systems shall be thermostatically controlled with appropriate zoning to achieve the above conditions.

325.2 320.2 Requirements for Skilled Nursing, Intermediate Care Facilities and Basic Services Provided in Correctional Treatment Centers. [For OSHPD 2 & 4]

325.2.1 320.2.1 Systems shall accommodate the provisions of Section ~~325.1.2~~ 320.1.2 through ~~325.1.3~~ 320.1.3.

325.2.2 320.2.2 Where air is provided, the system shall be thermostatically controlled in one or more zones.

325.3 320.3 Requirements for Outpatient Facilities and Licensed Clinics. [For OSHPD 3]

325.3.1 320.3.1 The system shall be designed to provide the temperature and humidity's for sensitive areas for rooms shown in Table ~~325.0.320.0~~

**TABLE 325.0 320.0
HEATING, COOLING, AND RELATIVE HUMIDITY
REQUIREMENTS FOR SENSITIVE AREAS OR ROOMS**

Area or Rooms Designation	Temperature Range ^{1,2}	Relative Humidity ^{1,3}
	°F	Percent
Operating room	68-75	20-60
Cystoscopy	68-75	20-60
Cardiac catheterization lab	70-75	max 60
Trauma/cardiac room	70-75	20-60
Delivery room, Caesarean operating room	68-75	20-60
Gastrointestinal endoscopy procedure room	68-73	20-60
Post-Anesthesia Care Unit	70-75	30 20-60
Newborn nursery	72-78	30-60
Newborn Intensive-care nursery unit	70-75 72-78	30-60
Intensive care ⁴	70-75	30-60
Burn Unit	70-75	40-60

- 1 Thermostats and humidistat shall be either locally resettable and of the non-locking type or remotely resettable and of the locking type.
- 2 Systems shall be capable of maintaining the rooms within the range during normal operation. Lower or higher temperature shall be permitted when patients' comfort and/or medical conditions require those conditions.
- 3 The ranges listed are the minimum and maximum limits where control is specifically needed.
- 4 Types of intensive care service spaces are listed in the California Building Code.

326.0 321.0 Essential Mechanical Provisions. [OSHPD 1, 2, 3 (Surgical Clinics only) & 4] During periods of power outages essential electrical power shall be provided for the following equipment:

326.1 321.1 (Does not apply to OSHPD 3 surgical clinic.) All heating equipment necessary to maintain a minimum temperature of 60°F (15.6°) in patient areas which are not specified in Table 325.0 320.0.

326.2 321.2 All heating equipment necessary to maintain the minimum temperatures for sensitive areas as specified in Table 325.0 320.0.

326.3 321.3 Equipment necessary for humidification of the areas listed in Table 325.0-320.0

326.4 321.4 All supply, return, and exhaust fans required to maintain the positive and negative air balances as required in Table 4-A.

326.5 321.5 All control components and control systems necessary for the normal operation of equipment required to have essential electrical power.

326.6 321.6 Alarms for airborne infection isolation rooms and protective environment rooms.

CHAPTER 4 VENTILATION AIR

Adopt the 2015 Uniform Mechanical Code (UMC) and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

401.1 Applicability. This chapter contains requirements for ventilation air supply, exhaust, and makeup air requirements for occupiable spaces within a building. **[OSHPD 1, 2, 3 & 4]** See Sections 404.0 through 418.0.

402.0 Ventilation Air. *[Not permitted for OSHPD 1, 2, 3, and 4]*

403.0 Ventilation Rates. *[Not permitted for OSHPD 1, 2, 3 & 4]*

...

407.4 Air Circulation.

407.4.1 Design of the ventilation system shall provide air movement that is generally from clean to less clean areas.

407.4.1.1 Air supplied to operating rooms, cesarean operating rooms, cardiac catheterization labs, cystoscopy rooms, delivery rooms, and nurseries shall be delivered at or near the ceiling of the area served. In ~~theses~~ areas and in morgues and autopsy rooms all air removed from the area shall be removed near floor level. Exhaust or recirculation inlets shall be located not less than 3 inches (76 mm) nor more than 8 inches (203 mm) above the finished floor, except in morgues and autopsy rooms where all of the exhaust air is removed through an autopsy table designed for this purpose. At least two exhaust or recirculation air inlets of equal capacity shall be used in all cardiac catheterization labs, cystoscopy rooms, operating rooms, and delivery rooms and shall be located not less than 3 inches (76 mm) nor more than 8 inches (203 mm) above the finished floor.

...

407.4.1.4 No space above a ceiling may be utilized as an outside-air, relief-air, supply-air, exhaust-air, or return-air plenum.

Exceptions:

(1) Designs specifically approved by the enforcing agency.

(2) Return air plenums shall be permitted for [OSHPD 3] provided that applicable spaces listed in Table 4A that have required pressure relationships shall be served by fully ducted supply, return, and exhaust systems. The following additional surgery and critical-care patient-care areas that do not require a pressure relationship shall also be served by fully ducted supply, return, and exhaust systems: 1) Recovery rooms, and 2) Treatment rooms.

In facilities that treat inpatients, mechanical systems shall only utilize fully ducted systems for supply, return, and exhaust air.

...

408.0 Filters. **[OSHPD 1, 2, 3 & 4]**

...

408.1.5 Filter bank No. 1 shall be located upstream of the air-conditioning equipment. Filter bank No. 2 and filter bank No. 3 shall be located downstream of the supply fan and all cooling and humidification equipment with efficiencies as indicated in Table 4-B or Table 4-C.

Exception: Dry steam-type humidifiers for local room humidity control may be installed in the supply air duct downstream of the final filter bank where designs are specifically approved by the enforcing agency.
Dry steam is that which is defined in the ASHRAE HVAC Systems and Equipment Handbook.

...

408.2.2 Noncentral recirculating air systems providing cooling to high heat producing equipment located in nonsensitive areas shall have a filter with 30 percent average efficiency based on ASHRAE 52.2-2007 or a minimum efficiency reporting value (MERV) of 8 based on ASHRAE 52.2-2007.

...

408.2.4 Noncentral recirculating air handling systems, for example, through-the-wall units, fan coil units, and heat pumps may be utilized for single patient rooms of one or more beds. Filtration for these units shall have a minimum weight arrestance value of 50 percent, based on ASHRAE 52.2-2007 or a minimum efficiency reporting value (MERV) of 1, based on ASHRAE 52.2-2007. The air ventilation system providing the minimum air changes of outdoor air shall comply with Table 4-B. These units may be used as recirculating units only. All outdoor air requirements shall be met by a separate central air handling systems.

...

408.3.3 Noncentral recirculating air-handling systems, i.e. through the wall units, may be utilized for each patient room with one or more beds. Filtration for these units shall have a minimum weight arrestance value of 50 percent, based on ASHRAE 52.2-2007 or a minimum efficiency reporting value (MERV) of 1, based on ASHRAE 52.2-2007. The air ventilation system providing the minimum air changes of outdoor air shall comply with Table 4-C. These units may be used as recirculating units only. All outdoor air requirements shall be met by a separate central air handling system.

...

411.0 Kitchen and Dining Areas. [OSHPD 1, 2, 3 & 4]

411.1 The air from dining areas may be used to ventilate the food preparation areas only after it has passed through a filter with at least an 80 percent average efficiency based on ASHRAE 52.2-2007 or a minimum efficiency reporting value (MERV) of 13, based on ASHRAE 52.2-2007.

Exception: For skilled nursing facilities, intermediate care facilities and correctional treatment centers, the air from dining area may be used to ventilate food preparation areas only after it has passed through a filter with a 50 percent average efficiency based on ASHRAE 52.2-2007 or a minimum efficiency reporting value (MERV) of 10, based on ASHRAE 52.2-2007.

...

414.1.2 Exhaust shall discharge above roof level and through an accessible HEPA filter. The HEPA filter shall be located upstream of the exhaust fan and have a minimum efficiency of 99.97 percent based on the DOP method in accordance with Mil-Std. 282 or a minimum efficiency reporting value (MERV) of 17, based on ASHRAE 52.2-2007. Filter gage shall be installed across the filter. For maintenance of air balance relationship, see Section 407.3.2. The 25-foot (7620 mm) dimension required by Section 414.1 may be reduced when a 99.97 percent HEPA filter or a minimum efficiency reporting value (MERV) of 17, based on ASHRAE 52.2-2007 is used and the reduced dimension is specifically approved by the enforcing agency.

...

416.0 Alarms – Airborne Infection Isolation Rooms and Protective Environment Rooms. [OSHPD 1, 2, 3 & 4]

416.1 An alarm system which is based on static pressure control, volumetric control or directional flow ... is not being met during closed door conditions:

(2) When a minimum pressure differential of 0.00-1 inch (0.003 kPa) of water and a minimum inward (outward for protective environment rooms) air velocity of 100 feet per minute (0.508 m/s) is not being maintained at the air transfer opening required by Table 4-A.

TABLE 4-A

PRESSURE RELATIONSHIP AND VENTILATION REQUIREMENTS FOR GENERAL ACUTE CARE HOSPITALS, SKILLED NURSING FACILITIES, INTERMEDIATE CARE FACILITIES, CORRECTIONAL TREATMENT CENTERS, OUTPATIENT FACILITIES, AND LICENSED CLINICS

A	B	C	D		E	F
			CONDITIONED AIR NOT 100% O.S.A			
AREA DESIGNATION	AIR BALANCE RELATIONSHIP TO ADJACENT AREAS ^B	MINIMUM AIR CHANGES IF 100% O.S.A.	MINIMUM AIR CHANGES OF OUTDOOR AIR PER HOUR	MINIMUM TOTAL AIR CHANGES PER HOUR	ALL AIR EXHAUSTED DIRECTLY TO OUTDOORS	
<u>Operating room, hybrid operating room, cardiac catheterization lab and cystoscopy</u>	<u>P</u> ⁷	<u>12</u>	<u>5</u>	<u>20</u>	—	
<u>Electroconvulsive therapy procedure room</u>	<u>P</u>	<u>10</u>	<u>3</u>	<u>15</u>		
<u>Semi-restricted corridor</u>	<u>NR</u>	<u>2</u>	<u>2</u>	<u>4</u>	—	
<u>Patient holding preparation¹</u>	<u>NR</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Delivery room, cesarean operating room</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>20</u>	—	
<u>Newborn/well baby nursery</u>	<u>P NR</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Recovery/Ppost anesthesia care unit</u>	<u>NR</u>	<u>6</u>	<u>2</u>	<u>6</u>	<u>Yes</u>	
<u>Intensive care service spaces, acute respiratory - care service spaces, burn service spaces, coronary - care service spaces, pediatric intensive - care service spaces⁹</u>	<u>P</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Newborn intensive care</u>	<u>P</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Emergency department¹</u>						
<u>Waiting area</u>	<u>N</u>	<u>12</u>	<u>2</u>	<u>12</u>	<u>Yes²</u>	
<u>Operating room</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>20</u>	—	
<u>Orthopedic/cast room</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>20</u>	—	
<u>Treatment room</u>	<u>NR</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Trauma Room³</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>20</u>	—	
<u>Observation</u>	<u>NR</u>	<u>2</u>	<u>2</u>	<u>6</u>	—	
<u>Fast track room</u>	<u>NR</u>	<u>2</u>	<u>2</u>	<u>6</u>	—	
<u>Triage</u>	<u>N</u>	<u>12</u>	<u>2</u>	<u>12</u>	<u>Yes</u>	
<u>Pre-screening area</u>	<u>N</u>	<u>12</u>	<u>2</u>	<u>12</u>	<u>Yes²</u>	
<u>Treatment room, end, examination rooms, bloodborne infection isolation room</u>	<u>NR</u>	<u>6</u>	<u>2</u>	<u>6</u>	—	
<u>Radiological/Imaging:</u>						
<u>Angiography room</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>15</u>	—	
<u>Interventional imaging procedure room</u>	<u>P</u>	<u>12</u>	<u>5</u>	<u>15</u>	—	

A	B	C	D	E	F
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AREA DESIGNATION	AIR BALANCE RELATIONSHIP TO ADJACENT AREAS ⁸	MINIMUM AIR CHANGES IF 100% O.S.A.	CONDITIONED AIR NOT 100% O.S.A.		ALL AIR EXHAUSTED DIRECTLY TO OUTDOORS
			MINIMUM AIR CHANGES OF OUTDOOR AIR PER HOUR	MINIMUM TOTAL AIR CHANGES PER HOUR	
X-ray (diagnostic and treatment)	NR	6	2	6	—
CT Scan	NR	6	2	6	—
MRI room	NR	6	2	6	—
Fluoroscopy room	N	6	2	6	Yes
Dark room	N	12	2	12	Yes
Negative-pressure x-ray room	N	12	2	12	Yes
Ultra sound room	NR	6	2	6	—
Gamma camera	NR	6	2	6	—
Waiting area	N	12	2	12	Yes
Nuclear Medicine (Gamma, PET, SPECT)	N	6	2	6	Yes
Laboratory ...					
Nuclear medicine	N	6	2	6	Yes
Nuclear medicine hot lab	N	—	—	6	Yes

⁸ For operating rooms, cardiac catheterization labs, angiography rooms, cystoscopy rooms, delivery rooms, cesarean operating rooms, newborn intensive care, intensive care units, and nurseries provide approximately 15% excess supply air to the room or a sufficient quantity of excess supply air to maintain an appropriate positive air balance based on the room tightness and number of doors. For all rooms not listed in this footnote or not listed in Table 325-0-320.0 requiring either a positive or negative air balance, provide approximately 10% differential cfm between supply and return/exhaust airflow but not less than 25 cfm differential shall be provided regardless of room size. Room function, size, and tightness may be considered when determining the differential airflow required. Where continuous directional control is not required, variations between supply cfm and return or exhaust cfm shall be minimized.

**TABLE 4-B
FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONING SYSTEMS IN GENERAL ACUTE CARE HOSPITALS, ACUTE PSYCHIATRIC HOSPITALS, OUTPATIENT FACILITIES, AND LICENSED CLINICS¹**

AREA DESIGNATION	MINIMUM NUMBER OF FILTER BANKS	FILTER EFFICIENCY % FILTER BANK (MINIMUM EFFICIENCY REPORTING VALUE MERV) ⁵		
		NO. 1 ¹	NO. 2 ¹	NO. 3 ¹
		Orthopedic operating room, bone marrow transplant operating room, organ transplant operating room	3	30%
Protective environment rooms	3	(8)	(14)	(17)
Angiography; cardiac catheterization labs; operating rooms; interventional imaging procedure rooms; delivery rooms nurseries; patient care, treatment, cystoscopy, cesarean operating room, diagnostic, and related areas; airborne infection isolation rooms; areas providing direct patient service or clean supplies such as sterile and clean processes, and patient area corridors	2	30%	90%	—
Laboratories	2	(8)	(13)	—
Administrative, med staff support areas, bulk storage, soiled holding areas,		30%	—	—

food preparation areas, public cafeterias, and laundries	I	(8)	—	—
--	---	-----	---	---

- 1 Based on ASHRAE 52.2—2007.
- 2 Based on DOP test ... or based on ASHRAE 52.2—2007.
- 3 HEPA filters at air outlet ...
- 4 HEPA filter located in the supply duct ...
- 5 The numbers in parentheses ... based on ASHRAE 52.2—2007.

**TABLE 4-C
FILTER EFFICIENCIES FOR CENTRAL VENTILATION AND AIR-CONDITIONING SYSTEMS IN
SKILLED NURSING FACILITIES AND INTERMEDIATE FACILITIES AND CORRECTIONAL TREATMENT CENTERS¹**

AREA DESIGNATION	MINIMUM NUMBER OF FILTER BANKS	FILTER EFFICIENCY% FILTER BANK (MINIMUM EFFICIENCY REPORTING VALUE MERV) ³	
		NO. 1 ¹	NO. 2 ¹
		All areas for inpatient care, treatment and/or diagnosis, and those areas providing direct service or cleaning supplies	2
(8)	(13)		
Administrative, bulk storage, soiled holding, laundries and food prep areas	1	30% ²	---
		(8)	---

- 1 Based on ASHRAE 52.2—2007.
- 2 Filters are not ...
- 3 The numbers in parentheses ... ASHRAE 52.2—2007.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5
Reference: Health and Safety Code Section 129850

**CHAPTER 5
EXHAUST SYSTEMS**

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 504.1 is to be carried forward to Section to 504.1.1.

504.0 Environmental Air Ducts.

...
504.1-504.1.1 Backdraft Protection. Exhaust ducts shall terminate outside the building and shall be equipped with backdraft dampers or with motorized dampers that automatically shut where the systems or spaces served are not in use. **[OSHPD 1, 2 & 4] Exception:** Backdraft dampers are not required when the exhaust fan must operate continuously.

Exceptions: Where the exhaust duct does not discharge ...

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 508.1.1 is to be carried forward to Section 508.5.

508.0 Hoods.

...

508.1-4-508.5 Supports. Hoods shall be secured in place *[OSHPD 1, 2 & 4]* to resist the lateral loads given in the California Building Code, Title 24, Part 2 by noncombustible supports. The supports shall be capable of supporting the expected weight of the hood and plus 800 pounds (362.9 kg).

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 6 DUCT SYSTEMS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

602.0 Material.

602.1 General. Supply air, return air, and outside air for heating, cooling, or evaporative cooling duct systems constructed of metal shall comply with SMACNA HVAC Duct Construction Standards—Metal and Flexible or UL 181.

Not permitted for [OSHPD 1, 2, 3 & 4] Concealed building spaces or independent construction within buildings shall be permitted to be used as ducts or plenums.

...

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 602.3.1 is to be carried forward to Section 602.6.1.

602.6 Factory-Made Air Ducts. ...

~~602.3.1~~ **602.6.1 Flexible Ducts.** *[OSHPD 1, 2, 3 & 4]* In hospital building projects and all other health-care facilities, including clinics and correctional treatment centers, flexible ducts of not more than 10 feet (3048 mm) in length may be used to connect supply, return or exhaust-air terminal devices to rigid duct systems. Where constant volume, variable volume or mixing boxes are utilized, flexible duct of not more than 10 feet (3048 mm), may be used on the inlet side for alignment. An internal impervious liner shall be provided to isolate insulation material from conditioned air.

603.4 Factory-Made Air Ducts and Connectors. Factory-made air ducts and connectors shall be listed ...

603.4.1 Length Limitation. *[Not permitted for OSHPD 1, 2, 3, & 4].* Factory-made flexible air ducts and connectors shall be not more than 5 feet (1524 mm) in length and shall not be used in lieu of rigid elbows or fittings.

Due to the formatting of 2015 UMC the existing 2013 CMC OSHPD amendments of Section 604.0 are to be carried forward and located within the Section 604.0 as follows:

604.0 Insulation of Ducts.

604.1 General. Air ducts conveying air at temperatures exceeding 140°F (60°C) shall be insulated to maintain an insulation surface temperature of not more than 140°F (60°C). Factory-made air ducts and insulations intended for installation on the exterior of ducts shall be legibly printed with the name of the manufacturer, the thermal resistance (R) value at installed thickness, flame-spread index and smoke developed index of the composite material. Internal duct liners and insulation shall be installed in accordance with SMACNA HVAC

Duct Construction Standards—Metal and Flexible. **[OSHPD 1, 2, 3 & 4]** Cold air ducts shall be insulated wherever necessary or to prevent condensation.

...

604.1.2 Duct Coverings and Linings. Insulation applied to the surface of ducts, including duct coverings, linings, tapes, and adhesives, located in buildings shall have a flame-spread index not to exceed 25 and a smoke developed index not to exceed 50, where tested in accordance with ASTM E84 or UL 723. The specimen preparation and mounting procedures of ASTM E2231 shall be used. Air duct coverings and linings shall not flame, glow, smolder, or smoke where tested in accordance with ASTM C411 at the temperature to which they are exposed in service. In no case shall the test temperature be less than 250°F (121°C). Coverings shall not penetrate a fire-resistance-rated assembly.

604.2 [OSHPD 1, 2, 3 (surgical clinics) & 4] Thermal acoustical lining materials shall not be installed within ducts, terminal boxes, sound traps, and other in-duct systems serving areas such as operating, cesarean operating rooms, delivery rooms, post anesthesia care units, cystoscopy, cardiac catheterization labs, nurseries, intensive care units, newborn intensive care units, and airborne infection isolation rooms unless terminal filters with 90 percent average efficiency based on ASHRAE Standard 52.2 or minimum efficiency rating value (MERV) of 14 are installed downstream of the duct lining.

604.3 [OSHPD 1, 2 & 4] Thermal or acoustical lining materials shall not be installed within ducts which are downstream of the 99.97 percent high-efficiency particulate air (HEPA) filter or with minimum efficiency rating value (MERV) of 17 required in Section 408.2.1 for protective environment rooms.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 7 COMBUSTION AIR

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter for OSHPD 1, 2, 3 & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 8 CHIMNEYS AND VENTS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter for OSHPD 1, 2, 3 & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 9

INSTALLATION OF SPECIFIC APPLIANCES

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to renumbering in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 907.1 is to be carried forward to Section 911.1.

907.1 911.1 Prohibited Installations. Decorative appliances for installation in vented fireplaces shall not be installed in bathrooms or bedrooms unless the appliance is listed and the bedroom or bathroom has the required volume in accordance with Section 701.4. [NFPA 54:10.6.1]

[OSHPD 1, 2 & 4] A vented decorative appliance shall not be located in any hospital, skilled nursing facility, intermediate care facility, or correctional treatment center.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5
Reference: Health and Safety Code Section 129850

CHAPTER 10 BOILERS AND PRESSURE VESSELS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter for OSHPD 1, 2, 3 & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5
Reference: Health and Safety Code Section 129850

CHAPTER 11 REFRIGERATION

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to the formatting in the 2015 UMC the existing 2013 CMC OSHPD amendment of Table 1105.1 Permissible Refrigeration Systems is to be carried forward to Table 1104.1 Permissible Refrigeration Systems.

**TABLE 1105.1-1104.1
PERMISSIBLE REFRIGERATION SYSTEMS¹
[OSHPD 1, 2, 3 & 4]**

	OCCUPANCY GROUP ³	HIGH-PROBABILITY SYSTEM	LOW PROBABILITY SYSTEM	MACHINERY ROOM
	I-2	Group A1 only	Any	Any
[OSHPD 1, 2, 3 & 4]	I-2.1	Group A1 only	Any	Any
	I-3	None	Any	Any

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5
Reference: Health and Safety Code Section 129850

CHAPTER 12 HYDRONICS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4 with the following modifications:

Due to the formatting in the 2015 UMC the existing 2013 CMC OSHPD amendment of Section 1201.3.7 is to be carried forward to Section 1210.2.

1210.0 Materials.

1210.1 Piping, Tubing, and Fittings. ...

~~1201.3.7~~ **1210.2 Expansion and Contraction.** Pipe and tubing shall be so installed that it will not be subject to undue strains or stresses, and provisions shall be made for expansion, contraction, and structural settlement. *[OSHPD 1, 2 & 4] Pipe connections less than 2 1/2" to heating coils, cooling coils, humidifiers, and similar equipment shall have flexible connectors or three (3) 90-degree offsets in close proximity of the connection.*

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 13 FUEL GAS PIPING

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter for OSHPD 1, 2, 3 & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 14 PROCESS PIPING

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter for OSHPD 1, 2, 3 & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

CHAPTER 15 SOLAR ENERGY SYSTEMS

Entire Chapter not adopted by OSHPD.

CHAPTER 16 STATIONARY POWER PLANTS

Entire Chapter not adopted by OSHPD.

CHAPTER 17 REFERENCED STANDARDS

Adopt entire 2015 Uniform Mechanical Code (UMC) chapter and carry forward existing amendments of the 2013 California Mechanical Code (CMC) for OSHPD 1, 2, 3, & 4.

Notation

Authority: Health and Safety Code Sections 1226, 1275, 18928, 129790 and 129850; Government 11152.5

Reference: Health and Safety Code Section 129850

**FINAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
OFFICE OF THE STATE FIRE MARSHAL**

**REGARDING PROPOSED CHANGES TO
2016 CALIFORNIA MECHANICAL CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

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~~.

The Office of the State Fire Marshal (SFM) proposes to adopt the 2015 edition of the Uniform Mechanical Code (UMC) into the 2016 edition of the California Mechanical Code (CMC). SFM further proposes to:

- Repeal the adoption by reference of the 2012 Uniform Mechanical Code and incorporate and adopt by reference in its place the 2015 Uniform Mechanical Code for application and effectiveness in the 2016 California Mechanical Code.
 - Repeal certain amendments to the 2012 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 2015 Uniform Mechanical Code that address inadequacies of the 2015 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 2013 California Building Standards Code.
 - Codify non-substantive editorial and formatting amendments from the format based upon the 2012 Uniform Mechanical Code to the format of the 2015 Uniform Mechanical Code.
-

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

**CHAPTER 1
CALIFORNIA ADMINISTRATION
DIVISION I**

1.1.0 General.

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 ~~twelve~~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 ~~2012~~2015 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

1.1.2 Purpose. *The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, access to persons with disabilities, sanitation, adequate lighting and ventilation, and energy conservation; safety to life and property from fire and other hazards attributed to the built environment; and to provide safety to fire fighters and emergency responders during emergency operations.*

1.1.3 Scope. *The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout the State of California.*

1.1.3.1 Nonstate-Regulated Buildings, Structures, and Applications. *Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.*

1.1.3.2 State-Regulated Buildings, Structures, and Applications. *The model code, state amendments to the model code, and/or state amendments where there are no relevant model code provisions shall apply to the following buildings, structures, and applications regulated by state agencies as specified in Section 1.2 through 1.14, except where modified by local ordinance pursuant to Section 1.1.8. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the state legislature.*

Note: See Preface to distinguish the model code provisions from the California provisions.

1. *State-owned buildings, including buildings constructed by the Trustees of the California State University, and to the extent permitted by California laws, buildings designed and constructed by the Regents of the University of California, and regulated by the Building Standards Commission. See Section 1.2 for additional scope provisions.*

2. *Local detention facilities regulated by the Board of State and Community Corrections ~~Corrections Standards Authority~~. See Section 1.3 for additional scope provisions.*

3. *Barbering, cosmetology or electrolysis establishments, acupuncture offices, pharmacies, veterinary facilities, and structural pest control locations regulated by the Department of Consumer Affairs. See Section 1.4 for additional scope provisions.*

4. *~~Energy efficiency standards regulated by the~~ Section 1.5 reserved for the California Energy Commission. See ~~Section 1.5 for additional scope provisions.~~*

5. *Dairies and places of meat inspection regulated by the Department of Food and Agriculture. See Section 1.6 for additional scope provisions.*
6. *Organized camps, laboratory animal quarters, public swimming pools, radiation protection, commissaries serving mobile food preparation vehicles and wild animal quarantine facilities regulated by the Department of Public Health. See Section 1.7 for additional scope provisions.*
7. *Hotels, motels, lodging houses, ~~apartment houses~~ apartments, dwellings, dormitories, condominiums, shelters for homeless persons, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations with or without common toilets or cooking facilities. See Section 1.8.2.1.1 for additional scope provisions.*
8. *Accommodations for persons with disabilities in buildings containing newly constructed covered multifamily dwellings, new common use spaces serving existing covered multifamily dwellings, additions to existing buildings where the addition alone meets the definition of "COVERED MULTIFAMILY DWELLINGS," and new common-use spaces areas serving new covered multifamily dwellings which are regulated by the Department of Housing and Community Development. See Section 1.8.2.1.2 for additional scope provisions.*
9. *Permanent buildings and permanent accessory buildings or structures constructed within mobilehome parks and special occupancy parks regulated by the Department of Housing and Community Development. See Section 1.8.2.1.3 for additional scope provisions.*
10. *Reserved for the Division of the State Architect – Access Compliance.*
11. *Public elementary and secondary schools, community college buildings and state-owned or state leased essential service buildings regulated by the Division of the State Architect. See Section 1.9.2 for additional scope provisions.*
12. *Reserved for the State Historical Building Safety Board with the Division of the State Architect. See Section 1.9.2 for additional scope provisions.*
13. *General acute care hospitals, acute psychiatric hospitals, skilled nursing and/or intermediate care facilities, clinics licensed by the Department of Public Health and correctional treatment centers regulated by the Office of Statewide Health Planning and Development. See Section 1.10 for additional scope provisions.*
14. *Applications regulated by the Office of State Fire Marshal include but are not limited to the following in accordance with Section 1.11:*
 1. *Buildings or structures used or intended for use as an:*
 - 1.1. *Asylum, jail, prison.*
 - 1.2. *Mental hospital, hospital, home for the elderly, children's nursery, children's home or institution, school or any similar occupancy of any capacity.*
 - 1.3. *Theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*
 - 1.4. *Small family day care homes, large family day-care homes, residential facilities and residential facilities for the elderly, residential care facilities.*
 - 1.5. *State institutions or other state-owned or state-occupied buildings.*
 - 1.6. *High rise structures.*
 - 1.7. *Motion picture production studios.*
 - 1.8. *Organized camps.*
 - 1.9. *Residential structures.*
 2. *Tents, awnings or other fabric enclosures used in connection with any occupancy.*
 3. *Fire alarm devices, equipment and systems in connection with any occupancy.*
 4. *Hazardous materials, flammable and combustible liquids.*
 5. *Public school automatic fire detection, alarm and sprinkler systems.*
 6. *Wildland-urban interface fire areas.*

15. Public libraries constructed and renovated using funds from the California Library Construction and Renovation Bond Act of 1988 and regulated by the State Librarian. See Section 1.12 for additional scope provisions.

16. ~~Section 1.13 reserved for Graywater systems regulated by the Department of Water Resources. See Section 1.13 for additional scope provisions.~~

17. For applications listed in Section 1.9.1 regulated by the Division of the State Architect – Access Compliance, outdoor environments and uses shall be classified according to accessibility uses described in Chapter 11A, 11B and 11C.

18. Marine Oil Terminals regulated by the California State Lands Commission. See Section 1.14 for additional scope provisions.

1.1.4 Appendices. Provisions contained in the appendices of this code shall not apply unless specifically adopted by a state agency or adopted by a local enforcing agency in compliance with Health and Safety Code Section 18901 et. seq. for Building Standards Law, Health and Safety Code Section 17950 for State Housing Law and Health and Safety Code Section 13869.7 for Fire Protection Districts. See Section 1.1.8 of this code.

1.1.5 Referenced Codes. The codes, standards and publications adopted and set forth in this code, including other codes, standards and publications referred to therein are, by title and date of publication, hereby adopted as standard reference documents of this code. When this code does not specifically cover any subject related to building design and construction, recognized architectural or engineering practices shall be employed. The National Fire Codes, standards, and the Fire Protection Handbook of the National Fire Protection Association are permitted to be used as authoritative guides in determining recognized fire prevention engineering practices.

1.1.6 Nonbuilding Standards, Orders and Regulations. Requirements contained in the Uniform Mechanical Code or in any other referenced standard, code or document, which are not building standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code. For nonbuilding standards, orders, and regulations, see other titles of the California Code of Regulations.

1.1.7 Order of Precedence and Use.

1.1.7.1 Differences. In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern.

1.1.7.2 Specific Provisions. Where a specific provision varies from a general provision, the specific provision shall apply.

1.1.7.3 Conflicts. When the requirements of this code conflict with the requirements of any other part of the California Building Standards Code, Title 24, the most restrictive requirements shall prevail.

Exception: Detached one-and two-family dwellings, efficiency dwelling units, lodging houses, live/work units, townhouses not more than three stories above grade plane with a separate means of egress, and their accessory structures, shall not be required to comply with the California Residential Code if constructed in accordance with the California Building Code.

1.1.8 City, County, or City and County Amendments, Additions or Deletions. The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 1.1.8.1. The effective date of amendments, additions, or deletions to this code by a city, county, or city and county filed pursuant to Section 1.1.8.1 shall be the date filed. However, in no case shall the

amendments, additions, or deletions to this code be effective any sooner than the effective date of this code.

Local modifications shall comply with Health and Safety Code Section 18941.5 for Building Standards Law, Health and Safety Code Section 17958 for State Housing Law or Health and Safety Code Section 13869.7 for Fire Protection Districts.

1.1.8.1 Findings and Filings.

(1) The city, county, or city and county shall make express findings for each amendment, addition, or deletion based upon climatic, topographical, or geological conditions.

Exception: Hazardous building ordinances and programs mitigating unreinforced masonry buildings.

(2) The city, county, or city and county shall file the amendments, additions, or deletions expressly marked and identified as to the applicable findings. Cities, counties, cities and counties, and fire departments shall file the amendments, additions, or deletions, and the findings with the California Building Standards Commission at 2525 Natomas Park Drive, Suite 130, Sacramento, CA 95833.

(3) Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development, Division of Codes and Standards, P.O. Box 1407, Sacramento, CA 95812-1407 or ~~4800 3rd Street, Room 260, Sacramento, CA 95811~~ 2020 West El Camino Avenue, Suite 250, Sacramento, CA 95833-1829.

1.1.8.2 Locally adopted energy standards – California Energy Code, Part 6

In addition to the provisions of Section 1.1.8.1 of this Part, the provisions of this section apply to cities, counties, and city and county amending adopted energy standards affecting buildings and structures subject to the California Energy Code, Part 6.

Applicable provisions of Public Resources Code Section 25402.1 and applicable provisions of Chapter 10 of the California Administrative Code, Part 1 apply to local amendment of energy standards adopted by the California Energy Commission.

1.1.9 Effective Date of This Code. Only those standards approved by the California Building Standards Commission that are effective at the time an application for building permit is submitted shall apply to the plans and specifications for, and to the construction performed under, that permit. For the effective dates of the provisions contained in this code, see the History Note page of this code.

1.1.10 Availability of Codes. At least one complete copy each of Titles 8, 19, 20, 24, and 25 with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. Each state department concerned and each city, county, or city and county shall have an up-to-date copy of the code available for public inspection, See Health and Safety Code Sections 18942(d)(1) and (2).

1.1.11 Format. This part fundamentally adopts the Uniform Mechanical Code by reference on a chapter-by-chapter basis.

When a specific chapter of the Uniform Mechanical Code is not printed in the code and is marked "Reserved" such chapter of the Uniform Mechanical Code is not adopted as a portion of this code. When a specific chapter of the Uniform Mechanical Code is marked "Not adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.

Note: Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but they are not to be considered regulatory.

1.1.12 Validity. *If any chapter, section, subsection, sentence, clause, or phrase of this code is for any reason held to be unconstitutional, contrary to statute, exceeding the authority of the state as stipulated by statutes or otherwise inoperative, such decision shall not affect the validity of the remaining portion of this code.*

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

[1.1. The SFM is proposing to maintain the adoption of those existing California provisions contained Sections 1.11.0 through 1.11.10 without modification.]

1.11.0 Office of the State Fire Marshal.

1.11.1 SFM– Office of the State Fire Marshal. *Specific scope of application of the agency responsible for enforcement, the enforcement agency and the specific authority to adopt and enforce such provisions of this code, unless otherwise stated.*

Application:

Institutional, Educational, or any Similar Occupancy. *Any building or structure used or intended for use as an asylum, jail, mental hospital, hospital, sanitarium, home for the aged, children's nursery, children's home, school, or any similar occupancy of any capacity.*

Authority Cited – Health and Safety Code Section 13143.

Reference – Health and Safety Code Section 13143.

Assembly or Similar Place of Assemblage. *Any theater, dancehall, skating rink, auditorium, assembly hall, meeting hall, nightclub, fair building or similar place of assemblage where 50 or more persons may gather together in a building, room or structure for the purpose of amusement, entertainment, instruction, deliberation, worship, drinking or dining, awaiting transportation, or education.*

Authority Cited – Health and Safety Code Section 13143.

Reference – Health and Safety Code Section 13143.

Small Family Day Care Homes.

Authority Cited – Health and Safety Code Sections 1597.45, 1597.54, 13143, and 17921.

Reference – Health and Safety Code Section 13143.

Large Family Day Care Homes.

Authority Cited - Health and Safety Code Sections 1597.46, 1597.54, and 17921.

Reference - Health and Safety Code Section 13143.

Residential Facilities and Residential Facilities for the Elderly.

Authority Cited - Health and Safety Code Section 13133.
Reference - Health and Safety Code Section 13143.

Any State Institution, Other State-Owned or State-Occupied Building.

Authority Cited – Health and Safety Code Section 13108.
Reference – Health and Safety Code Section 13143.

High-Rise Structures.

Authority Cited – Health and Safety Code Section 13211.
Reference – Health and Safety Code Section 13143.

Motion Picture Production Studios.

Authority cited – Health and Safety Code Section 13143.1.
Reference – Health and Safety Code Section 13143.

Organized Camps.

Authority Cited – Health and Safety Code Section 18897.3.
Reference – Health and Safety Code Section 13143.

Residential. All hotels, motels, lodging houses, apartment houses, and dwellings, including congregate residences and buildings and structures accessory thereto. Multiple-story structures existing on January 1, 1975, let for human habitation, including and limited to, hotels, motels and apartment houses, less than 75 feet (22 860 mm) above the lowest floor level having building access, wherein rooms used for sleeping are let above the ground floor.

Authority Cited – Health and Safety Code Sections 13143.2 and 17921.
Reference – Health and Safety Code Section 13143.

Residential Care Facilities. Certified family care homes, out-of-home placement facilities, halfway houses, drug and/or alcohol rehabilitation facilities and any building or structure used or intended for use as a home or institution for the housing of any person of any age when such person is referred to or placed within such home or institution for protective social care and supervision services by any governmental agency.

Authority Cited – Health and Safety Code Section 13143.6.
Reference – Health and Safety Code Section 13143.

Tents, Awnings, or other Fabric Enclosures Used in Connection with any Occupancy.

Authority Cited – Health and Safety Code Section 13116.
Reference – Health and Safety Code Section 13143.

Fire Alarm Devices, Equipment, and Systems in Connection with any Occupancy.

Authority Cited – Health and Safety Code Section 13114.
Reference – Health and Safety Code Section 13143.

Hazardous Materials.

Authority Cited – Health and Safety Code Section 13143.9.

Reference – Health and Safety Code Section 13143.

Flammable and Combustible Liquids.

Authority Cited – Health and Safety Code Section 13143.6.

Reference – Health and Safety Code Section 13143.

Public School Automatic Fire Detection, Alarm, and Sprinkler Systems.

Authority Cited – Health and Safety Code Section 13143 and California Education Code Article 7.5, Sections 17074.50, 17074.52, and 17074.54.

References – Government Code Section 11152.5, Health and Safety Code Section 13143 and California Education Code Chapter 12.5, Leroy F. Greene School Facilities Act of 1998, Article 1.

Wildland-Urban Interface Fire Area.

Authority Cited – Health and Safety Code Sections 13143, 13108.5(a), 18949.2(b), (c) and Government Code Section 51189.

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

1.11.2 Duties and Powers of the Enforcing Agency.

1.11.2.1 Enforcement.

1.11.2.1.1 The responsibility for enforcement of building standards adopted by the State Fire Marshal and published in the California Building Standards Code relating to fire and panic safety and other regulations of the State Fire Marshal shall except as provided in Section 1.11.2.1.2 be as follows:

(1) The city, county, or city and county with jurisdiction in the area affected by the standard or regulation shall delegate the enforcement of the building standards relating to fire and panic safety and other regulations of the State Fire Marshal as they relate to Group R-3 occupancies, as described in Section 310.1 of Part 2 of the California Building Standards Code, to either of the following:

- 1.1. The chief of the fire authority of the city, county, or city and county, or an authorized representative.
- 1.2. The chief building official of the city, county, or city and county, or an authorized representative.

(2) The chief of any city or county fire department or of any fire protection district, and authorized representatives, shall enforce within the jurisdiction the building standards and other regulations of the State Fire Marshal, except those described in Item 1 or 4.

(3) The State Fire Marshal shall have authority to enforce the building standards and other regulations of the State Fire Marshal in areas outside of corporate cities and districts providing fire protection services.

(4) The State Fire Marshal shall have authority to enforce the building standards and other regulations of the State Fire Marshal in corporate cities and districts providing fire protection services on request of the chief fire official or the governing body.

(5) Any fee charged pursuant to the enforcement authority of this section shall not exceed the estimated reasonable cost of providing the service for which the fee is charged pursuant to Section 66014 of the Government Code.

1.11.2.1.2 Pursuant to Health and Safety Code Section 13108, and except as otherwise provided in this section, building standards adopted by the State Fire Marshal published in the California Building

Standards Code relating to fire and panic safety shall be enforced by the State Fire Marshal in all state-owned buildings, state-occupied buildings, and state institutions throughout the state. Upon the written request of the chief fire official of any city, county or fire protection district, the State Fire Marshal may authorize such chief fire official and his or her authorized representatives, in their geographical area of responsibility, to make fire prevention inspections of state-owned or state-occupied buildings, other than state institutions, for the purpose of enforcing the regulations relating to fire and panic safety adopted by the State Fire Marshal pursuant to this section and building standards relating to fire and panic safety published in the California Building Standards Code. Authorization from the State Fire Marshal shall be limited to those fire departments or fire districts which maintain a fire prevention bureau staffed by paid personnel.

Pursuant to Health and Safety Code Section 13108, any requirement or order made by any chief fire official who is authorized by the State Fire Marshal to make fire prevention inspections of state owned or state-occupied buildings, other than state institutions, may be appealed to the State Fire Marshal. The State Fire Marshal shall, upon receiving an appeal and subject to the provisions of Chapter 5 (commencing with Section 18945) of Part 2.5 of Division 13 of the Health and Safety Code, determine if the requirement or order made is reasonably consistent with the fire and panic safety regulations adopted by the State Fire Marshal and building standards relating to fire and panic safety published in the California Building Code.

Any person may request a code interpretation from the State Fire Marshal relative to the intent of any regulation or provision adopted by the State Fire Marshal. When the request relates to a specific project, occupancy or building, the State Fire Marshal shall review the issue with the appropriate local enforcing agency prior to rendering such code interpretation.

1.11.2.1.3 *Pursuant to Health and Safety Code Section 13112, any person who violates any order, rule or regulation of the State Fire Marshal is guilty of a misdemeanor punishable by a fine of not less than \$100.00 or more than \$500.00, or by imprisonment for not less than six months, or by both. A person is guilty of a separate offense each day during which he or she commits, continues or permits a violation of any provision of, or any order, rule or regulation of, the State Fire Marshal as contained in this code. Any inspection authority who, in the exercise of his or her authority as a deputy State Fire Marshal, causes any legal complaints to be filed or any arrest to be made shall notify the State Fire Marshal immediately following such action.*

1.11.2.2 Right of Entry. *The fire chief of any city, county, or fire protection district, or such person's authorized representative, may enter any state institution or any other state-owned or state-occupied building for the purpose of preparing a fire suppression preplanning program or for the purpose of investigating any fire in a state-occupied building.*

The State Fire Marshal, his or her deputies or salaried assistants, the chief of any city or county fire department or fire protection district and his or her authorized representatives may enter any building or premises not used for dwelling purposes at any reasonable hour for the purpose of enforcing this chapter. The owner, lessee, manager or operator of any such building or premises shall permit the State Fire Marshal, his or her deputies or salaried assistants and the chief of any city or county fire department or fire protection district and his or her authorized representatives to enter and inspect them at the time and for the purpose stated in this section.

1.11.2.3 More Restrictive Fire and Panic Safety Building Standards.

1.11.2.3.1 *Any fire protection district organized pursuant to Health and Safety Code Part 2.7 (commencing with Section 13800) of Division 12 may adopt building standards relating to fire and panic safety that are more stringent than those building standards adopted by the State Fire Marshal and contained in the California Building Standards Code. For these purposes, the district board shall be*

deemed a legislative body and the district shall be deemed a local agency. Any changes or modifications that are more stringent than the requirements published in the California Building Standards Code relating to fire and panic safety shall be subject to Section 1.1.8.1.

1.11.2.3.2 Any fire protection district that proposes to adopt an ordinance pursuant to this section shall, not less than 30 days prior to noticing a proposed ordinance for public hearing, provide a copy of that ordinance, together with the adopted findings made pursuant to Section 1.11.2.3.1, to the city, county, or city and county where the ordinance will apply. The city, county, or city and county may provide the district with written comments, which shall become part of the fire protection district's public hearing record.

1.11.2.3.3 The fire protection district shall transmit the adopted ordinance to the city, county, or city and county where the ordinance will apply. The legislative body of the city, county, or city and county may ratify, modify or deny an adopted ordinance and transmit its determination to the district within 15 days of the determination. Any modification or denial of an adopted ordinance shall include a written statement describing the reasons for any modifications or denial. No ordinance adopted by the district shall be effective until ratification by the city, county, or city and county where the ordinance will apply. Upon ratification of an adopted ordinance, the city, county, or city and county shall file a copy of the findings of the district, and any findings of the city, county, or city and county, together with the adopted ordinance expressly marked and identified to which each finding refers, in accordance with Section 1.1.8.1, Item 3.

1.11.2.4 Request for Alternate Means of Protection. Requests for approval to use an alternative material, assembly or materials, equipment, method of construction, method of installation of equipment or means of protection shall be made in writing to the enforcing agency by the owner or the owner's authorized representative and shall be accompanied by a full statement of the conditions. Sufficient evidence or proof shall be submitted to substantiate any claim that may be made regarding its conformance. The enforcing agency may require tests and the submission of a test report from an approved testing organization as set forth in Title 19, California Code of Regulation, to substantiate the equivalency of the proposed alternative means of protection.

When a request for alternate means of protection involves hazardous materials, the authority having jurisdiction may consider implementation of the findings and recommendations identified in a Risk Management Plan (RMP) developed in accordance with Title 19, Division 2, Chapter 4.5, Article 3.

Approval of a request for use of an alternative material, assembly of materials, equipment, method of construction, method of installation of equipment, or means of protection made pursuant to these provisions shall be limited to the particular case covered by request and shall not be construed as establishing any precedent for any future request.

1.11.2.5 Appeals. When a request for an alternate means of protection has been denied by the enforcing agency, the applicant may file a written appeal to the State Fire Marshal for consideration of the applicant's proposal. In considering such appeal, the State Fire Marshal may seek the advice of the State Board of Fire Services. The State Fire Marshal shall, after considering all of the facts presented, including any recommendations of the State Board of Fire Services, determine if the proposal is for the purposes intended, at least equivalent to that specified in these regulations in quality, strength, effectiveness, fire resistance, durability and safety, and shall transmit such findings and any recommendations to the applicant and to the enforcing agency.

1.11.3 Construction Documents.

1.11.3.1 Public Schools. Plans and specifications for the construction, alteration, or addition to any building owned, leased, or rented by any public school district shall be submitted to the Division of the State Architect.

1.11.3.2 Movable Walls and Partitions. Plans or diagrams shall be submitted to the enforcing agency for approval before the installation of, or rearrangement of, any movable wall or partition in any occupancy. Approval shall be granted only if there is no increase in the fire hazard.

1.11.3.3 New Construction High-Rise Buildings.

(1) Complete plans or specifications, or both, shall be prepared covering all work required to comply with new construction high-rise buildings. Such plans and specifications shall be submitted to the enforcing agency having jurisdiction.

(2) All plans and specifications shall be prepared under the responsible charge of an architect or a civil or structural engineer authorized by law to develop construction plans and specifications, or by both such architect and engineer. Plans and specifications shall be prepared by an engineer duly qualified in that branch of engineering necessary to perform such services. Administration of the work of construction shall be under the charge of the responsible architect or engineer except that where plans and specifications involve alterations or repairs, such work of construction may be administered by an engineer duly qualified to perform such services and holding a valid certificate under Chapter 7 (commencing with Section 65700) of Division 3 of the Business and Professions Code for performance of services in that branch of engineering in which said plans, specifications and estimates and work of construction are applicable.

This section shall not be construed as preventing the design of fire-extinguishing systems by persons holding a C-16 license issued pursuant to Division 3, Chapter 9, Business and Professions Code. In such instances, however, the responsibility charge of this section shall prevail.

1.11.3.4 Existing High-Rise Buildings.

(1) Complete plans or specifications, or both, shall be prepared covering all work required by Section 3412 for existing high-rise buildings. Such plans or specifications shall be submitted to the enforcing agency having jurisdiction.

(2) When new construction is required to conform with the provisions of these regulations, complete plans or specifications, or both, shall be prepared in accordance with the provisions of this subsection. As used in this section, "new construction" is not intended to include repairs, replacements or minor alterations which do not disrupt or appreciably add to or affect the structural aspects of the building.

1.11.3.5 Retention of Plans. Refer to Building Standards Law, Health and Safety Code Sections 19850 and 19851 for permanent retention of plans.

1.11.4 Fees.

1.11.4.1 Other Fees. Pursuant to Health and Safety Code Section 13146.2, a city, county, or district which inspects a hotel, motel, lodging house, or apartment house may charge and collect a fee for the inspection from the owner of the structure in an amount, as determined by the city, county or district, sufficient to pay its costs of that inspection.

1.11.4.2 Large Family Day Care. Pursuant to Health and Safety Code Section 1597.46, Large Family Day Care Homes, the local government shall process any required permit as economically as possible, and fees charged for review shall not exceed the costs of the review and permit process.

1.11.4.3 High-Rise. Pursuant to Health and Safety Code Section 13217, High-rise Structure Inspection: Fees and costs, a local agency which inspects a high-rise structure pursuant to Health and Safety Code Section 13217 may charge and collect a fee for the inspection from the owner of the high-rise structure in an amount, as determined by the local agency, sufficient to pay its costs of that inspection.

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 of 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.

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 preclearance inspection by the State Department of Social Services, whichever is later.

Pursuant to Health and Safety Code Section 13235, a preinspection fee of not more than \$50.00 may be charged for 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.

1.11.4.6 Requests of the Office of the State Fire Marshal. Whenever a local authority having jurisdiction requests that the State Fire Marshal perform plan review and/or inspection services related to a building permit, the applicable fees for such shall be payable to the Office of the State Fire Marshal.

1.11.5 Inspections. Work performed subject to the provisions of this code shall comply with the inspection requirements of Title 24, Part 2, California Building Standards Code, Sections 109.1, 109.3, 109.3.4, 109.3.5, 109.3.6, 109.3.8, 109.3.9, 109.3.10, 109.5, and 109.6 as adopted by the Office of the State Fire Marshal.

1.11.5.1 Existing Group I-1 or R Occupancies. Licensed 24-hour care in a Group I-1 or R occupancy in existence and originally classified under previously adopted state codes shall be reinspected under the appropriate previous code, provided there is no change in the use or character which would place the facility in a different occupancy group.

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.

1.11.7 Temporary Structures and Uses. See Title 24, Part 2, California Building Code, Section 107.

1.11.8 Service Utilities. See Title 24, Part 2, California Building Code, Section 112.

1.11.9 Stop Work Order. See Title 24, Part 2, California Building Code, Section 115.

1.11.10 Unsafe Buildings, Structures, and Equipment. See Title 24, Part 2, California Building Code, Section 116.

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

[1.2. The SFM proposes to not adopt UMC Chapter 1. (UMC Chapter 1 Administrative provisions - Sections 101 through 117 relocated to Division II of Chapter 1.)]

DIVISION II

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

[2. The SFM proposes to adopt Chapter 2 with the following existing amendments and California regulations.]

**CHAPTER 2
DEFINITIONS**

203.0 A

Assembly Building. A building or a portion of a building used for the gathering together of 50 or more persons for such purposes as deliberation, education, instruction, worship, entertainment, amusement, drinking, dining, or awaiting transportation. *[SFM] Refer to the California Building Code, Title 24, Part 2 for use and occupancy classification.*

Authority Having Jurisdiction. The organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, installations, or procedures. The Authority Having Jurisdiction shall be a federal, state, local, or other regional department or an individual such as a plumbing official, mechanical official, labor department official, health department official, building official, or others having statutory authority. In the absence of a statutory authority, the Authority Having Jurisdiction may be some other responsible party. This definition shall include the Authority Having Jurisdiction's duly authorized representative. *[SFM] "Authority Having Jurisdiction" shall mean "Enforcing Agency" as defined in Section 207.0 of this code.*

204.0 B

Building Code. The building code that is adopted by this jurisdiction. [SFM] "Building Code" shall mean the California Building Code, Title 24, Part 2.

Building Official. See **Authority Having Jurisdiction.** For applications listed in Section 111 regulated by the Office of the State Fire Marshal "Building Official" is the officer charged with the administration and enforcement of this code, or a regular deputy. See "Enforcing Agency". For the State of California, "Building Official" shall be the "Enforcing Agency" as specified in Section 111.

207.0 E

Enforcing Agency. [SFM] is the designated department or agency as specified in statutes to enforce the specific building standards promulgated or adopted by the specified state agency.

208.0 F

FIRE CODE – Whenever the term "Fire Code" is used in this code, it shall mean the California Fire Code, Title 24, Part 9.

209.0 -G-

214.0 L

Listed and Listing. [SFM] "Listed" and "Listing" are terms referring to equipment or materials included in a list published by an approved testing laboratory, inspection agency or other organization concerned with product evaluation that maintains periodic inspection of current productions of listed equipment or materials and which listing states that the material or equipment complies with approved nationally recognized codes, standards or tests and has been tested or evaluated and found suitable for use in a specific manner. These terms shall also mean equipment or materials accepted by the State Fire Marshal as conforming to the provisions of these regulations and which are included in a list published by the State Fire Marshal.

215.0-M

Machinery Room [SFM]. Machinery Room is a room in which a refrigeration system is permanently installed and operated but not including evaporators located in a cold storage room, refrigerator box, air-cooled space or other enclosed space. Closets solely contained within, and opening only into, a room shall not be considered machinery rooms, but shall be considered a part of the machinery rooms in which they are contained or open into. It is not the intent of this definition to cause the space in which unit or self-contained systems of Group I refrigerants are locate to be classified as machinery rooms.

217.0 O

Occupancy Classification. Classifications are defined in the California Building Code. [SFM] Whenever the term "Building Code" is used in this code, it shall mean the California Building Code, Title 24, Part 2.

223.0-U

UMC. The most recent edition of the Uniform Mechanical Code, published by the International Association of Plumbing and Mechanical Officials.

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

[3. The SFM proposes to adopt Chapter 3 with the following existing amendments and California regulations.]

CHAPTER 3 GENERAL REQUIREMENTS

303.7 Liquefied Petroleum Gas Facilities. Containers, container valves regulating equipment, and appurtenances for the storage and supply of liquefied petroleum gas shall be installed in accordance with NFPA 58 and the California Fire Code.

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

[4. The SFM proposes to adopt Chapter 4 with the following existing amendments and California regulations as modified.]

CHAPTER 4 VENTILATION AIR SUPPLY

401.1 Applicability. This chapter contains requirements for ventilation air supply, exhaust, and makeup-air requirements for occupiable spaces within a building. *[SFM] Air filters shall comply with all requirements of Part 12, Title 24, Chapter 12-71, SFM Standard 12-71-1.*

403.9403.10 Exhaust Ventilation for Enclosed Parking Garages. *Exhaust airflow for enclosed parking garages shall be provided in accordance with the requirements in Table 403.7 and this Section. Exhaust makeup air shall be permitted to be any combination of outdoor air or transfer air. Exhaust systems shall operate continuously.*

Exceptions:

1. *Mechanical ventilation systems used for enclosed parking garages shall be permitted to operate intermittently where the system is arranged to operate automatically upon detection of vehicle operation or the presence of occupants by approved automatic detection devices.*

2. *Automatic carbon monoxide sensing devices may be employed to modulate the ventilation system to not exceed a maximum average concentration of carbon monoxide of 50 parts per million during any eight-hour period, with a maximum concentration not greater than 200 parts per million for a period not*

exceeding one hour. Automatic carbon monoxide sensing devices employed to modulate parking garage ventilation systems shall be approved pursuant to the requirements in Section 302.1.

403.9.1.403.10.1 Alternative Exhaust Ventilation for Enclosed Parking Garages.

403.9.1.403.10.1.1 Minimum Exhaust Rate. In lieu of the exhaust rates of Table 403.7, ventilation systems shall be capable of providing 14,000 cfm (6608 L/s) of exhaust air for each operating vehicle. Number of operating vehicles shall be determined based on 2.5 percent of all parking spaces (and not less than one vehicle).

403.9.1.403.10.1.2 Exhaust Inlet Distribution. To ensure proper exhaust of contaminated air and fumes from parking garages, exhaust systems utilizing multiple exhaust inlets shall be designed so that exhaust inlets are distributed in such a manner that no portion of the parking garage is more than 50 feet (15 240 mm) from an exhaust inlet. Such exhaust inlets shall be installed so that the highest elevation of the exhaust inlet is no greater than 12 inches (305 mm) below the lowest ceiling level.

Exception: Garage exhaust systems designed without distributed exhaust inlets may have their exhaust inlets designed based on the principles of engineering and mechanics and shall provide the minimum required exhaust rate in Table 403.7.

403.9.1.403.10.1.3 Exhaust system operation. Exhaust systems shall operate continuously unless one of the exceptions to continuous operation of Section 403.9.403.10 is utilized.

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

[5. The SFM proposes to adopt Chapter 5 with the following new and existing amendments and California regulations.]

**CHAPTER 5
EXHAUST SYSTEMS**

509.2.3 Grease Filters. Grease filters shall be listed and constructed of steel or other non-combustible material, and shall be of rigid construction that will not distort or crush under normal operation, handling, cleaning, or replacement. [SFM] For applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, grease filters shall be Class I when tested in accordance with the test method in Title 24, Part 12, Chapter 12-71, SFM Standard 12-71-1.

511.1.6 Standard. Wiring and electrical equipment shall comply with NFPA-70-California Electrical Code.

512.2.5 Standard. Electrical equipment shall be installed in accordance with NFPA-70-California Electrical Code, with due regard to the effects of heat, vapor, and grease on the equipment.

513.2.2 Standard. Automatic fire extinguishing systems shall comply with UL 300 or other equivalent standards and shall be installed in accordance with the requirements of the listing. In existing dry or wet

chemical systems not in accordance with UL 300, the fire extinguishing system shall be made in accordance with this section where one of the following occurs:

- (1) The cooking medium is changed from animal oil and fat to vegetable oil.
- (2) The positioning of the cooking equipment is changed.
- (3) Cooking equipment is replaced.
- (4) The equipment is no longer supported by the manufacturer. [NFPA 96:10.2.3, 10.2.3.1]

Commercial cooking equipment that produce grease laden vapors shall be provided with a Type I Hood, in accordance with this Code, and an automatic fire extinguishing system that is listed and labeled for its intended use as follows:

- (1) Wet chemical extinguishing system (NFPA 17A, Standard for Wet Chemical Extinguishing Systems), complying with UL 300, Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Equipment. All existing dry chemical and wet chemical extinguishing systems shall comply with UL 300, Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Equipment.
- (2) Carbon dioxide extinguishing systems (NFPA 12, Standard on Carbon Dioxide Extinguishing Systems).
- (3) Automatic fire sprinkler systems (NFPA 13, Standard for the Installation of Sprinkler Systems).

All existing dry chemical and wet chemical extinguishing systems shall comply with UL 300, no later than the second required servicing of the system following the effective date of this section.

Exceptions:

- (1) Automatic fire-extinguishing equipment provided as part of listed recirculating systems in accordance with UL 710B. [NFPA 96:10.2.6]
- (2) Public schools kitchens, without deep-fat fryers, shall be upgraded to a UL 300, Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Equipment, compliant system during state funded modernization projects that are under the jurisdiction of the Division of the State Architect.

513.2.3 Installation. Automatic fire extinguishing systems shall be installed in accordance with the terms of their listing, the manufacturer's installation instructions, and the following standards where applicable:

- (1) NFPA 12
- (2) NFPA 13
- (3) NFPA 17
- (4) NFPA 17A

513.3.2 Dry or Wet Chemical Systems. Simultaneous operation shall be required where a dry or wet chemical system is used to protect common exhaust ductwork by one of the methods specified in NFPA 17, Standard for Dry Chemical Extinguishing Systems, or NFPA 17A, Wet Chemical Extinguishing Systems.

513.11 Portable Fire Extinguishers. Portable fire extinguishers shall be selected and installed in kitchen cooking areas in accordance with ~~NFPA 10 Chapter 3, Title 19 California Code of Regulations~~ and shall be specifically listed for such use. Class K fire extinguishers shall be provided for cooking appliances hazards that involve combustible cooking media such as vegetable oils, animal oils, and fats. ~~Chapter 3, Title 19 California Code of Regulations.~~

513.11.1 Other Fire Extinguishers. Portable fire extinguishers shall be provided for other hazards in kitchen areas and shall be selected and installed in accordance with ~~NFPA 10 Chapter 3, Title 19 California Code of Regulations.~~

516.2.7 Installation of Electrical Wiring. No electrical wiring shall be installed in the interior sections of the hood plenum that is capable of becoming exposed to grease.

Exception: As permitted by *the NFPA 70-California Electrical Code*.

516.2.9 Listing Evaluation. Listing evaluation shall include the following:

- (1) Capture and containment of vapors at published and labeled airflows.
- (2) Grease discharge at the exhaust outlet of the system not to exceed an average of 2.9 E-09 (oz/in3) (5.0 E-06 kg/m3) of exhausted air sampled from that equipment at maximum amount of product that is capable of being processed over a continuous 8 hour test with the system operating at its minimum listed airflow.
- (3) Listing and labeling of clearance to combustibles from the sides, top, and bottom.
- (4) Electrical connection in the field in accordance with *the NFPA 70-California Electrical Code*.
- (5) Interlocks on removable components that lie in the path of airflow within the unit to ensure that they are in place during operation of the cooking appliance.

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

[6. The SFM proposes to adopt Chapter 6 with the following new and existing amendments and California regulations.]

**CHAPTER 6
DUCT SYSTEMS**

~~**601.3** *The performance criteria and requirements herein contemplate a duct that is a structural assembly having the capacity to support occupant health and safety while minimizing its own contribution to property damage under emergency conditions. Ducts can supply fresh or treated air in support of life and health, can convey products of combustion away from a fire zone, can maintain a pressure differential that facilitates evacuation and reduces the spread of fire and smoke, and can facilitate firefighter access to a fire source.*~~

602.1 General. Supply air, return air, and outside air for heating, cooling, or evaporative cooling duct systems constructed of metal shall comply with SMACNA HVAC Duct Construction Standards—Metal and Flexible or UL 181.

Concealed building spaces or independent construction within buildings shall be permitted to be used as ducts or plenums.

[Editorial Note: California Amendment to 2013 CMC text to be repealed]

~~*In other than Group A, E, H, I, L and R occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, corridors shall not be used to convey air to or from rooms where the corridor is required to be of fire resistive construction in accordance with the California Building Code. In Group A, E, H, I, L and R occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, corridors shall not be*~~

~~used to convey air to or from rooms except where permitted in accordance with section 1018.5 of the California Building Code.~~

605.8 When the automatic activation of a smoke damper or a combination smoke-fire damper occurs, the HVAC system serving such dampers shall immediately shut down.

Exceptions:

- (1) HVAC systems that are part of an engineered smoke evacuation system.
- (2) Where the automatic activation causes all the smoke dampers and combination smoke-fire dampers to close in the enclosed space having a common atmosphere where openings are required to be protected.
- (3) Where analysis demonstrates shutoff would create a greater hazard.

The HVAC system shall not be restarted again until all the dampers are reset and fully opened.

608.1 Air-Moving Systems and Smoke Detectors. Air-moving systems supplying air in excess of 2000 cubic feet per minute (ft³/min) (0.9439 m³/s) to enclosed spaces within buildings shall be equipped with an automatic shutoff. Automatic shutoff shall be accomplished by interrupting the power source of the air-moving equipment upon detection of smoke in the main supply-air duct served by such equipment. Duct smoke detectors shall comply with UL 268A, shall be labeled by an approved agency, approved and listed by California State Fire Marshal, and shall be installed in accordance with the manufacturer's installation instructions. Such devices shall be compatible, with the operating velocities, pressures, temperatures and humidities of the system. Where fire detection or alarm systems are provided for the building, the smoke detectors shall be supervised by such systems in an approved manner, and installed in accordance with NFPA 72 and the California Building and Fire Codes.

Exceptions:

- (1) Where the space supplied by the air-moving equipment is served by a total coverage smoke-detection system in accordance with the California Fire Code, interconnection such system shall be permitted to be used to accomplish the required shutoff.
- (2) Automatic shutoff is not required where occupied rooms served by the air-handling equipment have direct exit to the exterior and the travel distance does not exceed 100 feet (30 480 mm).
- (3) Automatic shutoff is not required for Group R, Division 3 and Group U Occupancies.
- (4) Automatic shutoff is not required for approved smoke control systems or where analysis demonstrates shutoff would create a greater hazard, such as shall be permitted to be encountered in air-moving equipment supplying specialized portions of Group H Occupancies. Such equipment shall be required to have smoke detection with remote indication and manual shutoff capability at an approved location.
- (5) Smoke detectors that are factory installed in listed air moving equipment shall be permitted to be used in lieu of smoke detectors installed in the main supply-air duct served by such equipment.

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

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

**CHAPTER 7
COMBUSTION AIR**

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

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

**CHAPTER 8
CHIMNEYS AND VENTS**

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

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

**CHAPTER 9
INSTALLATION OF SPECIFIC EQUIPMENT**

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

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

**CHAPTER 10
STEAM AND HOT WATER BOILERS**

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

[11. The SFM proposes to adopt Chapter 11 with the following existing amendments and California regulations.]

CHAPTER 11 REFRIGERATION

~~**1106.3.1 Refrigerant Service Ports.** Refrigerant service ports located outdoors shall be fitted with locking type tamper resistant caps or shall be protected from unauthorized access by a means acceptable to the Enforcing Agency.~~

1108.4 Installation, Maintenance, and Testing. Detection and alarm systems in accordance with Section 1106.4 shall be installed, maintained, and tested in accordance with the fire code *and with the equipment manufacturers' specifications.*

~~**1121.3 Annunciation.** Detection and alarm systems shall be annunciated for refrigerants at an approved location accordance with the as required for fire alarm systems in the Fire Code.~~

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

[12. The SFM proposes to not adopt Chapter 12.]

CHAPTER 12 HYDRONICS

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

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

**CHAPTER 13
FUEL GAS PIPING**

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

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

**CHAPTER 14
PROCESS PIPING**

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

[15. The SFM proposes to not adopt Chapter 15.]

**CHAPTER 15
SOLAR SYSTEMS**

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

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

**CHAPTER 16
STATIONARY FUEL CELL POWER PLANTS**

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

[17. The SFM proposes to adopt Chapter 17 without amendments.]

**CHAPTER 17
STANDARDS**

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

[18. The SFM proposes to not adopt Appendices A through G.]

**APPENDIX A
RESIDENTIAL PLAN EXAMINER REVIEW FORM FOR HVAC SYSTEM DESIGN**

**APPENDIX B
PROCEDURES TO BE FOLLOWED TO PLACE GAS EQUIPMENT IN OPERATION**

**APPENDIX C
INSTALLATION AND TESTING OF OIL (LIQUID) FUEL-FIRED EQUIPMENT**

**APPENDIX D
UNIT CONVERSION TABLES**

**APPENDIX E
SUSTAINABLE PRACTICES**

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

APPENDIX G
EXAMPLE CALCULATION OF OUTDOOR AIR RATE

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