

**EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION (CBSC) ON BEHALF OF THE
DEPARTMENT OF HEALTH SERVICES (DHS)

REGARDING PROPOSED CHANGES TO
2003 UNIFORM MECHANICAL CODE,
CALIFORNIA CODE OF REGULATIONS, 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: 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 Repealed text: All such language appears in ~~strikeout~~.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 California Building Standards Code (California Code of Regulations, Title 24, Part 1, 2, 3, 4, 5, 6, 7, 8, 10 & 12) is published in its entirety every three years and is effective to all buildings that submit an application for a building permit during its effective period. Each triennial edition of the California Building Standards Code becomes effective 180 days after its publication and is effective at the time an application for a building permit is submitted.

These proposed regulations will make effective the 2003 edition of the Uniform Mechanical Code (UMC) of the International Association of Plumbing and Mechanical Officials (IAPMO) for occupancies regulated by the Department of Health Services in California.

EXPRESS TERMS:

The California Building Standards Commission on behalf of the Department of Health Services (DHS), proposes to adopt the 2003 edition of the Uniform Mechanical Code (UMC) of the International Association of Plumbing and Mechanical Officials (IAPMO) for codification and effectiveness in the 2004 edition of the California Mechanical Code (CMC) as presented on the following pages. The California Building Standards Commission further proposes to repeal the 2001 CMC and the 2000 edition of the UMC of the International Conference of Building Officials, as presented on the following pages.

Adopt the following articles for Chapter 1 of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 1
ADMINISTRATION
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 1 and Adopt entire 2003 UMC Chapter without amendments		
Repeal entire 2000 UMC Chapter 1 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below	X	
101.0 CA	X	
102.0 CA	X	
103.1 CA	X	
103.1.1.1 CA	X	
103.1.5 CA	X	
104.6 CA	X	Corrects a duplication with 103.1.5
105.2 CA	X	
108.1.1 CA	X	
108.1.1.6 CA	X	
119 CA	X	
120 CA	X	
121.1 CA	X	

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

¹ New Amendments are shown underlined with "CA"

² Existing amendments of the 2001 California Mechanical Code being repealed are shown stricken with "CA"

³ Existing amendments being continued from the 2001 CMC into the 2004 CMC are shown italicized with "CA"

Amendments for chapter 1 are as follows:

101.0 Title

These regulations shall be known as the “California Mechanical Code”, which incorporates the 2003 revisions, copyrighted by the International Association of Plumbing & Mechanical Officials, to the Uniform Mechanical Code, may be cited as such, and will be referred to herein as “this code.”

102.0 Purpose

The purpose of this code is to provide minimum standards to safeguard life or limb, health, property and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation, and maintenance or use of heating, ventilating, cooling, refrigeration systems, incinerators and other miscellaneous heat-producing appliances within this jurisdiction. **[For DHS] for the State of California and the local enforcement agencies.**

The purpose of this code is not to create or otherwise establish or designate any particular class or group of persons who will or should be especially protected or benefited by the terms of this code.

103.0 Scope

103.1 Applicability. The provisions of this code shall apply to the erection, installation, alteration, repair, relocation, replacement, addition to, use or maintenance of any heating, ventilating, cooling, refrigeration systems, incinerators or other miscellaneous heat-producing appliances within this jurisdiction. **[For DHS] for the State of California and the local enforcement agencies.**

Additions, alterations, repairs to, and replacement equipment . . .

Where, in any specific case, different sections of this code specify different materials . . .

The design and testing of equipment regulated by this code shall be subject to the approval of the Authority Having Jurisdiction. **[For DHS] enforcing agency provided in section provided in 108.1.1.**

103.1.1 Effective Date.

103.1.1.1 [For DHS] Unless otherwise noted herein, effective date is 180 days after the date of publication.

103.1.5 [For DHS] Non-Building Regulations. Requirements contained in the UMC, or in any other reference standard code, or documents, which are not buildings standards as defined in Health and Safety Code Section 18909, shall not be construed as part of the provisions of this code.

103.5.1.1 [For DHS, HCD 1 & HCD 2] For the applicability of regulations related to maintenance, operation, use, limitations or prohibitions, and similar nonbuilding regulations, see other titles of the California Code of Regulations.

~~**104.6 Non-building Regulations.** Requirements contained in the UMC, or any other referenced standard, code or document, which are not building standards as defined in section 18909, Health and Safety Code, shall not be construed as part of the provisions of this code. For the applicability of regulations related to maintenance, operation, use, limitations or prohibitions, and similar nonbuilding regulations, see other titles of the California Code of Regulations.~~

105.2 [For DHS] Order of Precedence. *Where in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general and a specific requirement, the specific requirement shall apply.*

Mechanical standards in this code shall have no retroactive or retrospective effect or application on existing construction unless the term and time of application of such standards are specifically identified or specified in this code.

108.1.1 Application – Vesting authority. *When adopted by a state agency, the provisions of these regulations shall be enforced by the appropriate Administrative Authority, but only to the extent of authority granted to such agency by the state legislature.*

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

108.1.1.6 [For DHS]

DHS – Department of Health Services.

Application – Food establishments.

Enforcing Agency – DHS and the local health officer.

Authority Cited – H&SC ~~§§208 and §27502~~ 100275 and 113710.

Reference – H&SC ~~§§208~~ 100275, 113730, and 114140.

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

119.0 Format [For DHS]–*This part fundamentally adopts the UMC by reference on a chapter-by-chapter basis. Such adoption is reflected in the adoption table of each chapter of this part. When the adoption table of a specific chapter of the UMC, such chapter of the UMC is not adopted as a portion of this code.*

120.0 Validity [For DHS]

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.

121.0 Standard Reference Documents

121.1 [For DHS] *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.*

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

Adopt the following articles for Chapter 5 of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 5
EXHAUST SYSTEMS
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 5 and Adopt entire 2003 UMC Chapter without amendments		
Repeal entire 2000 UMC Chapter 5 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)	X	
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below		
509.5 <u>CA</u>	X	
<u>509.1.1</u> <u>CA</u>	<u>X</u>	

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

Amendments for chapter 5 are as follows:

509.0 Grease Removal Devices in Hoods.

509.1 Grease Removal Devices. Listed grease filters, baffles, or other approved grease removal devices for use with commercial cooking equipment shall be provided. Listed grease filters shall be tested in accordance with UL 1046, Grease Filters for Exhaust Ducts. Mesh filters shall not be used.

509.1.1 [For DHS] Grease filters shall be Class I when tested in accordance with the test method in SFM 12-71-1.

509.2 Installation.

509.2.1 The distance between the grease removal device and the cooking surface shall be as great as possible but not less than 18 in. (457.2 mm). Where grease removal devices are used in conjunction with charcoal or charcoal-type broilers, including gas or electrically heated charbroilers, a minimum vertical distance of 4 ft. (1.22 m) shall be maintained between the lower edge of the grease removal device and the cooking surface.

Exception No. 1: Grease removal devices supplied as part of listed hood assemblies shall be installed in accordance with the terms of the listing and the manufacturer's instructions.

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Exception No. 2: For cooking equipment without exposed flame and where flue gases bypass grease removal devices, the minimum vertical distance shall be permitted to be reduced to not less than 6 in. (152.4 mm).

509.2.2 Grease removal devices shall be protected from combustion gas outlets and from direct flame impingement occurring during normal operation of cooking appliances producing high flue gas temperatures, such as deep-fat fryers or upright or high broilers (salamander broilers), where the distance between the grease removal device and the appliance flue outlet (heat source) is less than 18 in. (457.2 mm). This protection shall be permitted to be accomplished by the installation of a steel or stainless steel baffle plate between the heat source and the grease removal device. The baffle plate shall be sized and located so that flames or combustion gases shall travel a distance not less than 18 in. (457.2 mm) from the heat source to the grease removal device. The baffle shall be located not less than 6 in. (152.4 mm) from the grease removal devices.

509.2.3 Grease filters shall be listed and constructed of steel or listed equivalent material and shall be of rigid construction that will not distort or crush under normal operation, handling, and cleaning conditions. Filters shall be tight fitting and firmly held in place.

509.2.4 Filters shall be easily accessible and removable for cleaning.

509.2.5 Filters shall be installed at an angle not less than 45 degrees from the horizontal.

509.2.6 Filters shall be equipped with a drip tray beneath their lower edges. The tray shall be kept to the minimum size needed to collect grease and shall be pitched to drain into an enclosed metal container having a capacity not exceeding 1 gal. (3.785 L).

509.2.7 Grease filters that require a specific orientation to drain grease shall be clearly so designated, or the hood shall be constructed so that filters cannot be installed in the wrong orientation.

509.3 Solid-Fuel Grease Removal Devices.

Where solid-fuel cooking equipment is provided with grease removal devices, these devices shall comply with Section 517.0.

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

[Note: SFM proposes amendment to be §509.2.3.1, following §509.2.3.]

Adopt the following articles for Chapter 7 of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 7
COMBUSTION AIR
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 7 and Adopt entire 2003 UMC Chapter without amendments	X	
Repeal entire 2000 UMC Chapter 7 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below		

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

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Adopt the following articles for Chapter 9 of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 9
EXHAUST SYSTEMS
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 9 and Adopt entire 2003 UMC Chapter without amendments		
Repeal entire 2000 UMC Chapter 9 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below	X	
912.0 UMC	X	
<u>907.0</u> <u>UMC</u>	<u>X</u>	

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

Section adopted for chapter 9 is as follows:

907.0 Decorative Appliances for Installation in Vented Fireplaces.

907.1 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 701.2. [NFPA 54:9.6.1]

907.2 Installation. A decorative appliance for installation in a vented fireplace shall be installed only in a vented fireplace having a working chimney flue and constructed of noncombustible materials. These appliances shall not be thermostatically controlled.

- (1) A listed decorative appliance for installation in a vented fireplace shall be installed in accordance with its listing and the manufacturer's instructions.
- (2) A decorative appliance for installation in a vented fireplace where installed in a manufactured home shall be listed for installation in manufactured homes.
- (3) An unlisted decorative appliance for installation in a vented fireplace shall be installed in a fireplace

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having a permanent free opening, based on appliance input rating and chimney height, equal to or greater than that specified in Table 9-2. [NFPA 54:9.6.2]

907.3 Fireplace Screens. A fireplace screen shall be installed with a decorative appliance for installation in a vented fireplace. [NFPA 54:9.6.3]

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

Adopt the following articles for Chapter 10 of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 10
STEAM AND HOT-WATER BOILERS
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 10 and Adopt entire 2003 UMC Chapter without amendments	X	
Repeal entire 2000 UMC Chapter 10 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below		

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

Adopt the following articles for Chapter 11 of the 2003 UMC:

¹ New Amendments are shown underlined with "CA"

² Existing amendments of the 2001 California Mechanical Code being repealed are shown stricken with "CA"

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(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER 11
REFRIGERATION
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 11 and Adopt entire 2003 UMC Chapter without amendments	X	
Repeal entire 2000 UMC Chapter 11 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below		

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

¹ New Amendments are shown underlined with "CA"

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³ Existing amendments being continued from the 2001 CMC into the 2004 CMC are shown italicized with "CA"

Adopt the following articles for Appendix Chapter A of the 2003 UMC:

(UMC standards adopted by DHS are applicable to food establishments in California.)

**CHAPTER APPENDIX A
UNIFORM MECHANICAL STANDARDS
MATRIX ADOPTION TABLE**

Adopting Agency	DHS	COMMENTS
Repeal entire 2000 UMC Chapter 10 and Adopt entire 2003 UMC Chapter without amendments		
Repeal entire 2000 UMC Chapter 10 and Adopt Entire 2003 UMC Chapter as amended ^{1, 2, 3} (amended sections listed below)		
Adopt Only those sections of the 2003 UMC which are listed below and/or Adopt Only those California promulgated sections ^{1, 2, 3} listed below	X	
Standard 6-2 UMC	X	

Notation

Authority: Health & Safety Code §§100275 and 113710

Reference(s): Health & Safety Code §§100275, 113730, and 114140

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