

**INITIAL STATEMENT OF REASONS  
FOR  
PROPOSED BUILDING STANDARDS  
OF THE  
OFFICE OF THE STATE FIRE MARSHAL (SFM)  
REGARDING THE ADOPTION BY REFERENCE OF THE  
2009 EDITION OF THE UNIFORM MECHANICAL CODE (UMC)  
WITH AMENDMENTS INTO THE 2010 CALIFORNIA MECHANICAL CODE (CMC)  
CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 4**

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The Administrative Procedure Act requires that an Initial Statement of Reasons be available to the public upon request when rulemaking action is being undertaken. The following are the reasons for proposing this particular rulemaking action:

**STATEMENT OF SPECIFIC PURPOSE AND RATIONALE**

(Government Code Section 11346.2)

The specific purpose of this rulemaking effort by the Office of the State Fire Marshal is to act accordance with Health and Safety Code section 18928, which requires all proposed regulations to specifically comply with this section in regards to the adoption by reference with amendments to a model code within one year after its publication.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies addressed in the 2009 Uniform Mechanical Code and be published as the 2010 California Mechanical Code.

The general purpose of this proposed action is principally intended to update and codify a new edition of the California Mechanical Code (California Code of Regulations, Title 24, Part 4) based upon a more current edition of a model code. The current California Mechanical Code in effect is the 2007 California Mechanical Code which is based upon the 2006 Uniform Mechanical Code of the International Plumbing and Mechanical Officials. This proposed action:

- Repeal the adoption by reference of the 2006 Uniform Mechanical Code of the International Plumbing and Mechanical Officials and incorporate and adopt by reference in its place the 2009 Uniform Mechanical Code of the International Plumbing and Mechanical Officials for application and effectiveness in the 2010 California Mechanical Code pursuant to Health and Safety Code 18928. Health and Safety Code 18928 requires any state agency adopting model codes to adopt the most recent edition.
- Repeal certain amendments to the 2006 Uniform Mechanical Code and/or California Building Standards not addressed by the model code that are no longer necessary pursuant with Health and Safety Code 18930(a)(7)..
- Adopt new building standards or necessary amendments to the 2009 Uniform Mechanical Code that address inadequacies of the 2009 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 2007 California Building Standards Code.
- Codify non-substantive editorial and formatting amendments from the format based upon the 2006 Uniform Mechanical Code to the format of the 2009 Uniform Mechanical Code.

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The specific purpose and rationale of each adoption, amendment, or repeal is as follows:

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[1]

**CHAPTER 1  
DIVISION I  
CALIFORNIA GENERAL CODE PROVISIONS**

The SFM propose to create two Divisions within Chapter 1 for existing administrative provisions being brought forward and administrative provisions contained in the 2009 UMC. The creation of two divisions is a result of and direction made by the California Building Standards Commissions, Code Coordinating Council and Stakeholder discussions regarding relocating the base model code administrative provisions from an appendix to Chapter 1 of the code. The SFM proposes to distinguish the California Chapter 1 administrative provisions from those of the base model code Chapter 1 administrative provisions by renumbering the California administrative sections.

**Sections 1.1 – 1.1.12**

The SFM is proposing to maintain the adoption of those existing California regulations contained Sections 1.1 through 1.1.12 with modification.

The SFM proposes to update the UMC reference from 2006 to 2009, and to make changes to provide consistency with other Parts of Title 24, administrative provisions. The SFM proposes to make nonsubstantive reference, grammatical, and punctuation corrections to Sections 1.1 through 1.1.12 for consistency with the Chapter 1, General Code Provisions of Title 24, Parts 2, 3, 4, 5, and 9. The SFM proposes modifications to 1.1.5 to further clarify that the National Fire Code also include the National Fire Code Standards by adding the term “standards”. The SFM proposes modifications to Section 1.1.8.1 are proposed to revise the mailing address for the Department of Housing and Community Developments (HCD) from a physical address to a post office box for mailings of findings to be filed with HCD. The SFM proposes modifications to clarify in Section 1.1.10 that complete copies of specified California Code of Regulations Titles are required to be maintained at the building official's office. These amendments do not create a change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[1.1]

**Sections 1.11 – 111.10**

The SFM is proposing to maintain the adoption of those existing California regulations contained Sections 1.11 through 1.11.10 with modification. The SFM proposes to distinguish the California Chapter 1 administrative provisions from those of the base model code Chapter 1 administrative provisions by renumbering the California administrative sections.

SFM proposes to make nonsubstantive reference, grammatical, and punctuation corrections to Sections 1.11 through 1.11.10 for consistency with the Chapter 1, General Code Provisions of Title 24, Parts 2, 3, 4, 5, and 9. SFM proposes modifications to 1.11.1 to further clarify the authority and reference for applications regulated by the SFM. SFM proposes modifications to clarify in Section 1.11.2.1.2 enforcement responsibilities for state owned buildings, state occupied buildings, and state institutions. SFM proposes modifications to remove obsolete language and terminology from Section 1.11.3.1 for public school plans and specifications and annual submission. These amendments do not create a change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[1.2]

**CHAPTER 1  
DIVISION II**

The SFM proposes the Division II designation for the UMC Chapter 1 Administrative provisions - Sections 101 through 117.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[2]

**CHAPTER 2  
DEFINITIONS**

The SFM proposes to adopt Chapter 2 with amendment and California regulation. Furthermore, the SFM is maintaining the adoption of those existing California definitions or model code definitions as amended in Chapter 2 without modification. The SFM is proposing adoption of this Chapter with amendment as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The SFM proposes to repeal amendments or California regulations for occupancy classification and the term U.M.C. The 2009 UMC now adequately addresses occupancies and the SFM reference to the California Building Code is no longer necessary. The term U.M.C. is no longer used by the SFM in the CMC and is no longer necessary.

**209 G  
Galvanized Steel**

See purpose and rational for Section 602.1.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[3]

**CHAPTER 3  
GENERAL REQUIREMENTS**

The SFM proposes to adopt Chapter 3 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 3 without modification. The SFM is proposing adoption of this Chapter with amendment as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

**303.7**

The SFM proposes editorial revisions to the above section to clarify reference to the California Fire Code.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property

against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[4]

## CHAPTER 4 VENTILATION AIR SUPPLY

The SFM proposes to adopt Chapter 4 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 4 without modification. The SFM is proposing adoption of this Chapter with amendment as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

### 401.0

The SFM proposes editorial revisions to the above section to correct the section reference.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

### 403.8 through 403.8.2.2

The SFM is proposing the new California regulations for enclosed parking garage exhaust ventilation. These proposed regulations are necessary due to the adoption of UMC paired with the IBC rather than the IMC (2009 IMC Section 404) paired with the IBC. The prior 2001 California Building Code regulated parking garage ventilation (Section 1202.2.7) and the 2001 California Mechanical Code relied on the building code to handle this issues.

Section 403.8 is proposed to make specific provisions for enclosed parking garages exhaust ventilation from the base model code provisions for exhaust ventilation. This new section maintains the base model code provisions referencing Table 4-4 and makeup air provisions with no change in regulatory effect. Additionally this new Section specifies that enclosed parking garage exhaust ventilation shall also comply with this section and the subsequent subsections for the following reasons:

Section 403.8.1 is necessary to resolve an omission in the California Mechanical Code and ASHRAE, the referenced standard on ventilation and exhaust, to set a spacing standard for exhaust inlets. This proposal sets a minimum for inlets whereas without there is no guidance or other standard to reference. The SFM is also proposing an exception to the prescriptive provisions of 403.8.1 for performance based engineered designs.

Sections 403.8.2 through 403.8.2.2 are necessary to resolve an omission in the California Mechanical Code and ASHRAE, the referenced standard on ventilation and exhaust, to allow intermittent ventilation of parking garages as has been local practice for over 20 years. The code change also requires that sensors be listed and sets the activation concentration based 2003 ASHRAE Application Handbook.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[5]

## CHAPTER 5 EXHAUST SYSTEMS

The SFM proposes to adopt Chapter 5 with amendment and California regulation. Furthermore the SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 5 without modification. The SFM is proposing adoption of this Chapter with amendment as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

**506.2**

See purpose and rational for Section 602.1.

**509.2.4**

The above Section as amended or Section containing California regulations are brought forward with modification. The SFM proposes editorial revisions to correct the reference title for the SFM standards referenced. There is no change in regulatory effect.

**510.7.1**

**510.7.1.1**

The SFM is proposing to repeal the California regulations related to Type I hoods in Section 510.7.1.1 and adopt the 2009 Uniform Mechanical Code provisions contained in Section 507.1. Furthermore the SFM received petition requesting the repeal, the SFM agrees with the petition that the adoption of the 2009 Uniform Mechanical code provisions adequately address Type I hoods. Furthermore the exception to Section 510 .7.1 allows for discretion of the enforcing agency to accept field applied or factory built grease duct enclosures.

**511.1.6**

**512.2.6**

**513.2.2**

**513.3.2**

**513.11**

**513.11.1**

**513.11.2**

**516.2.7**

**516.2.9**

The above Section as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[6]

**CHAPTER 6  
DUCT SYSTEMS**

The SFM is maintaining the adoption of those existing California regulations or Sections as amended in Chapter 6 without modification. The SFM is proposing adoption of this Chapter as amended as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

**601.3**

**602.1**

**602.3**

**602.4**

**602.5**

**603.0**

**604.2**

**604.5**

## 605.0

### Tables 6-1 through 6-10 (209-G Galvanized Steel) (506.2)

#### (Chapter 17 UMC Standards 2-2, 6-2 and 6-5) (Chapter 17 SMACNA/ANSI 006–2006 referenced Standard) (Appendix A UMC Standards 6-2 and 6-5)

The 2009 UMC refers to an outdated SMACNA duct construction standard (1995 version), and includes tables, and an Appendix extracted from this now outdated standard. SMACNA updated this standard in 2006, and it is now ANSI approved, entitled "SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible." However, the updated standard was published after the deadline for submitting code proposals for the 2009 UMC, resulting in its omission. IAPMO is in the process of updating this reference, but will not complete this process prior to the adoption of the 2010 California Mechanical Code.

The outdated reference, out of date tables and Appendix create conflict between code enforcement agencies, contractors and design engineering firms. HVAC contractors and design firms are currently using the 2006 version of SMACNA in their system duct design. Moreover, the 1995 version *is no longer published or available*.

In addition, the 2009 UMC, Chapter 17, Standards Table 17-1 only lists the updated 2006 SMACNA standard and does not list the outdated 1995 version referenced in the text of the code. This creates both confusion and a potential for conflict. The data within the SMACNA standard has been tested and promulgated through a consensus based process and should only be used in whole. Continued use of outdated partial extracts in the UMC will create confusion and inconsistency.

Finally, the SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible are already referenced in the other major industry HVAC documents, including:

- ASHRAE Standard 62.1
- ASHRAE Fundamentals Handbook
- National Fire Protection Association 90A, 90B, 96
- US Army Corp of Engineers
- International Mechanical Code
- International Energy Conservation Code

By adopting the 2006 SMACNA HVAC Duct Construction Standards into the 2010 California Mechanical Code, the State will ensure consistency with these other industry documents. In addition, much of the Federal stimulus money for energy efficiency requires the use of the most updated energy efficiency standards. The use of the outdated 1995 SMACNA HVAC Duct Construction Standards could potentially conflict with some of these requirements.

The proposal does the following:

- Moves the definition for the scope of this section that was contained in Appendix A (A6.201) to the body of the code in Section 601.0
- Amends Section 602.1 to replace the references to the outdated extracts of the 1995 SMACNA HVAC Duct Construction Standards with a reference to the 2006 SMACNA HVAC Duct Construction Standards.
- Updates the Standards listed in Chapter 17. 2009 UMC incorrectly identifies the 2006 SMACNA HVAC Duct Construction Standards as a "2005" standard.
- Eliminates Tables 6.1 through 6.10, which contain outdated extracts from the 1995 SMACNA HVAC Duct Construction Standards.
- Eliminates Appendix A, which contains simplified and outdated extracts from the 1995 SMACNA HVAC Duct Construction Standards. (Except for Section 6.201 - Scope, which will be moved to the body of the code in Section 601.0).

By simply referencing the 2006 SMACNA HVAC Duct Construction Standards and not replacing the deleted tables and Appendix A, the Code will be simplified and will eliminate confusion and conflict. The new standards are more complex and involved than the 1995 standards. As a result, including selected or simplified extracts within the code may lead to inaccuracies and misapplication of the standard.

## 606.8 609.0

The above Section as amended or Section containing California regulations are brought forward without modification. There is no change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[7]

#### **CHAPTER 7 COMBUSTION AIR**

The SFM is proposing the adoption of Chapter 7 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[8]

#### **CHAPTER 8 CHIMNEYS AND VENTS**

The SFM is proposing the adoption of Chapter 8 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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

#### **CHAPTER 9 INSTALLATION OF SPECIFIC EQUIPMENT**

The SFM is proposing the adoption of Chapter 9 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

**932.0**

**932.1**

**932.2**

**932.3**

**932.4**

**932.5**

The SFM is proposing to repeal the California regulations related to Warm-Air Furnaces in the above Sections and adopt

the updated 2009 Uniform Mechanical Code provisions for Warm-Air Furnaces. There is no change in regulatory effect.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[10]

## **CHAPTER 10 STEAM AND HOT WATER BOILERS**

The SFM is proposing the adoption of Chapter 10 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[11]

## **CHAPTER 11 REFRIGERATION**

The SFM proposes to adopt Chapter 5 with amendment and California regulation. The SFM is proposing adoption of this Chapter with amendment as shown in the corresponding Matrix Adoption Table pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

### **1106.3.1**

The SFM in coordination with the Department of Housing Community Development, the Office of Statewide Health and Planning and other state agencies, is proposing to add this new amendment the California Mechanical Code. The existing model code does not address the issue of accessibility to potentially dangerous chemical Chlorofluorocarbons (CFCs/Freon) by untrained and unlicensed individuals.

Because Freon is easily accessible, "huffing", which refers to the inhalation of Freon and other chemicals, has been on the rise over the past few years not only among pre-teens and teenagers but among adults as well.

The National Institute on Drug Abuse reports that one in five American teens have used Inhalants to get high. According to Stephen J. Pasierb, President and CEO of The Partnership for Drug-Free America, 22% of 6th and 8th graders admitted abusing inhalants and only 3% of parents think their child has ever abused inhalants. An analysis of 144 Texas death certificates by the Texas Commission on Alcohol and Drug Abuse involving misuse of inhalants found that the most frequently mentioned inhalant (35%) was Freon (51 deaths). Of the Freon deaths, 42 percent were students or youth with a mean age of 16.4 years. 55% of deaths linked to inhalant abuse are caused by "Sudden Sniffing Death Syndrome." SSDS can occur on the first use or any use.

This amendment will have a positive impact on the safety and health of our citizens, especially our youth. It will reduce the number of deaths associated with Inhalant abuse and the number of injuries associated with Freon accidents and leaks.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

### **1121.3**

The SFM is proposing amendment to detection and alarm annunciation for refrigeration rooms to provide specific guidance as to where to install annunciation devices in locations as required for fire alarm systems required by the fire code. This proposal corrects a missing link between the California Mechanical Code and NFPA 72 as referenced by the California Fire Code. There is no change in regulatory effect or additional cost added resulting from this amendment.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

### **1121.4**

The SFM propose to reference the equipment manufactures specifications for the installation, maintenance and testing to be included in addition to the provisions of the California Fire Code as the equipment manufacture will have more specific requirements than that of the provisions of the California Fire Code. There is no change in regulatory effect or additional cost added resulting from this amendment.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[12]

## **CHAPTER 12 HYDRONICS**

The SFM proposes to not adopt Chapter 12 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[13]

## **CHAPTER 13 FUEL GAS PIPING**

The SFM is proposing the adoption of Chapter 13 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[14]

**CHAPTER 14  
PROCESS PIPING**

The SFM is proposing the adoption of Chapter 14 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[15]

**CHAPTER 15  
SOLAR SYSTEMS**

The SFM proposes to not adopt Chapter 15 pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[16]

**CHAPTER 16  
STATIONARY FUEL CELL POWER PLANTS**

The SFM is proposing the adoption of Chapter 16 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[17]

**CHAPTER 17  
STANDARDS**

The SFM is proposing the adoption of Chapter 17 without amendment pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

**UMC Standards 2-2, 6-2 and 6-5**

**SMACNA/ANSI 006–2006 referenced Standard**

See purpose and rationale for Section 601.3.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[18]

**APPENDIX A  
UNIFORM MECHANICAL CODE STANDARD NO. 2-2**

**APPENDIX A  
UNIFORM MECHANICAL CODE STANDARD NO. 6-2**

**APPENDIX A  
UNIFORM MECHANICAL CODE STANDARD NO. 6-5**

The SFM proposes to not adopt Appendix A Standards 2-2, 6-2 and 6-5 and remove from the CMC pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2. See purpose and rationale for Section 601.3.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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[19]

**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**

The SFM proposes to not adopt Appendices B through D pursuant to Health and Safety Code Sections 13108, 13113, 13114, 13131.5, 13143, 13143.6, 17921 and 18949.2.

The actions described above are reasonably necessary to carry out the purpose for which it is proposed. The rationale for these actions is to establish minimum requirements for the prevention of fire and for the protection of life and property against fire and panic in occupancies that are addressed in the 2009 Uniform Mechanical Code and published as the 2010 California Mechanical Code pursuant to Health and Safety Code Section 13108, 13113, 13114, 13131.5, 13143, 17921, and 18949.2.

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**TECHNICAL, THEORETICAL, AND EMPIRICAL STUDY, REPORT, OR SIMILAR DOCUMENTS:**

(Government Code Section 11346.2(b)(2))

The SFM did not rely on any technical, theoretical, and empirical study, report, or similar documents outside of those contained in this rulemaking in proposing that CBSC adopt said model code as a reference standard for the placement of existing SFM regulatory amendments for the California Building Standards Codes.

**CONSIDERATION OF REASONABLE ALTERNATIVES**

(Government Code Section 11346.2(b)(3)(A))

The SFM has determined that no alternative considered would be more effective in carrying out the purpose for which the regulation is proposed or would be as effective and less burdensome to affected private persons than the proposed adoption by reference with SFM amendments. Therefore, there are no alternatives available to the SFM regarding the proposed adoption of an electrical code.

**REASONABLE ALTERNATIVES THE AGENCY HAS IDENTIFIED THAT WOULD LESSEN ANY ADVERSE IMPACT ON SMALL BUSINESS.**

(Government Code Section 11346.2(b)(3)(B))

The SFM has determined that no alternative available that would be more effective in carrying out the purpose for which the regulation is proposed or would be as effective and less burdensome to affected private persons than the proposed adoption by reference with SFM amendments. Therefore, no alternatives have been identified or that have otherwise been identified and brought to the attention of the SFM that would lessen any adverse impact on small business.

**FACTS, EVIDENCE, DOCUMENTS, TESTIMONY, OR OTHER EVIDENCE OF NO SIGNIFICANT ADVERSE IMPACT ON BUSINESS.**

(Government Code Section 11346.2(B)(4))

The SFM has made an determination that this proposed action will not have a significant adverse economic impact on business. Health and Safety Code Section 18928 requires the SFM, when proposing the adoption of a model code, national standard, or specification shall reference the most recent edition of the applicable model code, national standard, or specification. Therefore, there are no other facts, evidence, documents, testimony, or other evidence on which the SFM relies to support this rulemaking.

**DUPLICATION OR CONFLICTS WITH FEDERAL REGULATIONS**

(Government Code Section 11346.2(b)(5))

The SFM has determined that this proposed rulemaking action does not unnecessary duplicate or conflict with federal regulations contained in the Code of Federal Regulations that address the same issues as this proposed rulemaking.

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