

**EXPRESS TERMS  
OF  
PROPOSED BUILDING STANDARDS  
OF THE  
DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY (DSA-SS)  
  
REGARDING ADOPTION OF THE 2009 UNIFORM MECHANICAL CODE,  
FOR USE IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4**

**LEGEND FOR EXPRESS TERMS**

1. California amendment (CA) language being continued without modification is shown in *italics*.
1. New California amendment (CA) language is shown *underlined and in italics*.
2. Repealed California amendment (CA) language is shown in ~~*strikeout and in italics*~~.
3. Model code language that is modified: Model code text that is not adopted is shown in ~~normal font~~, and new California amendment language is shown *underlined and in italics*.

The Division of the State Architect - Structural Safety (DSA-SS) adopts model code provisions and promulgates amendments as required by statute for application to public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

As presented on the following pages, DSA-SS proposes to adopt provisions contained in the 2009 edition of the Uniform Mechanical Code (UMC) of the International Association of Plumbing and Mechanical Officials for codification as the 2010 edition California Mechanical Code (CMC). DSA-SS further proposes to repeal all model code provisions contained in the Uniform Mechanical Code (UMC), 2006 edition, which were adopted by DSA-SS for codification as the 2007 edition California Mechanical Code.

These proposed regulations will also make effective the 2009 edition of the Uniform Mechanical Code (UMC) as the 2010 edition California Mechanical Code, 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).

**CALIFORNIA MECHANICAL CODE – CHAPTER 1**

Continue Chapter 1 of the 2007 triennial edition of the California Mechanical Code (CMC) for publication in the 2010 triennial edition of the CMC, with editorial amendments as shown below:

<b>2007 CMC Chapter 1</b>	<b>2010 CMC Chapter 1</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
101.1 Title	1.1.1	X	<u>X</u>	
101.2 Purpose	1.1.2	X	<u>X</u>	
101.3 Scope	1.1.3	X	<u>X</u>	DSA-SS adopts Item 11 of Article 1.1.3.
101.4 Appendices	1.1.4	X	<u>X</u>	
101.5 Referenced Codes	1.1.5	X	<u>X</u>	
101.6 Non-Building Standards, Orders and Regulations	1.1.6	X	<u>X</u>	

101.7 Order of Precedence and Use	1.1.7	X	<u>X</u>	
101.8 City, County, or City and County Amendments, Additions or Deletions	1.1.8			
101.9 Effective Date of this Code	1.1.9	X	<u>X</u>	
101.10 Availability of Codes	1.1.10	X	<u>X</u>	
101.11 Format	1.1.11	X	<u>X</u>	
101.12 Validity	1.1.12			
109.2 DSA-SS	1.9.2.1 (DSA-SS)	X	-	
-	1.9.2.2 (DSA-SS/CC)	-	<u>X</u>	New amendment

**CALIFORNIA CHAPTER 1**  
**GENERAL CODE PROVISIONS**

**CHAPTER 1**

**CALIFORNIA ADMINISTRATION**

**DIVISION I**

**401-0 1.1.0 General**

**401-1 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 ~~2006~~ 2009 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

**401-2 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.*

**401-3 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.*

**401-3.1 1.1.3.1 Nonstate-regulated buildings, structures, and applications.** *Except as modified by local ordinance pursuant to Section ~~401-8~~ 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, ~~2.5~~, 3, 4, 5, 6, 9, and 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.*

**401-3.2 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 ~~s~~Sections ~~402~~ 1.2 through ~~444~~ 1.14, except where modified by local ordinance pursuant to Section ~~404.8~~ 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 ~~s~~State ~~L~~egislature.

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

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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 ~~409.2~~ 1.9.2 for additional scope provisions.*

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**401.4 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 ~~18938 (b)~~ 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 ~~404.8~~ 1.1.8 of this code.

**401.5 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.

**401.6 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.

**401.7 1.1.7 Order of precedence and use.**

**401.7.1 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.

**401.7.2 1.1.7.2 Specific provisions.** Where a specific provision varies from a general provision, the specific provision shall apply.

**401.7.3 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.

**401.8 1.1.8 ...**

**401.9 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.

**401.10 1.1.10 Availability of codes.** At least one ~~entire~~ 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).

**401.11 1.1.11 Format.** This part fundamentally adopts the Uniform Mechanical Code by reference on a chapter-by-chapter basis. Such adoption is reflected in the Matrix Adoption Table of each chapter of this part. When the Matrix Adoption Tables make no reference to a specific chapter of the International Building Code such chapter of the International Building Code is not adopted as a portion of this code.

**401.12 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 1.9**  
**DIVISION OF THE STATE ARCHITECT**

**1.9.1** (Reserved for DSA-AC)

**1.9.2** **Division of the State Architect - Structural Safety**

**1.9.2.1. 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.

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

**1.9.2.2. 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 1.9.2.1. Refer to Title 24, Part 2, Section 1.9.2.2.*

**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.

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

**APPENDIX CHAPTER 1**

**ADMINISTRATION**

**DIVISION II**

**(Chapter 1, Administration has been relocated from Appendix Chapter 1 and renamed Division II)**

**CALIFORNIA MECHANICAL CODE - CHAPTER 2**  
**Definitions**

Repeal Chapter 2 (Definitions) of the 2006 UMC, and adopt Chapter 2 (Definitions) of the 2009 UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 3**  
**General Requirements**

Repeal Chapter 3 (General Requirements) of the 2006 edition UMC, and adopt Chapter 3 (General Requirements) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 4**  
**Ventilation Air Supply**

Repeal Chapter 4 (Ventilation Air Supply) of the 2006 edition UMC, and adopt Chapter 4 (Ventilation Air Supply) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 5**  
**Exhaust Systems**

Repeal Chapter 5 (Exhaust Systems) of the 2006 edition UMC, and adopt Chapter 5 (Exhaust Systems) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 6**  
**Duct Systems**

Repeal Chapter 6 (Duct Systems) of the 2006 edition UMC, and adopt Chapter 6 (Duct systems) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 7  
Combustion Air**

Repeal Chapter 7 (Combustion Air) of the 2006 edition UMC, and adopt Chapter 7 (Combustion Air) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 8  
Chimneys and Vents**

Repeal Chapter 8 (Chimneys and Vents) of the 2006 edition UMC, and adopt Chapter 8 (Chimneys and Vents) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 9  
Installation of Specific Appliances**

Repeal Chapter 9 (Installation of Specific Equipment) of the 2006 edition UMC, and adopt Chapter 9 (Installation of Specific Appliances) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 10  
Steam and Hot Water Boilers**

Repeal Chapter 10 (Steam and Hot Water Boilers) of the 2006 edition UMC, and adopt Chapter 10 (Steam and Hot Water Boilers) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 11  
Refrigeration**

Repeal Chapter 11 (Refrigeration) of the 2006 edition UMC, and adopt Chapter 11 (Refrigeration) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE – CHAPTER 12  
Hydronics**

Repeal Chapter 12 (Hydronics) of the 2006 edition UMC, and adopt Chapter 12 (Hydronics) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE – CHAPTER 13  
Fuel Gas Piping**

Repeal Chapter 13 (Fuel Gas Piping) of the 2006 edition UMC, and adopt Chapter 13 (Fuel Gas Piping) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE – CHAPTER 14  
Process Piping**

Repeal Chapter 14 (Process Piping) of the 2006 edition UMC, and adopt Chapter 14 (Process Piping) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 15**  
**Solar Systems**

Repeal Chapter 15 (Solar Systems) of the 2006 edition UMC, and adopt Chapter 15 (Solar Systems) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 16**  
**Stationary Power Plants**

Repeal Chapter 16 (Stationary Fuel Cell Power Plants) of the 2006 edition UMC, and adopt Chapter 16 (Stationary Power Plants) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**CALIFORNIA MECHANICAL CODE - CHAPTER 17**  
**Standards**

Repeal Chapter 17 (Standards) of the 2006 edition UMC, and adopt Chapter 17 (Standards) 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**APPENDIX A - Uniform Mechanical Code Standards No. 2.2, No. 6-2, and No. 6-5**

Repeal Chapter 17 (Standards) of the 2006 edition UMC, and adopt Chapter 17 (Standards) 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**APPENDIX B - Procedures to be Followed to Place Gas Equipment in Operation**

DSA is not proposing the adoption of Appendix B of the 2009 edition UMC (Appendix B of the 2006 UMC was not adopted by DSA).

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter			

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

DSA is not proposing the adoption of Appendix C of the 2009 edition UMC (Appendix C of the 2006 UMC was not adopted by DSA).

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter			

**APPENDIX D - Unit Conversion Tables**

Repeal Appendix D (Unit Conversion Tables) of the 2006 edition UMC, and adopt Appendix D (Unit Conversion Tables) of the 2009 edition UMC without amendment for publication in the 2010 triennial edition of the California Mechanical Code.

<b>Adopting Agency</b>	<b>DSA-SS</b>	<b><u>DSA-SS/CC</u></b>	<b>Comments</b>
Adopt entire Chapter	X	<u>X</u>	

**DSA-SS**

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

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

**DSA-SS/CC**

**Authority:** Education Code § 81053.

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