

**FINAL 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*.
2. New California amendment (CA) language is shown *underlined and in italics*.
3. Repealed California amendment (CA) language is shown in ~~*strikeout and in italics*~~.
4. Model code language that is modified: Model code text that is not adopted is shown in ~~strikeout and 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:

2007 CMC Chapter 1	2010 CMC Chapter 1	DSA-SS	<u>DSA-SS/CC</u>	Comments
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 with proposed amendments shown below for publication in the 2010 triennial edition of the California Mechanical Code.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
Adopt entire Chapter as amended (amended sections shown below)	X	<u>X</u>	

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209 -G-

GALVANIZED STEEL – Any steel conforming to the requirements of ~~UMC Standard No. 2-2~~ *ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process.*

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**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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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 with proposed amendments shown below for publication in the 2010 triennial edition of the California Mechanical Code.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
Adopt entire Chapter as amended (amended sections shown below)	X	<u>X</u>	

506.2 Construction. Ducts used for conveying products shall be of substantial airtight construction and shall not have openings other than those required for operation and maintenance of the system. Ducts constructed of steel shall comply with Table 5-5 or 5-6.

Exceptions:

(1) Class 1 product-conveying ducts that operate at less than four (4) inches (102 mm) water column (995.6 Pa) negative pressure and convey noncorrosive, nonflammable, and nonexplosive materials at temperatures not exceeding 250°F (121°C) may be constructed in accordance with ~~Tables 6-1, 6-2, 6-3, 6-4, 6-5, 6-7, 6-8, or, with prior approval, UMC Standard No. 6-2~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard.

(2) Ducts used in central vacuuming systems within a dwelling unit shall be constructed of materials in compliance with the applicable standards referenced in Chapter 17. Penetrations of fire-resistive walls, or floor-ceiling or roof-ceiling assemblies shall comply with the Building Code. Copper or ferrous pipes or conduit extending from within the separation between a garage and dwelling unit to the central vacuum unit may be used.

The use of rectangular ducts conveying particulates shall be subject to approval of the building official. The design of rectangular ducts shall consider the adhesiveness and buildup of products being conveyed within the duct.

Aluminum construction may be used in Class 1 duct systems only. The thickness of aluminum ducts shall be at least two Brown and Sharpe gauges thicker than the gauges required for steel ducts set forth in Tables 5-5 and 5-6.

**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 with amendments shown below for publication in the 2010 triennial edition of the California Mechanical Code.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
Adopt entire Chapter as amended (amended sections shown below)	X	<u>X</u>	

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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 systems shall be conducted through duct systems constructed of metal as set forth in the ~~Tables 6-1, 6-2, 6-3, 6-4, 6-7, 6-8, 6-9, and 6-10, or metal ducts complying with UMC Standard No. 6-2 or the referenced HVAC duct construction standard 2 or the referenced HVAC duct construction standard in Chapter 17~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. Rectangular ducts in excess of two (2) inches w.g. shall comply with ~~UMC Standard No. 6-2 or the referenced HVAC duct construction standard in Chapter 17~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. Ducts, plenums, and fittings may be constructed of concrete, clay, or ceramics when installed in the ground or in a concrete slab, provided the joints are tightly sealed.

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602.3 Factory-Made Air Ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of the referenced standard for air ducts in Chapter 17. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliance with the referenced standard for air ducts in Chapter 17 and its class designation. These ducts shall be listed and shall be installed in accordance with the terms of their listing ~~and the requirements of UMC Standard No. 6-5~~. Flexible air connectors are not permitted

602.4 Joints and Seams of Ducts. Joints of duct systems shall be made substantially air-tight by means of tapes, mastics, gasketing, or other means.

Crimp joints for round ducts shall have a contact lap of at least 1-1/2 inch (38 mm) and shall be mechanically fastened by means of at least three (3) sheet-metal screws equally spaced around the joint, or an equivalent fastening method.

Joints and seams for 0.016 inch (0.41 mm) (No. 28 gauge) and 0.013 inch (0.33 mm) (No. 30 gauge) residential rectangular ducts shall be as specified in ~~Table 6-4~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard for 0.019 inch (0.48 mm) (No. 26 gauge) material.

Joints and seams for rectangular duct systems shall be as specified in ~~Table 6-4~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard.

Joints and seams for flat oval ducts and round ducts in other than single-dwelling units shall be as specified in ~~Table 6-8~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. Joints and seams and all reinforcements for factory-made air ducts and plenums shall meet with the conditions of prior approval in accordance with the installation instructions that shall accompany the product. Closure systems for rigid air ducts and plenums shall be listed in accordance with UL 181A, *Standard for Closure Systems for Use with Rigid Air Ducts and Air Connectors*. Closure systems for flexible air ducts shall be listed in accordance with UL 181B, *Standard for Closure Systems for Use with Flexible Air Ducts and Air Connectors*.

602.5 Metal. Every duct, plenum, or fitting of metal shall comply with ~~Table 6-1 or 6-8~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard.

Exceptions:

- (1) ~~Ducts, plenums, and fittings for systems serving single-dwelling units may comply with Table 6-9.~~
- (2) ~~Duct systems complying with UMC Standard No. 6-2 or the referenced HVAC duct construction standard in Chapter 17, with prior approval, or duct systems complying with UL 181, *Standard for Factory-Made Air Ducts and Air Connectors*.~~
- (3) ~~Duct systems complying with the UMC Standard No. 6-2 or the referenced HVAC duct construction standard in Chapter 17, with prior approval.~~

602.6 Tin. Existing tin ducts may be used when cooling coils are added to a heating system, provided the first ten (10) feet (3,048 mm) of the duct or plenum measured from the cooling coil discharge are constructed of metal of the gauge thickness set forth in ~~Tables 6-1, 6-8, or 6-9 of this chapter~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard or are of approved material and

construction. Tin ducts completely enclosed in inaccessible concealed areas need not be replaced. All accessible ducts shall be insulated to comply with ~~Table 6-6 of this chapter~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. For the purpose of this subsection, ducts shall be considered accessible where the access space is thirty (30) inches (762 mm) or greater in height.

603.0 Quality of Material. Galvanized steel shall be of lock-forming quality with a minimum coating of 1.25 ounces of zinc per square foot (0.04 kg/m³) conforming to the requirements of ~~UMC Standard No. 2-2~~ ASTM A653/A653M-03 Standard Specification for Steel Sheet, Zinc-Coat (Galvanized) or Zinc-Iron Alloy-Coat (Galvanized) by the Hot Dip Process.

604.2 Metal Ducts. Ducts shall be securely fastened in place at each change of direction and as set forth in ~~Table 6-7~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. Vertical rectangular ducts and vertical round ducts shall be supported as set forth in ~~Table 6-7, Part A~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard. Riser ducts shall be held in place by means of metal straps or angles and channels to secure the riser to the structure.

Metal ducts shall be installed with at least four (4) inches (102 mm) separation from earth. Metal ducts when installed in or under a concrete slab shall be encased in at least two (2) inches (51 mm) of concrete.

Ducts shall be installed in a building with adequate clearance so as to permit retaining the full thickness of fireproofing on structural members.

Supports for rectangular ducts as set forth in ~~Table 6-7~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard, when suspended from above, shall be installed on two opposite sides of each duct and shall be riveted, bolted, or metal screwed to each side of the duct at not more than the intervals specified.

Horizontal round ducts forty (40) inches (1,016 mm) or less in diameter when suspended from above shall be supported at intervals not more than as set forth in ~~Table 6-7~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard with one hanger installed to comply with the requirements listed below:

604.5 Support of Ducts. Installers shall provide the manufacturer's field fabrication and installation instructions.

In the absence of specific supporting materials and spacing, approved factory-made air ducts may be installed as set forth in ~~Table 6-10~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard.

605.0 Insulation of Ducts.

Supply-, return-air ducts and plenums of a heating or cooling system shall be insulated to achieve the minimum thermal (R) value as set forth in ~~Tables 6-6 A and B~~ SMACNA/ANSI 006-2006 HVAC Duct Construction Standards - Metal and Flexible or another approved duct construction standard.

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[DELETE TABLES 6-1 through 6-10]

TABLE 6-1 Duct Construction for 4 Foot Duct Lengths
[SMACNA HVAC Duct Construction Standards; Second Edition - 1995]

TABLE 6-2 Duct Construction for 5 Foot Duct Lengths
[SMACNA HVAC Duct Construction Standards; Second Edition - 1995]

TABLE 6-3
THICKNESS ADJUSTMENTS

TABLE 6-4
DIMENSION ADJUSTMENTS

**TABLE 6-5
REINFORCEMENTS**

~~TABLE 6-6 A (I-P Units)
Minimum Duct Insulation R Valuea Cooling and Heating Only Supply Ducts and Return Ductsd, e~~

~~TABLE 6-6 B (I-P Units)
Minimum Duct Insulation R Valuea Combined Heating and Cooling Ductsd, e~~

~~TABLE 6-7
Duct Support~~

~~TABLE 6-8
Construction Details for Round and Flat-Oval Ducts~~

~~TABLE 6-9
Thickness of Metal Ducts and Plenums Used for Heating or Cooling for a Single Dwelling Unit~~

~~TABLE 6-10
Alternate Supports for Factory-Made Air Ducts~~

**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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments

Adopt entire Chapter	X	<u>X</u>	
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**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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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 with amendments shown below for publication in the 2010 triennial edition of the California Mechanical Code.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
Adopt entire Chapter as amended (amended sections shown below)	X	<u>X</u>	

Part I – Standards Adopted as Part of This Code.

UMC Standard 2-2

UMC Section 209.0, 603.

Title and Source: ~~Galvanized Sheet Metals.~~

This test Standard has been deleted from the UMC. The tentative Specification A525-64T of the American Society for Testing and Materials has been withdrawn and replaced by A653 / A653-03 Standard Specification for Steel Sheet, Zinc Coat (Galvanized) or Zinc-Iron Alloy Coat (Galvanized) by the Hot Dip Process.

UMC Standard 6-2

UMC Section 506.2, 602.1, 602.5

Title and Source: ~~Metal Ducts, First Edition, 1985 HVAC Duct Construction Standards, Metal and Flexible~~, published by the Sheet Metal and Air-Conditioning Contractors National Association.

UMC Standard 6-5

UMC Section 602.3

Title and Source: ~~Installation of Factory-Made Air Ducts, Fibrous Glass Duct Construction Standards~~, published by the North America Insulation Manufacturers Association; and ~~Flexible Duct Performance and Installation Standards—4th Edition~~ published by the Air Diffusion Council.

**CHAPTER 17
STANDARDS TABLE 17-1
Standards for Equipment and Materials**

<p>SMACNA—2005 <u>ANSI/SMACNA 006-2006</u></p>	<p>HVAC Duct Construction Standards Metal and Flexible 3rd edition</p>	<p>Ducts, Metal and Flexible</p>	<p>506.2, 602.1, <u>602.4</u>, <u>602.5</u>, <u>602.6</u>, <u>604.2</u> <u>604.5 and 605.0</u> Tables 6-1 and 6-2</p>
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APPENDIX A - Uniform Mechanical Code Standards No. 2.2, No. 6-2, and No. 6-5

Repeal Appendix A (UMC Standards No. 2.2, No. 6-2, and No. 6-5) of the 2006 edition UMC. DSA is **not** proposing to adopt Chapter 17 (Standards) 2009 edition UMC for publication in the 2010 triennial edition of the California Mechanical Code.

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

[DO NOT ADOPT APPENDIX A]

~~**APPENDIX A
UNIFORM MECHANICAL CODE STANDARD NO. 2-2
STANDARD FOR GALVANIZED SHEET METALS**~~

~~**APPENDIX A
UNIFORM MECHANICAL CODE STANDARD NO. 6-2
STANDARD FOR METAL DUCTS**~~

~~**APPENDIX A
UNIFORM MECHANICAL CODE STANDARD NO. 6-5
STANDARD FOR INSTALLATION OF FACTORY MADE AIR DUCTS**~~

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).

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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).

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.

Adopting Agency	DSA-SS	<u>DSA-SS/CC</u>	Comments
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.