

**EXPRESS TERMS
OF
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY (DSA-SS)**

**REGARDING ADOPTION OF THE 2006 UNIFORM PLUMBING CODE,
FOR USE IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5**

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 Repealed California amendment (CA) language is shown in ~~strikeout and in italics~~.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 2006 edition of the Uniform Plumbing Code (UPC) of the International Association of Plumbing and Mechanical Officials for codification as the 2007 edition California Plumbing Code (CPC).

Amendments contained in the 2001 edition CPC and adopted by DSA-SS are proposed to be continued, modified or repealed as indicated on the following pages. DSA-SS further proposes to repeal model code provisions of the 2000 edition Uniform Plumbing Code, which were adopted by DSA-SS for codification as the 2001 edition California Plumbing Code.

CHAPTER 1 - Administration

Model Code Adoption/Repeal: DSA-SS proposes the repeal of existing administrative amendments and the adoption of new administrative amendments as indicated below. The Building Standards Commission has advised DSA that Chapter 1 of the Uniform Plumbing Code will be relocated to Appendix Chapter 1 without modification, and that Chapter 1 will contain only the administrative provisions of the state agencies.

The following express terms for chapter 1 indicate DSA-SS repeal of all existing amendments contained in Chapter 1 of the 2001 CA Plumbing Code, and the adoption of new administrative provisions that have been provided by the BSC for promulgation by all state agencies.

101.1 Title

~~**101.1.1 [For DSA-SS]** This document shall be known as the "California Plumbing Code." The provisions contained in the California Plumbing Code of the (compiled) California Building Standards Code as defined in Section 18910, Health and Safety Code, may be cited as such and are referred to hereafter as "these regulations", "these plumbing standards" or "this code."~~

101.2 Purpose

~~**101.2.2 [For DSA-SS] California Purpose.** To provide minimum standards to safeguard life or limb, health, property and public welfare, and protect against hazards that may arise from the use of plumbing piping and systems by regulating and controlling the design, construction, installation, quality of materials, location and operation of plumbing piping systems within the State of California.~~

101.4 Scope

~~101.4.0 [For DSA-SS] Application.~~ The provisions of this code shall apply to the construction, alteration, moving, demolition, repair and use of all plumbing, gas, or drainage piping and systems or water heating or treating equipment in or on any building or structure or outdoors on any premise or property.

~~101.4.1.4.2 [For DSA-SS] Conflicts Between Codes.~~ When the requirements of this code conflict with the requirements of the California Mechanical Code, Title 24, Part 4, the California Mechanical Code shall prevail.

~~101.4.4 [For DSA-SS] Effective Date.~~ One hundred and eighty days after the date of publication, or as otherwise noted herein.

~~101.4.4.1 [For DSA-SS]~~ The applicable subsection of Health and Safety Code Section 18938 is repeated here for clarity and reads as follows:

...

~~101.4.4.2 [For DSA-SS]~~ the provisions of the model code which are adopted in this code are applicable to all occupancy groups and uses regulated by this code. The amendments to the model code are applicable only to those occupancies or uses which the state agency adopting the amendments is authorized to regulate as listed in Section 101.11.

~~101.6 [For DSA-SS] Non-Building Regulations.~~ Requirements contained in the U.P.C. or in any other reference 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.

~~101.7 [For DSA-SS] 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. When there is a conflict between a general and a specific requirement, the specific requirement shall apply.

~~101.8 [For DSA-SS] Format.~~ This part fundamentally adopts the U.P.C. by reference on a chapter by chapter basis. Such adoption is reflected in the adoption tables of each chapter of this part. When the adoption table of a chapter of this part makes no reference to a specific chapter of the U.P.C., such chapter is not adopted as a portion of this code.

~~101.9 Validity [For DSA-SS]~~ 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.

101.10 Standard Reference Documents

~~101.10.1 [For DSA-SS]~~ 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.

~~101.10.2 [For DSA-SS]~~ When this code does not specifically cover any subject relating to building design and construction, recognized fire prevention engineering practices shall be employed. The National Fire Codes and Fire Protection Handbook of the National Fire Protection Association may be used as authoritative guides in determining recognized fire prevention engineering practices.

101.11 [For DSA-SS] Application-Vesting Authority

101.11.10 [For 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~~—(DSA-SS)

~~Authority Cited~~—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.~~

~~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 observe the construction of public school buildings, and state-owned or state-leased essential services buildings.~~

~~The applicable building standards are as follows:~~

~~1. **Administrative Regulations.**~~

~~1.1 School Buildings; Sections 4-301 through 4-355, Group 1, Chapter 4, Part 1, Title 24, California Code of Regulations.~~

~~1.2 State-owned or State-leased Essential Services Buildings; Sections 4-201 through 4-249, Chapter 4, Part 1, Title 24, California Code of Regulations.~~

~~2. **Technical Regulations.**~~

~~Various model codes adopted by reference into the California Building Standards Code, Title 24, Parts 2, 3, 4, 5, 6, 7, 12, California Code of Regulations, for school buildings, and state-owned or state-leased essential services buildings.~~

~~The Division of the State Architect, in the performance of its duties, coordinates with other state offices as follows:~~

~~2.1 California Building Standards Commission~~

~~2.2 Office of Statewide Health Planning and Development~~

~~2.3 Office of the State Fire Marshal~~

~~2.4 Real Estate Services Division~~

~~2.5 Office of Public School Construction~~

APPENDIX CHAPTER 1
ADMINISTRATION ...

(Note: Chapter 1 of the Uniform Plumbing Code is relocated to Appendix Chapter 1. The California Chapter 1 shown below has been provided to DSA-SS by the California Building Standards Commission.)

CALIFORNIA CHAPTER 1
GENERAL CODE PROVISIONS

SECTION 101
GENERAL

101.1 Title. These regulations shall be known as the California Plumbing Code, may be cited as such and will be referred to herein as "this code." The California Plumbing Code is Part 5 of eleven 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 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.

101.2 Purpose. The purpose of the California Code of Regulations, Title 24, as known as the California Building Standards Code (CBSC) is to establish the minimum requirements to protect 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, 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.

101.3 Scope. The provisions of the California Building Standards Code (CBSC) shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout the State of California.

101.3.1 Non-State-Regulated Buildings, Structures, and Applications. The provisions in Chapters 2

through 16 of the Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials contained or referenced in this code shall apply to all occupancies and applications not regulated by a state agency.

EXCEPTION: Local modifications complying with Health & Safety Code Section 18938 (b) of Building Standards Law and Section 17958 of State Housing Law. See Section 101.7.

101.3.2 State-Regulated Buildings, Structures, and Applications. The model code provisions, amendments to them, and/or provisions where there are no relevant model code provisions shall apply to the following buildings or structures regulated by state agencies as referenced in the Matrix Adoption Tables and as specified in Sections 102 through 113. When adopted by a state agency, the provisions of this code shall be enforced by the appropriate enforcing agency, but only to the extent of authority granted to such agency by the State Legislature.

NOTE: See Legend to distinguish the model code provisions from the California provisions.

(1) ...

(11) Public elementary and secondary schools, community college buildings, and state-owned or state-leased essential services buildings regulated by the Division of the State Architect. See Section 109.2 for additional scope provisions.

...

101.4 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) of Building Standards Law and Health & Safety Code section 17950 for State Housing Law. See Section 101.7.

101.5 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 engineering practices shall be employed.

101.6 Non-Building Standards, Orders and Regulations. Requirements contained in the California Building Standards Code, or in any other referenced standard, code or document, which are not building standards as defined in section 18909, Health & Safety Code, shall not be construed as part of the provisions of this code. For non-building standards, orders, and regulations, see other Titles of the California Code of Regulations.

101.7 Order of Precedence and Use. In the event of any differences between these building standards and the standard reference documents, the text of these building standards shall govern. Where a specific provision varies from a general provision, the specific provisions shall apply.

101.8 City, County, or City and County Amendments, Additions or Deletions. The provisions of this code do not limit the authority of city, county, or city and county governments to establish more restrictive and reasonably necessary differences to the provisions contained in this code pursuant to complying with Section 101.8.1. The effective date of amendments, additions, or deletions to this code of cities, counties, or city and counties filed pursuant to Section 101.8.1 shall be the date filed. However, in no case shall the amendments, additions or deletions to this code be effective any sooner than the effective date of this code.

101.8.1 Findings and Filings.

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

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

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

(3) Findings prepared by fire protection districts shall be ratified by the local city, county, or city and county and filed with the California Department of Housing and Community Development at 1800 3rd Street, Room 260, Sacramento, CA 95814. See Health & Safety Code Section 13869.7.

101.9 Effective Date of this Code. Only those standards approved by the California Building Standards Commission and 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.

101.10 Availability of Codes. At least one copy of the entire Titles 8, 19, 20, 24, and 25 of the California Code of Regulations with all revisions shall be maintained in the office of the building official responsible for the administration and enforcement of this code. See Health & Safety Code Section 18942 (d) (1) & (2).

101.11 Format. This part fundamentally adopts the Uniform Plumbing 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 Uniform Plumbing Code, such chapter of the Uniform Plumbing Code is not adopted as a portion of this code.

101.12 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.

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

SECTION 109 **Division of the State Architect**

(109.1 - Reserved for DSA-AC)

109.2 [For 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 - (DSA - SS)

Authority Cited - 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.

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 observe the construction of public school buildings, and state-owned or state-leased essential services buildings.

CHAPTER 2 - Definitions

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 2 (Definitions), and adopt entire 2006 edition UPC Chapter 2 without amendment (existing amendments are proposed to be repealed).

203.0 -A-

ADMINISTRATIVE AUTHORITY is the individual official, board, department, or agency established and authorized by a state, county, city, or other political subdivision created by law to administer and enforce the provisions of the plumbing code as adopted or amended. This definition shall include the Administrative Authority's duly authorized representative. ~~**[For DSA-SS] See enforcing agency.**~~

205. -C-

~~**California Building Code [For DSA-SS]** The most recent edition of Title 24, Part 2, California Code of Regulations.~~

207.0 -E-

~~**Enforcing Agency [For DSA - SS]** is the designated department or agency as specified in statutes and regulations to enforce the specific building standards promulgated or adopted by the specified state agency.~~

216.0 -N-

~~**Noncarriage Toilet Facility [For DSA - SS]** a toilet facility not connected to a sewer.~~

218.0 -P-

~~**Personal Service Room [For DSA - SS]** A room which is not directly connected with the production or service function performed by the establishment. Such rooms may include, but are not limited to, first aid or medical rooms, toilet rooms, change rooms, wash rooms, shower rooms, kitchens and lunch rooms.~~

221.0 -S-

~~**State Building Codes [For DSA - SS]** The most recent edition of the California Code of Regulations, Title 24, Part 2, known as the California Building Code.~~

223.0 -U-

~~**U.P.C. [For DSA - SS]** The latest edition of the Uniform Plumbing Code published by the International Association of Plumbing and Mechanical Officials.~~

CHAPTER 3 - General Regulations

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 3 (General Regulations), and adopt entire 2006 edition UPC Chapter 3 without amendment (existing amendment in Section 316.2.4 is proposed to be repealed).

~~**316.2.4 [For DSA - SS]** Dielectric unions shall be used at all points of connection where there is a dissimilarity of metals.~~

CHAPTER 4 - Plumbing Fixtures and Fixture Fittings

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 4 (Plumbing Fixtures), and adopt entire 2006 edition UPC Chapter 4 without amendment (existing amendment in Section 407.4.1 is proposed to be repealed).

407.4 Drinking Fountains

~~**407.4.1 [For DSA - SS]** Drinking fountains shall be installed and so regulated that a jet of water extending at least two inches from the water orifice shall be constantly available. The orifice shall not be accessible to the mouth of the drinker not subject to immersion.~~

CHAPTER 5 - Water Heaters

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 5 (Water Heaters), and adopt entire 2006 edition UMC Chapter 5 without amendment.

CHAPTER 6 - Water Supply and Distribution

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 6 (Water Supply and Distribution), and adopt entire 2006 edition UPC Chapter 6 as amended (amended sections listed below).

604.0 Materials

604.1 Water distribution pipe, building supply water pipe, and fittings shall be of brass, copper, cast iron, CPVC, galvanized malleable iron, galvanized wrought iron, galvanized steel, PEX, or other approved materials. Asbestos-cement, PE, PVC, PEX-AL-PEX, or PE-AL-PE water pipe manufactured to recognized standards may be used for cold water building supply distribution systems outside a building. PEX-AL-PEX water pipe, tubing, and fittings manufactured to recognized standards may be used for hot and cold water distribution systems within a building. PE-

AL-PE water pipe and fittings may be used for cold water distribution systems within a building. All materials used in the water supply system, except valves and similar devices, shall be of a like material, except where otherwise approved by the Authority having Jurisdiction.

~~**[For DSA-SS] Exception:** Use of PEX piping is not adopted for applications under the authority of the Division of the State Architect-Structural Safety.~~

604.11 PEX. ~~**[Not adopted by DSA-SS]**~~ Cross-linked polyethylene (PEX) tubing shall be marked with the appropriate standard designation(s) listed in Table 14-1 for which the tubing has been approved. PEX tubing shall be installed in compliance with the provisions of this section.

604.11.1 PEX Fittings. ~~**[Not adopted by DSA-SS]**~~ Metal insert fittings, metal compression fittings, and cold expansion fittings used with PEX tubing shall be manufactured to and marked in accordance with the standards for the fittings in Table 14-1.

604.11.2 Water Heater Connections. ~~**[Not adopted by DSA-SS]**~~ PEX tubing shall not be installed within the first eighteen (18) inches (457mm) of the piping connected to a water heater.

...

606.2.4 PVC Pipe

~~**606.2.4.1 [For DSA-SS]** Joints in PVC pipe shall be made as provided in Section 316.1.6, U.P.C.~~

~~**609.11 [For DSA-SS]** Refer to Title 24, Part 2 of the California Building Code for seismic anchorage and bracing requirements and accommodations for building displacements.~~

CHAPTER 7 - Sanitary Drainage

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 7 (Sanitary Drainage), and adopt entire 2006 edition UPC Chapter 7 without amendment (existing amendments in Sections 701.1.2.1, 705.1.1.1, and 705.2.5 are proposed to be repealed).

~~**701.1.2.1 [For DSA-SS]** ABS and PVC installations are limited to residential construction not more than two stories in height and to relocatable public school buildings.~~

~~**705.1.1.1 Caulked Joints [For DSA-SS]** All joints for liquid material are to be roamed to full size and cleaned of all loose materials.~~

~~**705.2.5 [For DSA-SS]** Joints in ABS and PVC pipe shall be made as provided in Section 316.0, U.P.C.~~

CHAPTER 8 - Indirect Wastes

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 8 (Indirect Wastes), and adopt entire 2006 edition UPC Chapter 8 without amendment (existing amendment in Section 811.2.1 is proposed to be repealed).

~~**811.2.1 [For DSA-SS]** ABS or PVC installations are permitted for lines carrying acid wastes in public school building laboratories.~~

CHAPTER 9 - Vents

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 9 (Vents), and adopt entire 2006 edition UPC Chapter 9 without amendment.

CHAPTER 10 - Traps and Interceptors

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 10 (Traps and Interceptors), and adopt entire 2006 edition UPC Chapter 10 without amendment.

CHAPTER 11 - Storm Drainage

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 11 (Storm Drainage), and

adopt entire 2006 edition UPC Chapter 11 without amendment.

CHAPTER 12 - Fuel Piping

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 12 (Fuel Piping), and adopt entire 2006 edition UPC Chapter 12 as amended (amended sections listed below).

~~1202.2.4~~ **1203.10 [For DSA - SS] Earthquake- actuated Gas Shutoff Valve.** A valve for installation in a gas piping system and designed to automatically shut off the gas at the location of the valve in the event of a seismic disturbance.

~~1244.24~~ **1211.18 [For DSA-SS] Earthquake-actuated Gas Shutoff Valves.** Earthquake-actuated gas shutoff valves, certified by the State Architect as conforming to California Referenced Standard 12-16-1, shall be provided for buildings when such installation is required by local ordinance. Earthquake-actuated gas shutoff valves which have not been certified by the State Architect shall be prohibited in buildings open to the public under mandatory installation by local ordinance.

CHAPTER 13 - Health Care Facilities and Medical Gas and Vacuum Systems

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Chapter 13.

CHAPTER 14 - Mandatory Referenced Standards

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Chapter 12 (Mandatory Referenced Standards), and adopt entire 2006 edition UPC Chapter 14 without amendment.

CHAPTER 15 - Firestop Protection

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Chapter 15.

APPENDIX A - Recommended Rules for Sizing the Water Supply System

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC and adopt entire 2006 edition UMC Appendix A without amendment.

APPENDIX B - Explanatory Notes on Combination Waste and Vent Systems

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Appendix B (Explanatory Notes on Combination Waste and Vent Systems), and adopt entire 2006 edition UPC Appendix B without amendment.

APPENDIX C - Deleted

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Appendix C.

APPENDIX D - Sizing Stormwater Drainage Systems

Model Adoption/Repeal: Repeal entire 2000 edition UPC Appendix D (sizing Stormwater Drainage Systems), and adopt 2006 edition UPC without amendment (existing amendment Section a.1 is proposed to be repealed).

D1 Roof Drainage

The rainfall rates in Table D-1 should be used for design unless higher values are established locally.

~~**a.1 [For DSA-SS]** ABS and PVC installations are limited to residential buildings and relocatable public school buildings, not more than two stories in height.~~

APPENDIX E - Manufactured / Mobile Home Parks and Recreational Vehicle Parks

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Appendix E.

APPENDIX F - Reserved

Model Code Adoption/Repeal: Do not adopt 2003 edition UPC Appendix F.

APPENDIX G - Graywater Systems for Single Family Dwellings

Model Adoption/Repeal: Do not adopt 2006 edition UPC Appendix G.

APPENDIX H - Recommended Procedures for Design, Construction and Installation of Commercial Kitchen Grease Interceptors

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Appendix H (Recommended Procedures for Design, Construction and Installation of Commercial Kitchen Grease Interceptors), and adopt entire 2006 edition UPC Appendix H without amendment.

APPENDIX I - Installation Standards

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Appendix I.

APPENDIX K - Private Sewage Disposal Systems

Model Code Adoption/Repeal: Repeal entire 2000 edition UPC Appendix K (Private Sewage Disposal Systems), and adopt entire 2006 edition UPC Appendix K without amendment.

APPENDIX J - Alternate Plumbing Systems

Model Code Adoption/Repeal: Do not adopt 2006 edition UPC Appendix J.

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.