INITIAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY (DSA-SS AND DSA-SS/CC)

REGARDING PROPOSED CHANGES TO
2016 CALIFORNIA PLUMBING CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5

The California Building Standards Code (California Code of Regulations, Title 24, Part 1, 2, 3, 4, 5, 6, ~~7,~~ 8, 9, 10, 11, and 12) is published in its entirety every three years and is applicable to all buildings for which an application for a building permit is made during the Code's effective period. Each triennial edition of the California Building Standards Code becomes effective 180 days after its publication.

These proposed regulations will make effective the 2015 edition of the Uniform Plumbing Code (UPC) as the 2016 edition California Plumbing Code (CPC), for application by DSA-SS (Division of the State Architect – Structural Safety) to public elementary and secondary schools, community colleges, and state-owned or state-leased essential services buildings.

These proposed regulations will also make effective the 2015 edition of the UPC as the 2016 edition CPC, 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).

Further, these proposed regulations will repeal the 2012 edition UPC articles adopted as the 2013 edition CPC.

LEGEND FOR EXPRESS TERMS
1. Existing California amendments or code language being modified are in italics when they appear in the model code text: All such language appears in *italics*, modified language is <u>underlined.</u>
2. New California amendments: All such language appears <u>*underlined and in italics*</u>.
3. Repealed text: All such language appears in ~~strikeout~~.

INITIAL EXPRESS TERMS

CALIFORNIA PLUMBING CODE
CHAPTER 1 - ADMINISTRATION

Continue Chapter 1, Division I (California Administration) of the 2013 triennial edition of the CPC for publication in the 2016 triennial edition of the CPC, with DSA proposed editorial amendments as shown below:

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt only those sections that are listed below	X	X	
1.1.1 Title	X	X	
1.1.2 Purpose	X	X	
1.1.3 Scope	X	X	DSA-SS adopts Item 11 of Article 1.1.3.
1.1.4 Appendices	X	X	

1.1.5 Referenced Codes	X	X	
1.1.6 Non-Building Standards, Orders and Regulations	X	X	
1.1.7 Order of Precedence and Use	X	X	
1.1.8 City, County, or City and County Amendments, Additions or Deletions	X	X	
1.1.9 Effective Date of this Code	X	X	
1.1.10 Availability of Codes	X	X	
1.1.11 Format	X	X	
1.1.12 Validity	X	X	
1.9.0 Division of the State Architect			
1.9.1 (Reserved for the DSA-AC)			
1.9.2 DSA-SS	X		
1.9.2.1 DSA-SS	X		
1.9.2.2 DSA-SS/CC		X	

CHAPTER 1
ADMINISTRATION
DIVISION I
CALIFORNIA ADMINISTRATION

1.1.0 General.

1.1.1 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 twelve parts of the official compilation and publication of the adoption, amendment, and repeal of plumbing regulations to the California Code of Regulations, Title 24, also referred to as the California Building Standards Code. This part incorporates by adoption the ~~2012~~ 2015 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

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.*

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.*

1.1.3.1 Non-State-Regulated Buildings, Structures, and Applications. *Except as modified by local ordinance pursuant to Section 1.1.8, the following standards in the California Code of Regulations, Title 24, Parts 2, 2.5, 3, 4, 5, 6, 9, 10 and 11 shall apply to all occupancies and applications not regulated by a state agency.*

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 Section 1.2.0 through 1.14.0, except where modified by local ordinance pursuant to Section 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 state Legislature.

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

1) …
2) …
3) …
4) …
5) …
6) …
7) …
8) …
9) …
10) …
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 1.9.2 for additional scope provisions.
12) …
13) …
14) …
15) …
16) …
17) …
18) …

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 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 1.1.8 of this code.*

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.*

1.1.6 Non-Building Standards, Orders and Regulations. *Requirements contained in the Uniform Plumbing 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.*

1.1.7 Order of Precedence and Use.

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.*

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

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.*

1.1.8 City, County, or City and County Amendments, Additions or Deletions.
…

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.*

1.1.10 Availability of Codes. *At least one 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).*

1.1.11 Format. *This part fundamentally adopts the Uniform Plumbing Code by reference on a chapter-by-chapter basis. When a specific chapter of the Uniform Plumbing Code is not printed in the code and is marked "Reserved", such chapter of the Uniform Plumbing Code is not adopted as a portion of this code. When a specific chapter of the Uniform Plumbing Code is marked "Not Adopted by the State of California" but appears in the code, it may be available for adoption by local ordinance.*

Note: *Matrix Adoption Tables at the front of each chapter may aid the code user in determining which chapter or sections within a chapter are applicable to buildings under the authority of a specific state agency, but are not to be considered regulatory.*

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*
…

1.9.0 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 observe 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 and Safety Code Section 16022.*

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

1.9.2.1.1 Adopting Agency Identification.
The provisions of this code applicable to buildings identified in this Subsection 1.9.2 will be identified in the Matrix Adoption Tables under the acronym DSA SS.

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~~ observe construction of community colleges electing to use the alternative building standards as provided in this section.

Authority Cited *- Education Code Section 81053.*

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

1.9.2.2.1 Adopting Agency Identification.
The provisions of this code applicable to buildings identified in this Subsection 1.9.2.2 will be identified in the Matrix Adoption Tables under the acronym DSA SS/CC.

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DIVISION II
ADMINISTRATION

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CALIFORNIA PLUMBING CODE
CHAPTER 2 - DEFINITIONS

Repeal Chapter 2 (Definitions) of the 2012 edition UPC.
Adopt Chapter 2 (Definitions) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 3 - GENERAL REGULATIONS

Repeal Chapter 3 (General Regulations) of the 2012 edition UPC.
Adopt Chapter 3 (General Regulations) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 4 - PLUMBING FIXTURES AND FIXTURE FITTINGS

Repeal Chapter 4 (Plumbing Fixtures and Fixture Fittings) of the 2012 edition UPC.
Adopt Chapter 4 (Plumbing Fixtures and Fixture Fittings) of the 2015 edition UPC with existing DSA amendments continued and proposed editorial amendments shown below for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
407.2.2.1 Metering Faucet Flow Rate	X	X	
408.2.1 Single Shower Head Flow Rate	X	X	
408.2.2 Multiple Shower Head Flow Rate	X	X	
411.2.2.1 Flushometer Valve Flow Rate	X	X	
411.2.3 Water Closets	X	X	
412.1.2 Urinal Flow Rate (wall mount)	X	X	
412.1.3 Urinal Flow Rate (floor mount)	X	X	
417.1.1 Wash Fountain Flow Rate	X	X	
417.1.2 Metering Faucet Flow Rate	X	X	
420.2.1 Kitchen Faucet Flow Rate	X	X	
~~Table A. Occupant Load Factor~~	~~X~~	~~X~~	
Table 422.1 Minimum Plumbing Facilities	X	X	
Table 422.1 Minimum Plumbing Facilities (Footnote-~~4~~ 7)	X	X	
Table A. Occupant Load Factor	X	X	

CHAPTER 4
PLUMBING FIXTURES AND FIXTURE FITTINGS

…

407.0 Lavatories.

407.1 Application. Lavatories shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, ASME A112.19.12, CSA B45.5/IAPMO Z124, or CSA B45.11/IAPMO Z401.

407.2 Water Consumption. The maximum water flow rate of faucets shall comply with Section 407.2.1 and Section 407.2.2.

407.2.1 Maximum Flow Rate. The maximum flow rate for public lavatory faucets shall not exceed 0.5 gpm at 60 psi (1.9 L/m at 414 kPa) and 2.2 gpm at 60 psi (8.3 L/m at 414 kPa) for private lavatory faucets in accordance with ASME A112.18.1/CSA B125.1.

407.2.2 Metering Faucets. Metered faucets shall deliver a maximum of 0.25 gallons (1.0 L) per metering cycle in accordance with ASME A112.18.1/CSA B125.1.

407.2.2.1 [DSA-SS & DSA-SS/CC] *Metering Faucets shall not deliver more than 0.20 gallons (0.76 L) per cycle in compliance with Chapter 5, Division 5.3 of the California*

Green Building Standards Code (CALGreen).

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408.0 Showers.

408.1 Application. Manufactured shower receptors and shower bases shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124.

408.2 Water Consumption. Showerheads shall have a maximum flow rate of not more than 2.5 gpm at 80 psi (9.5 L/m at 552 kPa), in accordance with ASME A112.18.1/CSA B125.1.

408.2.1 Single Showerhead. [DSA-SS & DSA-SS/CC] *Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

408.2.2 Multiple Showerheads Serving One Shower. [DSA-SS & DSA-SS/CC] *When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

Note: *A hand-held shower shall be considered a showerhead.*

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411.0 Water Closets.

411.1 Application. Water closets shall comply with ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124. Water closet bowls for public use shall be of the elongated type. In nurseries, schools, and other similar places where plumbing fixtures are provided for the use of children less than 6 years of age, water closets shall be of a size and height suitable for children's use.

411.2 Water Consumption. Water closets shall have a maximum consumption not to exceed 1.6 gallons (*6.0* Lpf) of water per flush in accordance with ASME A112.19.2/CSA B45.1.

411.2.1 Dual Flush Water Closets. Dual flush water closets shall comply with ASME A112.19.14. The effective flush volume for dual flush water closets shall be defined as the composite, average flush volume of two reduced flushes and one full flush.

411.2.2 Flushometer Valve Activated Water Closets. Flushometer valve activated water closets shall have a maximum flush volume of 1.6 gallons (6.0 Lpf) of water per flush in accordance with ASME A112.19.2/CSA B45.1

411.2.2.1 Flushometer Valve Activated Water Closets. [DSA-SS & DSA-SS/CC] *Flushometer valve activated water closets shall have a maximum flush volume of 1.28 gallons (4.8 L) of water per flush in accordance with ASME A112.19.2/CSA B45.1.*

411.2.3 Water Closets [DSA-SS & DSA-SS/CC] *The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the*

U.S. EPA WaterSense Specification for Tank-Type Toilets in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).

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412.0 Urinals.

412.1 Application. Urinals shall comply with ASME A112.19.2/CSA B45.1, ASME A112.19.19, or CSA B45.5/IAPMO Z124. Urinals shall have an average water consumption not to exceed 1 gallon (3.8 Lpf) of water per flush.

412.1.1 Nonwater Urinals. …

~~403.3.2~~ 412.1.2 Wall Mounted Urinals. [DSA-SS & DSA-SS/CC] …

~~403.3.3~~ 412.1.3 Floor Mounted Urinals. [DSA-SS & DSA-SS/CC] …

…

417.0 Faucets and Fixture Fittings.

417.1 Application. Faucets and fixture fittings shall comply with ASME A112.18.1/CSA B125.1. Fixture fittings covered under the scope of NSF 61 shall be in accordance with the requirements of NSF 61.

417.1.1 Wash Fountains. [DSA-SS & DSA-SS/CC] *Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi] in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

417.1.2 Metering Faucets for Wash Fountains. [DSA-SS & DSA-SS/CC] *Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi] in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

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420.0 Sinks.

420.1 Application. Sinks shall comply with ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4, or CSA B45.5/IAPMO Z124. Moveable sink systems shall comply with ASME A112.19.12.

420.2 Water Consumption. Sink faucets shall have a maximum flow rate of not more than 2.2 gpm at 60 psi (8.3 L/m at 414 kPa) in accordance with ASME A112.18.1/CSA B125.1.

Exceptions:
(1) Clinical sinks
(2) Laundry trays
(3) Service sinks

420.2.1 Kitchen Faucets. [DSA-SS & DSA-SS/CC] *Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

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Table 422.1
MINIMUM PLUMBING FACILITIES[1]

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction.[4] [7] Table 422.1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in increased occupant load.

For requirements for persons with disabilities, Chapter 11A or 11B of the California Building Code shall be used.

The total occupant load shall be determined in accordance with the ***[DSA-SS & DSA-SS/CC]*** *Occupant Load Factor Table A*.

TYPE OF OCCUPANCY[2]	WATER CLOSETS (FIXTURES PER PERSON)[3]	URINALS (FIXTURES PER PERSON)[4]	LAVATORIES (FIXTURES PER PERSON)[5, 6]	BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/FACILITIES (FIXTURES PER PERSON)	OTHER
A-1						
A-2						
A-3						
A-4						
A-5						
B						
E						
F1, F2						
I-1						
1-2						
1-3						
1-4						
M						
R-1						
R-2						
R-3						
R-3						
R-4						
S-1, S-2						

NOTES:

1 The figures shown are based upon one fixture being the minimum required for the number of persons indicated or any fraction thereof.

2. A restaurant is defined as a business that sells food to be consumed on the premises.

a. The number of occupants for a drive-in restaurant shall be considered as equal to the number of parking stalls.

b. Hand-washing facilities shall be available in the kitchen for employees.

3. The total number of required water closets for females shall be not less than the total number of required water closets and urinals for males.

4. ~~*[DSA/SS, DSA-SS/CC] In accordance with Sections 1.8.7 and 301.2, the Authority Having Jurisdiction may approve alternative designs criteria when determining the minimum number of plumbing fixtures.*~~ For each urinal added in excess of the minimum required, one water closet shall be permitted to be deducted. The number of water closets shall not be reduced to less than two-thirds of the minimum requirements.

5. Group lavatories that are 24 lineal inches (610 mm) of wash sink or 18 inches (457 mm) of a circular basin, where provided with water outlets for such space, shall be considered equivalent to one lavatory.

6. Metering or self-closing faucets shall be installed on lavatories intended to serve the transient public.

7. ***[DSA/SS, DSA-SS/CC]*** *In accordance with Sections 1.8.7 and 301.2, the Authority Having Jurisdiction may approve alternative designs criteria when determining the minimum number of plumbing fixtures.*

TABLE A.
OCCUPANT LOAD FACTOR:
[DSA-SS & DSA-SS/CC]

OCCUPANCY, **	*OCCUPANT LOAD FACTOR (square feet)* ~~*(CBC 2001, Table A-29A)*~~
Group A	
1. Auditoriums, convention halls, dance floors, lodge rooms, stadiums and casinos (where no fixed seating is provided) (use 1/2 "one-half" the number of fixed seating)	*15*
2. Conference rooms, dining rooms, drinking establishments, exhibit rooms, gymnasiums, lounges, stages and similar uses including restaurants classified as Group B occupancies	*30*
3. Worship places; principal assembly area, educational and activity unit (use 1/2 "one-half" the number of fixed seating) (where no fixed seating is provided	*30*
Group B Office or public buildings (area accessible to the public)	*200*
Group E Schools for day care, elementary, secondary	*50*
Educational Facilities Other than Group E Colleges, universities, adult center, etc.	*50*
Group F Workshop, foundries and similar establishments	*2,000*
Group H Hazardous materials fabrication and storage	*2,000*
Group I Hospital general use area, health Care facilities	*200*
Group M Retail or wholesale stores	*200*
Group R Congregate residence, Group R-1	*200*
Group S Warehouse	*5,000*

** Any uses not specifically listed shall be based on similar uses listed in this table.*

*** For building or space with mixed occupancies, use appropriate occupancy group for each area (for example, a school may have an "A" occupancy for the gymnasium, a "B" occupancy for the office, an "E" occupancy for the classrooms, etc.)*

Accessory areas may be excluded (for example: hallway, restroom, stair enclosure)

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CALIFORNIA PLUMBING CODE
CHAPTER 5 - WATER HEATERS

Repeal Chapter 5 (Water Heaters) of the 2012 edition UPC.
Adopt Chapter 5 (Water Heaters) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 6 - WATER SUPPLY AND DISTRIBUTION

Repeal Chapter 6 (Water Supply and Distribution) of the 2012 edition UPC.
Adopt Chapter 6 (Water Supply and Distribution) of the 2015 edition UPC with existing DSA amendments continued for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			
Adopt Entire Chapter as amended (amended sections listed below)	X	X	
Table 604.1 Materials for Building Supply and Water Distribution Piping and Fittings	X	X	

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TABLE 604.1
MATERIALS FOR BUILDING SUPPLY AND WATER DISTRIBUTION PIPING AND FITTINGS

MATERIAL	BUILDING SUPPLY PIPE AND FITTINGS	WATER DISTRIBUTION PIPE AND FITTINGS	REFERENCED STANDARD(S) PIPE	REFERENCED STANDARD(S) FITTINGS
Copper and Copper Alloys	X	X	ASTM B42, ASTM B43, ASTM B75, ASTM B88, ASTM B135, ASTM B251, ASTM B302, ASTM B447	ASME B16.15, ASME B16.18, ASME B16.22, ASME B16.26, ASME B16.51
CPVC	X	X	ASTM D2846, ASTM F441, ASTM F442, CSA B137.6	ASTM D2846, ASTM F437, ASTM F438, ASTM F439, ASTM F1970, CSA B137.6
CPVC-AL-CPVC	X	X	ASTM F2855	ASTM D2846
Ductile-Iron	X	X	AWWA C151	ASME B16.4, AWWA C110, AWWA C153
Galvanized Steel	X	X	ASTM A53	– –
Malleable Iron	X	X	—	ASME B16.3
PE	X[1]	—	ASTM D2239, ASTM D2737,	ASTM D2609, ASTM D2683, ASTM D3261,

			ASTM D3035, AWWA C901, CSA B137.1	ASTM F1055, CSA B137.1
PE-AL-PE	X	X	ASTM F1282, CSA B137.9	ASTM F1282, ASTM F1974, CSA B137.9
PE-RT	X	X	ASTM F2769	ASTM F1807, ASTM F2098, ASTM F2159; ASTM F2735, ASTM F2769
PEX[2, 3]	X	X	ASTM F876, ASTM F877, CSA B137.5, AWWA C904[1]	ASSE 1061, ASTM F877, ASTM F1807, ASTM F1960, ASTM F1961, ASTM F2080, ASTM F2159, ASTM F2735, CSA B137.5
PEX-AL-PEX[4]	X	X	ASTM F1281, CSA B137.10, ASTM F2262	ASTM F1281, ASTM F1974, ASTM F2434, CSA B137.10
PP	X	X	ASTM F2389, CSA B137.11	ASTM F2389, CSA B137.11
PVC	X[1]	—	ASTM D1785, ASTM D2241, AWWA C900	ASTM D2464, ASTM D2466, ASTM D2467, ASTM F1970
Stainless Steel	X	X	ASTM A269, ASTM A312	–

1. For Building Supply or cold-water applications.

2. *When PEX tubing is placed in soil and is used in potable water systems intended to supply drinking water to fixtures or appliances, the tubing or piping shall be sleeved with a material approved for potable water use in soil or other material that is impermeable to solvents or petroleum products.*

3. *PEX tubing shall meet or exceed the requirements of ASTM F 876-08 or an equivalent or more stringent standard when used in continuously recirculating hot water systems and the PEX tubing is exposed to the hot water 100% of the time.*

4. ***[For DSA/SS, DSA-SS/CC]*** *The use of PEX-AL-PEX in potable water supply systems is not adopted.*

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CALIFORNIA PLUMBING CODE
CHAPTER 7 - SANITARY DRAINAGE

Repeal Chapter 7 (Sanitary Drainage) of the 2012 edition UPC.
Adopt Chapter 7 (Sanitary Drainage) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 8 - INDIRECT WASTES

Repeal Chapter 8 (Indirect Wastes) of the 2012 edition UPC.
Adopt Chapter 8 (Indirect Wastes) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 9 - VENTS

Repeal Chapter 9 (Vents) of the 2012 edition UPC.
Adopt Chapter 9 (Vents) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 10 - TRAPS AND INTERCEPTORS

Repeal Chapter 10 (Traps and Interceptors) of the 2012 edition UPC.
Adopt Chapter 10 (Traps and Interceptors) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 11 - STORM DRAINAGE

Repeal Chapter 11 (Storm Drainage) of the 2012 edition UPC.
Adopt Chapter 11 (Storm Drainage) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

CALIFORNIA PLUMBING CODE
CHAPTER 12 - FUEL GAS PIPING

Repeal Chapter 12 (Fuel Gas Piping) of the 2012 edition UPC.
Adopt Chapter 12 (Fuel Gas Piping) of the 2015 edition UPC with existing DSA amendments continued with editorial revisions proposed as shown below for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	
Adopt Entire Chapter as amended (amended sections listed below)			
Adopt only those sections that are listed below			

Chapter/Section			
1210.18			Note: Sec. 1210.18 (Earthquake-Actuated Gas Shutoff Valves) is printed in Chapter 12 for simplicity and the reader's convenience. Amendment is not applicable to the DSA-SS or DSA-SS/CC occupancies (public schools, community colleges and state essential services buildings).

CHAPTER 12
FUEL GAS PIPING

…

1210.18 Earthquake-Actuated Gas Shutoff Valves. *Earthquake-actuated gas shutoff valves designed to automatically shut off the gas at the location of the valve in the event of a seismic disturbance and~~.~~ certified by the State Architect as conforming to California Code of Regulations, Title 24, Part 12 ~~Referenced Standards Code (CRSC)~~, Standard 12-~~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. Installation of the valves shall be in accordance with local ordinance, and in the absence of such per the manufacturer's installation instructions.*

~~*An earthquake-actuated gas shutoff valve is 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.*~~

…

CALIFORNIA PLUMBING CODE
CHAPTER 13 - HEALTH CARE FACILITIES AND MEDICAL GAS AND VACUUM SYSTEMS

DSA is not proposing the adoption of Chapter 13 (Health Care Facilities and Medical Gas and Vacuum Systems) of the 2015 edition UPC. DSA did not adopt Chapter 13 (Health Care Facilities and Medical Gas and Vacuum Systems) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

CALIFORNIA PLUMBING CODE
CHAPTER 14 – FIRESTOP PROTECTION

DSA is not proposing the adoption of Chapter 14 (Firestop Protection) of the 2015 edition UPC. DSA did not adopt Chapter 15 (Firestop Protection) of the 2012 edition UPC. The State Fire Marshal's Office is responsible for the adoption of fire and life safety standards contained in the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

CALIFORNIA PLUMBING CODE
CHAPTER 15 – ALTERNATE WATER SOURCES FOR

NONPOTABLE APPLICATIONS

DSA is not proposing the adoption of Chapter 15 (Alternate Water Sources for Nonpotable Applications) of the 2015 edition UPC. DSA did not adopt Chapter 16 (Alternate Water Sources for Nonpotable Applications) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

CALIFORNIA PLUMBING CODE
CHAPTER 16 – NONPOTABLE RAINWATER CATCHMENT SYSTEMS

DSA is not proposing the adoption of Chapter 16 (Nonpotable Rainwater Catchment Systems) of the 2015 edition UPC. DSA did not adopt Chapter 17 (Nonpotable Rainwater Catchment Systems) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

CALIFORNIA PLUMBING CODE
CHAPTER 17 – REFERENCED STANDARDS

Adopt Chapter 17 (Referenced Standards) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX A – RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM

Repeal Appendix A (Recommended Rules for Sizing the Water Supply System) of the 2012 edition UPC.
Adopt Appendix A (Recommended Rules for Sizing the Water Supply System) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX B – EXPLANATORY NOTES ON COMBINATION WASTE AND VENT SYSTEMS

Repeal Appendix B (Explanatory Notes on Combination Waste and Vent Systems) of the 2012 edition UPC.
Adopt Appendix B (Explanatory Notes on Combination Waste and Vent Systems) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX C – ALTERNATE PLUMBING SYSTEMS

DSA is not proposing the adoption of Appendix C (Alternate Plumbing Systems) of the 2015 edition UPC. DSA did not adopt Appendix C (Alternate Plumbing Systems) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX D – SIZING STORM WATER DRAINAGE SYSTEMS

Repeal Appendix D (Sizing Storm Water Drainage Systems) of the 2012 edition UPC.
Adopt Appendix D (Sizing Storm Water Drainage Systems) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX E – MANUFACTURED/MOBILE HOME PARKS AND RECREATIONAL VEHICLE PARKS

DSA is not proposing the adoption of Appendix E (Manufactured/Mobile Home Parks and Recreational Vehicle Parks) of the 2015 edition UPC. DSA did not adopt Appendix E (Manufactured/Mobile Home Parks and Recreational Vehicle Parks) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX F – FIREFIGHTER BREATHING AIR REPLENISHMENT SYSTEMS

DSA is not proposing the adoption of Appendix F (Firefighter Breathing Air Replenishment Systems) of the 2015 edition UPC. DSA did not adopt Appendix F (Firefighter Breathing Air Replenishment Systems) of the 2012 edition UPC. The State Fire Marshal's Office is responsible for the adoption of fire and life safety standards contained in the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX G – SIZING OF VENTING SYSTEMS

DSA is not proposing the adoption of Appendix G (Sizing of Venting Systems) of the 2015 edition UPC. DSA did not adopt Appendix G (Sizing of Venting Systems) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX H – PRIVATE SEWAGE DISPOSAL SYSTEMS

Repeal Appendix H (Private Sewage Disposal Systems) of the 2012 edition UPC.
Adopt Appendix H (Private Sewage Disposal Systems) of the 2015 edition UPC without DSA amendment for publication in the 2016 triennial edition of the CPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter	X	X	

APPENDIX I – INSTALLATION STANDARDS

DSA is not proposing the adoption of Appendix I (Installation Standards) of the 2015 UPC. DSA did not adopt Appendix I (Installation Standards) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX J – COMBINATION OF INDOOR AND OUTDOOR COMBUSTION AND VENTILATION OPENING DESIGN

DSA is not proposing the adoption of Appendix J (Combination of Indoor and Outdoor Combustion and Ventilation Opening Design) of the 2015 edition UPC. DSA did not adopt Appendix J (Combination of Indoor and Outdoor Combustion and Ventilation Opening Design) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX K – POTABLE RAINWATER CATCHMENT SYSTEMS

DSA is not proposing the adoption of Appendix K (Potable Rainwater Catchment Systems) of the 2015 edition UPC. DSA did not adopt Appendix K (Potable Rainwater Catchment Systems) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

APPENDIX L – SUSTAINABLE PRACTICES

DSA is not proposing the adoption of Appendix L (Sustainable Practices) of the 2015 edition UPC. DSA did not adopt Appendix L (Sustainable Practices) of the 2012 edition UPC.

Adopting Agency	DSA-SS	DSA-SS/CC	Comments
Adopt Entire Chapter			

(All existing amendments that are not revised above shall continue without any change)

Notation for [DSA-SS]
Authority: Education Code § 17310 and 81142, and H&S Code §16022.
Reference: Education Code §§ 17280 through 17317, and 81130 through 81147, and Health and Safety Code §§16000 through 16023.

Notation for [DSA-SS/CC]
Authority: Education Code § 81053.
Reference: Education Code §§ 81052, 81053, and 81130 through 81147.