APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION

DECEMBER 17, 2024

# FINAL EXPRESS TERMSFOR PROPOSED BUILDING STANDARDSOF THE DIVISION OF THE STATE ARCHITECT-STRUCTURAL SAFETY (DSA-SS)REGARDING THE 2025 CALIFORNIA PLUMBING CODE,CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5(DSA-SS 02/24)

The state agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

If using assistive technology, please adjust your settings to recognize underline, strikeout, italic and ellipsis.

## LEGEND for EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)

* Model Code language appears upright
* Existing California amendments appear in *italic*
* Amended model code or new California amendments appear *underlined & italic*
* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipses ( …) indicate existing text remains unchanged

## FINAL EXPRESS TERMS

### ITEM 1Chapter 1, Administration

DSA-SS proposes to bring forward existing California amendments in Chapter 1, Division I from the 2022 California Plumbing Code for adoption into the 2025 edition of the California Plumbing Code (CPC) with the following modifications.

#### ITEM 1-1Section *1.1.1 Title*

***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 thirteen 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 ~~2021~~ 2024 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023.

### ITEM 2Chapter 2, Definitions

DSA-SS proposes to adopt Chapter 2 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023.

### ITEM 3Chapter 3, General Regulations

DSA-SS proposes to adopt Chapter 3 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023.

### ITEM 4Chapter 4, Plumbing Fixtures and Fixture Fittings

DSA-SS proposes to adopt Chapter 4 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC with the following modifications.

#### ITEM 4-1Section 408.3 Water Consumption

**408.3 Water Consumption.** Showerheads shall have a maximum flow rate of not more that *1.8* gpm at 80 psi (*6.81* L/m at 552 kPa). Body sprays shall have a flow rate of not more than ~~2.5~~ *1.8* gpm at 80 psi (~~9.5~~ *6.81* L/m at 552 kPa). *Nonresidential body sprays shall comply with the showerhead requirements in Division 5.3 of CALGreen.*

#### ITEM 4-2Section 408.3.1 & 408.3.2 Single Showerhead & Multiple Showheads Serving one Shower

***~~408.2.1~~ 408.3.1 Single Showerhead [DSA-SS].*** *Showerheads shall have a … [No change to existing California amendment]*

***~~408.2.2~~ 408.3.2 Multiple Showerheads Serving One Shower [DSA-SS]*** *When a shower is served by more than … [No change to existing California amendment]*

#### ITEM 4-3Section 420.2.1 Kitchen Faucets

***420.2.1 Kitchen Faucets [DSA-SS].*** *Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons (6.81 L) per minute at 60 psi (414 kPa). Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons (8.3 L) per minute at 60 psi (414 kPa), and must default to a maximum flow rate of 1.8 gallons (6.81 L) per minute at 60 psi (414 kPa) in compliance with Chapter 5, Division 5.3 of the California Green Building Standards Code (CALGreen).*

#### ITEM 4-4Section 420.3.1 Pre-Rinse Spray Valves

***~~420.3.1 Pre-Rinse Spray Valves. [DSA-SS]~~*** *~~When installed, shall meet the~~**~~requirements in the California Code of Regulations, Title~~**~~20 (Appliance Efficiency Regulations), Section~~**~~1605.1(h)(4)~~ ~~Table H-2, Section 1605.3(h)(4)(A), and Section 1607(d)(7), and shall be equipped with an integral~~**~~automatic shutoff.~~*

***~~FOR REFERENCE ONLY:~~*** *~~The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1(h)(4) and Section 1605.3(h)(4)(A).~~*

***~~Table H-2~~***

***~~STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES
MANUFACTURED ON OR AFTER JANUARY 28, 2019~~*~~.~~**

|  |  |
| --- | --- |
| ***~~PRODUCT CLASS (spray force in ounce force (ozf))~~*** | ***~~MAXIMUM FLOW RATE (gpm)~~*** |
| *~~Product Class 1~~* ***~~(≤ 5.0 ozf)~~*** | *~~1.00~~* |
| *~~Product Class 2 (> 5.0 ozf and~~* ***~~≤ 8.0 ozf)~~*** | *~~1.20~~* |
| *~~Product Class 3 (>~~* ***~~8.0 ozf)~~*** | *~~1.28~~* |

*~~Title 20 Section 1605.3(h)(4)(A): Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf) [113 grams-force (gf)].~~*

#### ITEM 4-5Sections 422.1.1 Fixture Calculations and, 422.1.1.1 All Gender Fixture Calculations

**422.1.1 Fixture Calculations.** The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load. Where information submitted indicates a difference in the distribution of the sexes such information shall be used to determine the number of fixtures for each sex. Once the occupancy load and occupancy are determined, Table 422.1 shall be applied to determine the minimum number of plumbing fixtures required. Where applying the fixture ratios in Table 422.1 results in fractional numbers, such numbers shall be rounded to the next whole number. For multiple occupancies, fractional numbers shall be first summed and then rounded to the next whole number. ***~~[DSA-SS]~~*** *~~For toilet facilities designed for use by all genders, the minimum number of fixtures shall be the aggregate calculated at 50 percent female and 50 percent male in accordance with Table 422.1. Where multi-user all-gender facilities are provided in lieu of or in addition to separate men’s and women’s facilities, the total number of fixtures collectively shall be used to determine the number of fixtures provided in an occupancy.~~* For toilet facilities designed for use by all genders, the minimum number of fixtures shall be the aggregate calculated at 50 percent female and 50 percent male in accordance with Table 422.1. Where all-gender fixtures are provided in addition to separate men’s and women’s facilities, those fixtures shall be included in determining the number of fixtures provided in an occupancy. ***[DSA-SS]*** *The substitution of a water closet for each urinal shall be permitted provided the total number of fixtures installed complies with Table 422.1.*

#### ITEM 4-6Sections 422.2 Separate Facilities

**422.2 Separate Facilities.** Separate toilet facilities shall be provided for each sex.

**Exceptions:**

(1) ...

(4) ***~~[DSA-SS]~~*** *~~Separate facilities shall not be required where rooms have fixtures designed for use by all genders and the water closets are installed in privacy compartments. Urinals, when installed, shall be located in a privacy compartment or separate private area. Each compartment door shall be lockable from the inside of the compartment, with a door locking device that is readily distinguishable as locked from the outside of the compartment. Privacy compartments and doors which are not full height or floor to ceiling may be permitted by the enforcing agency.~~* Separate facilities shall not be required where rooms have fixtures designed for use by both sexes and the water closets are installed in privacy compartments. Urinals shall be located in a privacy compartment ***[DSA-SS]****, as defined or separate private area and be visually separated from the remainder of the room.Water closet and urinal compartments shall comply with sections 422.6 and 422.7 respectively.*

#### ITEM 4-7Section 422.6 Water Closet Compartment

**422.6 Water Closet Compartment.** Public water closets shall occupy a separate compartment with walls or partitions and a door enclosing the fixtures to ensure privacy. Partitions for water closets located in separate gender toilet or bathrooms shall comply with the Type B security requirements of IAPMO Z124.20. Partitions for water closets located in all gender toilet or bathrooms shall comply with Type A Security Requirements of IAPMO Z124.10.

**Exceptions:**

1. Water closet compartments shall not be required in a single-occupant toilet room having a lockable door.
2. Toilet rooms in day care facilities having more than one water closet without an enclosing compartment.
3. ***[DSA-SS].*** *Type A Security Requirements of IAPMO Z124.10 in all gender toilet or bathrooms shall not be allowed. Compartments for water closets located in all-gender multi-user bathrooms shall be privacy compartments, as defined. Each compartment door shall be lockable from the inside of the compartment, with a door locking device that is readily distinguishable as locked from the outside of the compartment. Privacy compartments and doors which are not full height or floor to ceiling may be permitted by the enforcing agency.*

#### ITEM 4-8Section 422.7 Urinal Partitions

**422.7 Urinal Partitions.** Each urinal shall be separated with walls or partitions to provide privacy. The horizontal dimension between walls or partitions at each urinal shall comply with Section 402.5. Partitions for urinals shall comply with the Type C Security requirements of IAPMO Z124.10. Walls or partitions shall extend from not less than 12 inches (305 mm) above the finished floor to not less than 60 inches (1524 mm) above the finished floor. Walls shall extend outward from the wall surface not less than 18 inches (457 mm). Urinals located in all gender toilet rooms shall be visually separated from the remainder of the room or each urinal shall be installed in a privacy compartment complying with Type A security requirements of IAPMO Z124.10.

**Exception*s***:

1. Urinal partitions shall not be required in a single occupant or family assisted-use toilet room with a lockable door.
2. ***[DSA-SS].*** *Type A Security Requirements of IAPMO Z124.10 in all gender toilet rooms shall not be allowed. Urinals in all gender toilet rooms, not located in a separate private area, shall be in a privacy compartments as defined. Each compartment door shall be lockable from the inside of the compartment, with a door locking device that is readily distinguishable as locked from the outside of the compartment. Privacy compartments and doors which are not full height or floor to ceiling may be permitted by the enforcing agency.*

#### ITEM 4-9TABLE 422.1 MINIMUM PLUMBING FACILITIES

**TABLE 422.1 MINIMUM PLUMBING FACILITIES1**

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction.*~~6~~ 8*Table 422.1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing buidlihg resulting in increased occupant load.

*…*

**Notes:**

***~~6~~ 8 [DSA-SS]*** *In accordance with Sections 1.8.7 and 301.3, the Authority …*

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023.

### ITEM 5Chapter 5, Water Heaters

DSA-SS proposes to adopt Chapter 5 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023.

### ITEM 6Chapter 6, Water Supply And Distribution

DSA-SS proposes to adopt Chapter 6 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 7Chapter 7, Sanitary Drainage

DSA-SS proposes to adopt Chapter 7 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 8Chapter 8, Indirect Wastes

DSA-SS proposes to adopt Chapter 8 of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 9 Chapter 9, Vents

DSA-SS proposes to adopt Chapter 9 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 10Chapter 10, Traps and Interceptors

DSA-SS proposes to adopt Chapter 10 of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 11Chapter 11, Storm Drainage

DSA-SS proposes to adopt Chapter 11 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 12Chapter 12, Fuel Gas Piping

DSA-SS proposes to adopt Chapter 12 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 13Chapter 13 Health Care Facilities and Medical Gas and Medical Vacuum Systems, Chapter 14 Firestop Protection, Chapter 15 Alternate Water Sources for Nonpotable Applications Chapter 16 Nonpotable Rainwater Catchment Systems

DSA-SS proposes to not adopt Chapters 13, 14, 15 and 16 of the 2024 UPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 14 Chapter 17, Referenced Standards

DSA-SS proposes to adopt Chapter 17 of the 2024 UPC with existing DSA-SS adopted California amendments carried forward into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 15 Appendix A, Recommended Rules for Sizing the Water Supply System

DSA-SS proposes to adopt Appendix A of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 16 Appendix B, Explanatory Notes on Combination Waste and Vent Systems

DSA-SS proposes to adopt Appendix B of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 17 Appendix C, Alternate Plumbing Systems

DSA-SS proposes to not adopt Appendix C of the 2024 UPC into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 18Appendix D, Sizing Storm Water Drainage Systems

DSA-SS proposes to adopt Appendix D of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 19Appendix E, Manufactured/Mobile Home Parks and Recreational Vehicle Parks, Appendix F, Firefighter Breathing Air Replenishment Systems, and Appendix G, Sizing of Venting Systems

DSA-SS proposes to not adopt Appendices E, F, and G of the 2024 UPC into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 20 Appendix H, Private Sewage Disposal Systems

DSA-SS proposes to adopt Appendix H of the 2024 UPC into the 2025 edition of the CPC without amendment.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 21 Appendix I, Installation Standard for PEX Tubing Systems for Hot and Cold Water Distribution

DSA-SS proposes to continue adoption of Appendix Chapter I, IAPMO IS 31-2022 only of the 2024 UPC without amendments into the 2025 CPC, and not adopt 2024 UPC Appendix sections IAPMO IS 26-2019e2, IAPMO IS 33-2019e1 and TCNA.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 22Appendix J, Combination of Indoor and Outdoor Combustion and Ventilation Opening Design, Appendix K, Potable Rainwater Catchment Systems, Appendix L, Sustainable Practices, and Appendix M, Peak Water Demand Calculator

DSA-SS proposes to not adopt Appendices J, K, L, and M of the 2024 UPC into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 23Appendix N - Impact of Water Temperature on the Potential for Scalding and Legionella Growth

DSA-SS proposes to adopt Appendix N of the 2024 UPC into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023

### ITEM 24Appendices O - Non-Sewered Sanitation Systems, P – Professional Qualifications Q – Indoor Horticultural Facilities, R – Tiny Homes and S - Onsite Stormwater Treatment

DSA-SS proposes to not adopt new Appendices O, P, Q, R and S of the 2024 UPC into the 2025 edition of the CPC.

#### Notation:

Authority: Education Code Sections 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81149, and Health and Safety Code Sections 16000 through 16023