APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION

DECEMBER 14, 2021

# FINAL EXPRESS TERMSFOR PROPOSED BUILDING STANDARDSOF THE DIVISION OF THE STATE ARCHITECT-STRUCTURAL SAFETY

# (DSA-SS AND DSA-SS/CC)REGARDING THE 2022 CALIFORNIA PLUMBING CODE,

# CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5

# (DSA-SS/CC 02/21)

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, italics 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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipsis ( ...) indicate existing text remains unchanged

# FINAL EXPRESS TERMS

## Item 1

## Chapter 1, ADMINISTRATION,DIVISION I, CALIFORNIA ADMINISTRATION

***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 ~~2018~~ 2021 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials with necessary California amendments.*

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 2

## Chapter 2, DEFINITIONS

DSA proposes to adopt Chapter 2 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 3

## Chapter 3, General Regulations

DSA proposes to adopt Chapter 3 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 4

## Chapter 4, Plumbing fixtures and fixture fittings

DSA proposes to adopt Chapter 4 of the 2021 UPC into the 2022 edition of the CPC with existing California amendments carried forward and additional changes.

…

**422.1 Fixture Count.** Plumbing fixtures shall be provided for the type of building occupancy and in the minimum number shown in Table 422.1 ***[OSHPD 1,1R,2,3,4 & 5]*** *and Tables 4-2 and Table 4-3.* The total occupant load and occupancy classification shall be determined in accordance with the *California Building Code* ***~~[~~******~~DSA-SS & DSA-SS/CC]~~*** *~~or Occupant Load Factor Table A~~.* Occupancy classification not shown in Table 422.1 shall be considered separately by the Authority Having Jurisdiction.

***Exception: [BSC, DSA-SS & DSA-SS/CC]*** *Using occupancy classification, described as function of space, determine occupant load factor from Table 4-1 Occupant Load Factor, of this chapter.*

…

**Table 422.1 MINIMUM PLUMBING FACILITIES1**

Each building shall be provided with sanitary facilities, … [No change to model code language]

*The total occupant load shall be determined in accordance with the* ***[BSC, DSA-SS & DSA-SS/CC]*** *California Building Code or Table 4-1 Occupant Load Factor ~~Table A~~*

**Chapter 4, *Table 4-1***

***TABLE ~~A~~4-1***

***OCCUPANT LOAD FACTOR:***

***[BSC, DSA-SS and DSA-SS/CC]***

| ***~~OCCUPANCY~~ FUNCTION OF SPACE\* \*\**** | ***OCCUPANT LOAD FACTOR*** *(square feet)* |
| --- | --- |
| ***~~Group A~~******Assembly*** *- without fixed seats*1. *~~Auditoriums, convention halls, dance floors, lodge rooms, stadiums, and casinos (where no fixed seating is provided)~~*

*~~(Where fixed seating is provided use one-half the number of fixed seating.)~~**Auditorium, convention and dance hall, lodge, stage, indoor sport/spectator event, worship, arcade, gaming (standing space)* | *~~15~~ 11* |
| 1. *~~Conference rooms, dining rooms, drinking establishments, exhibit rooms, gymnasiums, lounges, stages, and similar uses, including restaurants classified as Group B occupancies.~~*

*Waiting, terminal (portable seating space)* | *~~30~~ 15* |
| 1. *~~Worship places; principal assembly area, educational and activity unit (where no fixed seating is provided)~~*

*~~(Where no fixed seating is provided use one-half the number of fixed seating.)~~**Conference, dining/drinking, lounge (portable seating/table space)*  | *30* |
| *Gallery, museum, exhibit (standing space)* | *30* |
| ***Assembly*** *– with fixed seats* | *See CBC 1004.6**Use 50% of the fixed seating value* |
| ***~~Group B~~****~~Office or public buildings (area accessible to the public)~~* | *~~200~~* |
| ***Business*** *(office, sales/soliciting, administration, food processing, courtroom, ambulatory clinic)* | *150* *See CBC 1004.8* |
| ***Dormitory*** | *50* |
| ***~~Group E~~****~~Schools for day care, elementary, secondary~~* | *~~50~~* |
| ***Day care*** | *35* |
| ***~~Educational Facilities Other than Group E~~****~~Colleges, universities, adult centers, etc.~~* | *~~50~~* |
| ***Education*** *(classroom)**Through 12th grade* | *30* |
| ***Education*** *(classroom)**Beyond 12th grade* | *50* |
| ***Exercise*** *(fitness)* | *50* |
| ***~~Group F~~****~~Workshops, foundries and similar establishments~~* | *~~2,000~~* |
| ***Industrial*** *(fabrication, foundry, workshop, component assembly, repair)*  | *500* |
| ***~~Group H~~****~~Hazardous materials fabrication and storage~~* | *~~2,000~~* |
| ***Kitchen/food prep*** *(commercial)* | *50* |
| ***~~Group I~~****~~Hospital general use area, health care facilities~~* | *~~200~~* |
| ***Laboratory****Educational* | *50* |
| ***Laboratory****Non-educational* | *100* |
| ***Library*** | *50* |
| ***~~Group M~~****~~Retail or wholesale stores~~* | *~~200~~* |
| ***Mercantile*** *(wholesale, retail)* | *100* |
| ***Mall building*** *(covered/open)* | *See CBC 402.8.2* |
| ***~~Group R~~****~~Congregate residence, Group R-1~~* | *~~200~~* |
| ***Residential*** *(long term: central toilet facilities)* | *200* |
| ***~~Group S~~****~~Warehouse~~* | *~~5,000~~* |
| ***Warehouse****Storage portions* | *4000* |
| ***Warehouse****Distribution portions (selecting, processing, packing, receiving, shipping)* | *500* |

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

*\*\* For a 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 ~~(for example: hallway, restroom, stair enclosure)~~ such as, but not limited to, hallways/corridors, stairways, ramps, toilet rooms, mechanical rooms, closets and fixed equipment, may be excluded.*

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 5

## Chapter 5, Water Heaters

DSA proposes to adopt Chapter 5 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 6

## Chapter 6, Water Supply and Distribution

DSA proposes to adopt Chapter 6 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 7

## Chapter 7, Sanitary Drainage

DSA proposes to adopt Chapter 7 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 8

## Chapter 8, Indirect Waste

DSA proposes to adopt Chapter 8 of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 9

## Chapter 9, Vents

DSA proposes to adopt Chapter 9 of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 10

## Chapter 10, Traps and Interceptors

DSA proposes to adopt Chapter 10 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 11

## Chapter 11, Storm Drainage

DSA proposes to adopt Chapter 11 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 12

## Chapter 12, Fuel Gas Piping

DSA proposes to adopt Chapter 12 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 13

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

DSA proposes to not adopt Chapter 13 of the 2021 UPC into the 2022 CPC. This chapter is adopted by the Office of the State Fire Marshal (for fire and panic safety) and amended by the Office of Statewide Health Planning and Development.

DSA proposes to not adopt Chapter 14 of the 2021 UPC into the 2022 CPC. This is under the authority of the State Fire Marshal.

DSA proposes to not adopt Chapters 15 and 16 of the 2021 UPC. DSA did not adopt Chapters 15 and 16 in the 2018 edition of the UPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 14

## Chapter 17, Referenced Standards

DSA proposes to adopt Chapter 17 of the 2021 UPC with existing California amendments carried forward into the 2022 edition of the CPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 15

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

DSA proposes to adopt Appendix A of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 16

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

DSA proposes to adopt Appendix B of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 17

## Appendix C, Alternate Plumbing Systems

DSA proposes to not adopt Appendix C of the 2021 UPC into the 2022 edition of the CPC. DSA did not adopt Appendix C in the 2018 UPC.

**Notation: DSA-SS**

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 81147, Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 18

## Appendix D, Sizing Storm Water Drainage Systems

DSA proposes to adopt Appendix D of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 19

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

DSA proposes to not adopt Appendices E, F and G of the 2021 UPC into the 2022 edition of the CPC. DSA did not adopt Appendices E, F and G in the 2018 UPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 20

## Appendix H, Private Sewage Disposal Systems

DSA proposes to adopt Appendix H of the 2021 UPC into the 2022 edition of the CPC without amendment.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 21

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

DSA proposes to continue adoption of Appendix Chapter I, IAPMO IS 31-2014 only of the 2021 UPC without amendments into the 2022 CPC, and not adopt new 2021 UPC Appendix sections IAPMO IS 26-2019e2, IAPMO IS 33-2019e1 and TCNA Handbook-2018.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.

## Item 22

## Appendix 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 proposes to not adopt Appendices J, K, L, and M of the 2021 UPC into the 2022 edition of the CPC. DSA did not adopt Appendices J, K, L and M in the 2018 UPC.

**Notation: DSA-SS**

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 81147, and Health and Safety Code Sections 16000 through 16023.

**Notation: DSA-SS/CC**

Authority: Education Code Section 81053.

Reference(s): Education Code Sections 81052, 81053, and 81130 through 81147.