APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION
AUGUST 1, 2023

# FINAL EXPRESS TERMSFOR PROPOSED BUILDING STANDARDSOF THE CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENTREGARDING THE 2022 CALIFORNIA PLUMBING CODE,CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5(HCD 02/22)

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

* 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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*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 6 WATER SUPPLY AND DISTRIBUTION, Section 604.2 Lead Content.

The maximum allowable lead content in pipes, pipe fittings, plumbing fittings, and fixtures intended to convey or dispense water for human consumption shall be not more than…(No change to existing 2022 CPC text.)

*Note: See Sections 116875 and 116876 of the Health and Safety Code for the maximum lead content of pipes, pipe or plumbing fittings, or fixtures intended to convey or dispense water for human consumption.*

**Exceptions:** … (No change to 2022 CPC)

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691,18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3, 19960 through 19997, 116875 and 116876; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code

Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 2Chapter 6 WATER SUPPLY AND DISTRIBUTION, Section 605.9.1 Fittings.

(Associated with Item 5).

Fittings for PEX tubing shall comply with the applicable standards referenced in Table 604.1. PEX tubing that complies with ASTM F876 shall be marked with the applicable standard designation for the fittings, specified by the tubing manufacturer for use with the tubing. *Brass fittings used with PEX tubing shall meet* *or exceed NSF 14~~-2009~~ standards to prevent dezincification* *and stress crack corrosion. …*

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11 and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 3Chapter 6 WATER SUPPLY AND DISTRIBUTION, Section 610.5 Sizing per Appendices A and C.

(Associated with Item 7).

**610.5 Sizing per Appendices A, ~~and~~ C*, and M.*** Except as provided in Section 610.4, the size of each water piping system shall be determined in accordance with the procedure set forth in Appendix A. For alternat~~e~~ive methods of sizing water supply systems, see Appendix C *or Appendix M.*

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 4Chapter 15 ALTERNATE WATER SOURCES FOR NONPOTABLE APPLICATIONS, Section 1501.9.1 Commercial, Industrial, Institutional*,* and ResidentialRestroom Signs; and Section 1501.9.2 Equipment Room Signs.

***1501.9.1 Commercial, Industrial, Institutional, and Residential Restroom Signs.*** A sign shall beinstalled in restrooms in commercial, industrial, andinstitutional occupancies *and in residential common use**areas* using ~~reclaimed (recycled) water and~~ on-sitetreated *nonpotable gray* water, for water closets, urinals,or both. *Signs shall comply with all applicable requirements**of the California Building Code. …*(No change to existing 2022 CPC text.)

***1501.9.2* Equipment Room Signs.** Each room containing ~~reclaimed (recycled) water and~~ on-site treated *nonpotable gray* water equipment shall have a sign posted in a location that is visible to anyone working on or near nonpotable *gray* water equipment with the following wording in 1-inch (25.4 mm) letters:

CAUTION: *ON-SITE TREATED NONPOTABLE GRAYWATER*, DO NOT DRINK. DO NOT CONNECT TO DRINKING WATER SYSTEM. NOTICE: CONTACT BUILDING MANAGEMENT BEFORE PERFORMING ANY WORK ON THIS WATER SYSTEM.

~~\*\_\_\_\_\_\_\_\_\_\_\_\_\*Shall indicate RECLAIMED (RECYCLED) WATER or ON-SITE TREATED WATER, accordingly.~~

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 5Chapter 17 REFERENCED STANDARDS, Table 1701.1 Referenced Standards.

 (Associated with Item 2).

**Table 1701.1**

**REFERENCED STANDARDS**

| **STANDARD NUMBER** | **STANDARD TITLE** | **APPLICATION** | **REFERENCED SECTIONS** |
| --- | --- | --- | --- |
| **…** |  |  |  |
| NSF 14-2018 | Plastics Piping System Components and Related Materials | Miscellaneous | 301.2.3, 604.1, *605.9.1* |
| **…** |  |  |  |

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 6APPENDIX A RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM, Section A 103.1 Supply Demand.

 (Associated with Item 7).

Estimate the supply demand for the building main, the principal branches and risers of the system by totaling the fixture units on each, Table A 103.1, and then by reading the corresponding ordinate from Chart A 103.1(1) or Chart A 103.1(2), whichever is applicable. (No change to model code text or 2022 CPC).

***Exception****: For the applicable fixtures, the supply demand flow rate values calculated using Appendix M may be substituted for the flow rates calculated using the fixture units in Table A 103.1 and Chart A 103.1(1) or Chart A 103.1(2), whichever is applicable.*

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.

### ITEM 7APPENDIX M PEAK WATER DEMAND CALCULATOR, Section M 101.1 Applicability and Table M 102.1 Design Flow Rate for Water Conserving Plumbing Fixtures and Appliances in Residential Occupancies.

 (Associated with Items 3 and 6). HCD proposes to adopt Appendix M from the 2021 Uniform Plumbing Code into the 2022 CPC with amendments as follows:

**Section M 101.1 Applicability.**

This appendix provides ~~a~~ *an alternative* method for estimating the demand load for the building water supply and principal branches for single- and multi-family dwellings with water-conserving plumbing fixtures, fixture fittings, and appliances.

**Table M 102.1. Design Flow Rate for Water Conserving Plumbing Fixtures and Appliances in Residential Occupancies.**

**TABLE M 102.1**

**DESIGN FLOW RATE FOR WATER-CONSERVING PLUMBING FIXTURES AND APPLIANCES IN RESIDENTIAL OCCUPANCIES**

| **FIXTURE AND APPLIANCE** | **MAXIMUM DESIGN FLOW RATE****(gallons per minute)** |
| --- | --- |
| Bar Sink | 1.5 |
| Bathtub | 5.5 |
| Bidet | 2.0 |
| Clothes Washer~~\*~~ | 3.5 |
| Combination Bath/Shower | 5.5 |
| Dishwasher~~\*~~ | 1.3 |
| Kitchen Faucet |  ~~2.2~~ *1.8* |
| Laundry Faucet (with aerator) | 2.0 |
| Lavatory Faucet | ~~1.5~~ *1.2* |
| Shower, per head | ~~2.0~~ *1.8*  |
| Water Closet, 1.28 GPF Gravity Tank | 3.0 |

For SI units: 1 gallon per minute = 0.06 L/s

~~\*~~ ~~Clothes washers and dishwashers shall have an energy star label.~~

**Notation:**

Authority: Health and Safety Code Sections 17040, 17920.9, 17921, 17921.5, 17921.10, 17922, 17922.12, 17922.14, 17928, 18552, 18554, 18620, 18630, 18640, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18938.3, 18944.11, and 19990; and Government Code Sections 12955.1 and 12955.1.1.

Reference(s): Business and Professions Code Division 5; Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, 18938.3 and 19960 through 19997; Civil Code Sections 1101.3, 1101.4, 1101.5, 1954.201 and 1954.202; and Government Code Sections 12955.1, 12955.1.1 and 65852.2; Water Code Sections 516 and 517; and California Code of Regulations, Title 20, Sections 1605.1, 1605.3 and 1607.