APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION   
AUGUST 1, 2023

# FINAL EXPRESS TERMS FOR PROPOSED BUILDING STANDARDS OF THE CALIFORNIA BUILDING STANDARDS COMMISSION REGARDING THE 2022 CALIFORNIA PLUMBING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5 (BSC 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, 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* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*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 1 Chapter 2 DEFINITIONS, Sections 209.0 and 218.0.

**Section 209.0, Definition of *Gray Water System***

***Gray Water System [BSC-CG].*** *A system designed to collect gray water ~~to be treated~~ on-site for reuse or distribution to an irrigation or disposal field. A gray water system may include, on-site treated nonpotable water devices or equipment, tanks, valves, filters, pumps or other appurtenances along with piping and receiving landscape.*

**Section 218.0, Definition of *Privacy Compartment***

***Privacy Compartment: [BSC]*** *A compartment enclosing a water closet or urinal provided with floor-to-ceiling pre-manufactured panels, continuous brackets at abutting panels, and a floor-to-ceiling door with continuous hinges and full height astragals. Privacy compartments may also be constructed with full-height walls and door with head jamb casing.*

**Notation:**

Authority: Health and Safety Code Sections 18934.5, 18940.5, 18941.8; Water Code Section 14877.1

Reference(s): Health and Safety Code Section 18934.5, 18940.5, 18941.8, SB 1194 (Chapter 839, Statutes of 2022)

### ITEM 2 Chapter 4 PLUMBING FIXTURES AND FIXTURE FITTINGS, Sections 422.1 Fixture Count, *422.1.1 Fixture Calculations, 422.1.2* Family or Assisted-Use Toilet and Bathing Facilities, and 422.2 Separate Facilities.

**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, 2, 3, 4 & 5]*** *and Table 4-2 and Table 4-3*. The total occupant load and occupancy classification shall be determined in accordance with the *California Building Code*. 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.*

***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. ***[BSC]*** *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. The substitution of a water closet for each urinal shall be permitted provided the total number of fixtures installed complies with Table 422.1.*

**~~422.1.1~~ *422.1.2*** **Family or Assisted-Use Toilet and Bathing Facilities.** Where family or assisted-use toilet and bathing rooms are required, in applicable building regulations, the facilities shall be installed in accordance with those regulations.

(renumber remaining sections)

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

**Exceptions *[Not adopted for OSHPD 1, 2, 3, 4, & 5]:***

(1) Residential installations.

(2) In occupancies with a total occupant load of 10 or less, including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.

(3) In business and mercantile occupancies with a total occupant load of 50 or less including customers and employees, one toilet facility, designed for use by no more than one person at a time, shall be permitted for use by both sexes.

*(4)* ***[BSC]*** *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.*

**Notation:**

Authority: Health and Safety Code Section 18934.5

Reference(s): Health and Safety Code Section 18934.5, SB 1194 (Chapter 839, Statutes of 2022)

### ITEM 3 Chapter 6 WATER SUPPLY AND DISTRIBUTION, Section 604.2 Lead Content.

**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 a weighted average of 0.25 percent with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures. For solder and flux, the lead content shall be not more than 0.2 percent where used in piping systems that convey or dispense water for human consumption.

*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 Section 18931, 18932

Reference(s): Health and Safety Code Section 18931, 18932, 116875, 116876

### ITEM 4 Chapter 6 WATER SUPPLY AND DISTRIBUTION, Section 605.9.1 Fittings.

**605.9.1 Fittings.** 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.* ***[OSHPD 1, 1R, 2, 3, 4 & 5]*** *Installation and use of PEX tubing shall be in accordance with manufacturer’s standards. PEX piping shall not be used for any application that would result in noncompliance with any provisions of the California Building Standards Code.*

**Notation:**

Authority: Health and Safety Code Section 18934.5

Reference(s): Health and Safety Code Section 18934.5

### ITEM 5 Chapter 15 ALTERNATE WATER SOURCES FOR NONPOTABLE APPLICATIONS, Section 1501.9.1 Commercial, Industrial, Institutional, and Residential Restrooms Signs and Section 1501.9.2 Equipment Room Signs

***1501.9 Signage [BSC-CG, HCD 1, HCD 2, HCD 1-AC].*** *Signage for on-site treated nonpotable gray water shall comply with Sections 1501.9.1 and 1501.9.2.* ***[DWR]*** *Signage for reclaimed (recycled) water shall comply with Section 1505.12.*

**1501.9*.1* Commercial, Industrial, Institutional*, and Residential* Restroom Signs.** A sign shall be installed in restrooms in commercial, industrial, and institutional occupancies *and in residential common use areas* using ~~reclaimed (recycled) water and~~ on-site treated *nonpotable gray* water, for water closets, urinals, or both. *Signs shall comply with all applicable requirements of the California Building Code.* Each sign shall contain 1⁄2 of an inch (12.7 mm) letters of a highly visible color on a contrasting background. The location of the sign(s) shall be such that the sign(s) are visible to users. The location of the sign(s) shall be approved by the Authority Having Jurisdiction and shall contain the following text:

TO CONSERVE WATER, THIS BUILDING USES *ON-SITE TREATED NONPOTABLE GRAYWATER* TO FLUSH TOILETS AND URINALS.

**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 18940.5, 18941.8; Water Code Section 14877.1

Reference(s): Health and Safety Code Section 18940.5, 18941.8

### ITEM 6 Chapter 17 REFERENCED STANDARDS, Table 1701.1 Referenced Standards.

**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* |
| NSF 42-2018 | Drinking Water Treatment Units – Aesthetic Effects | Appliances | 611.1 |
| NSF 44-2018 | Residential Cation Exchange Water Softeners | Appliances | 611.1 |

**Notation:**

Authority: Health and Safety Code Section 18934.5

Reference(s): Health and Safety Code Section 18934.5