

**INITIAL EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
REGARDING THE AMENDMENT OF THE
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11

(HCD XXX)**

The Department of Housing and Community Development (HCD) proposes to make necessary changes to be included into the 2016 edition of the California Green Building Standards Code (CALGreen) as presented on the following pages, including any necessary amendments.

LEGEND FOR EXPRESS TERMS:

1. **Existing California text or language being modified:** All language is shown in normal Arial 9 point; modified language is underlined or shown in ~~strikeout~~.
 4. **Text not being modified:** All language not displayed in full is shown as “...” (i.e., ellipsis).
 5. **Repealed text:** All language shown in ~~strikeout~~.
 6. **Notation:** Authority and Reference citations are provided at the end of each action.
-

1. HCD proposes to amend Chapter 2 as follows:

CHAPTER 2 DEFINITIONS

ALTERNATE WATER SOURCE. Nonpotable source of water that includes but is not limited to gray water, on-site treated nonpotable water, rainwater, and reclaimed (recycled) water.

DISINFECTED TERTIARY RECYCLED WATER. Filtered and subsequently disinfected wastewater that meets the approved method of treatment and minimum level of water quality specified in California Code of Regulations, Title 22, Division 4, Chapter 3 for the purpose of direct beneficial use.

ON-SITE TREATED NONPOTABLE WATER. Nonpotable water that has been collected, treated, and intended to be used on-site and is suitable for direct beneficial use. Sources for on-site treated nonpotable water include, but are not limited to, gray water; rainwater; stormwater; reclaimed (recycled) water; cooling tower blow-down water; and foundation drainage.

RECLAIMED (RECYCLED) WATER. (HCD) Nonpotable water that meets California Department of Public Health State Water Resources Control Board statewide uniform criteria for disinfected tertiary recycled water. Reclaimed (recycled) water is also known as “recycled water” or “reclaimed water”.

RECYCLED WATER SUPPLY SYSTEM. The building supply pipe, the water distribution pipes, and the necessary connecting pipes, fittings, control valves, backflow prevention devices, and all appurtenances carrying or supplying municipal recycled water in or adjacent to the building or premises.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17921, 17921.5, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1, and Water Code Section 14877.3, 13552.2, 13552.4, 13553.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

2. HCD proposes to amend Section 4.303 as follows:

SECTION 4.303 INDOOR WATER USE

4.303.1.3 Showerheads.

4.303.1.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than **2.0 1.8** gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

4.303.1.3.2 Multiple showerheads serving one shower. 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 1.8** 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.

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

3. **HCD proposes to amend Section 4.305 as follows:**

**SECTION 4.305
WATER REUSE SYSTEMS**

4.305.1 Recycled Water Supply Systems. All newly constructed residential buildings, where disinfected tertiary recycled water is available from a municipal source to the construction site, shall be provided with a recycled water supply system allowing for use of reclaimed (recycled) water. The recycled water supply system shall be installed to allow connection to all water closets, urinals, and landscape irrigation systems in accordance with Chapter 15 of the California Plumbing Code.

4. **HCD proposes to amend Section A4.305 as follows:**

**SECTION A4.305
WATER REUSE SYSTEMS
ALTERNATE WATER SOURCE SYSTEMS**

A4.305.1 Recycled water. All newly constructed single-family and multifamily residential buildings shall comply with Sections A4.305.1.1 or A4.305.1.2.

A4.305.1.1 Recycled water piping. (Tier 1) Where recycled water is within a planned service area and a specific implementation timeline, **exceeding 3 years**, for the provision of recycled water has been identified by the public water system in its most recent recycled water master plan, recycled water supply system allowing for future use of recycled water, when available, shall be provided at the following locations:

1. For landscape irrigation.
2. For all water closets and urinals.

Recycled water supply systems shall be designed and installed in accordance with the California Plumbing Code, and shall be capped, if not used, and identified by a sign containing the following text: "CAUTION: NON POTABLE RECLAIMED (RECYCLED) WATER, DO NOT DRINK" in accordance with the California Plumbing Code.

Exceptions:

- (1) Where access to disinfected tertiary recycled water is not feasible and/or cost-efficient, as determined by the Authority Having Jurisdiction.
- (2) Service areas in which only recycled water will be used for potable purposes, or in which net nonpotable deliveries are anticipated to remain level or decrease as a result of a potable reuse project.

A4.305.1.2 Recycled water supply system. (Tier 2) Recycled water is used for landscape irrigation **and/or** for all water closets and urinals in accordance with the California Plumbing Code.

A4.305.1 Graywater. Alternative plumbing piping is installed to permit the discharge from the clothes washer or other fixtures to be used for an irrigation system in compliance with the *California Plumbing Code*.

A4.305.2 Recycled water piping. Based on projected availability, dual water piping is installed for future use of recycled water at the following locations:

1. Interior piping for the use of recycled water is installed to serve all water closets, urinals and floor drains.
2. Exterior piping is installed to transport recycled water from the point of connection to the structure. Recycled water systems shall be designed and installed in accordance with the *California Plumbing Code*.

A4.305.2 Other alternate water sources for nonpotable application.

A4.305.2.1 Irrigation. Alternate water sources are used for irrigation, in compliance with the *California Plumbing Code*.

A4.305.2.2 Indoor application. Alternative water distribution line is installed to permit the use of on-site treated nonpotable gray water for all water closets and urinals, as allowed by the *California Plumbing Code*.

NOTE:

Authority Cited: Health and Safety Code Sections 17040, 17050, 17921, 17921.5, 17921.10, 17922, 17922.6, 17922.12, 17927, 17928, 17959.6, 18300, 18552, 18554, 18620, 18630, 18640, 18670, 18690, 18691, 18865, 18871.3, 18871.4, 18873, 18873.1, 18873.2, 18873.3, 18873.4, 18873.5, 18938.3, 18944.11, and 19990; and Government Code Section 12955.1, and Water Code Section 14877.3, 13552.2, 13552.4, 13553.

Reference: Health and Safety Code Sections 17000 through 17062.5, 17910 through 17995.5, 18200 through 18700, 18860 through 18874, and 19960 through 19997; and Government Code Sections 12955.1 and 12955.1.1.

5. HCD proposes to amend Section A4.601 as follows:

**SECTION A4.601
GENERAL**

A4.601.4.2 Prerequisite and elective measures for Tier 1. In addition to the mandatory measures, compliance with the following prerequisite and elective measures from Appendix A4 is also required to achieve Tier 1 status:

1. (No change to text)
2. (No change to text)
3. From Division A4.3, Water Efficiency and Conservation.
3.1. Comply with the Tier 1 requirement for recycled water piping in Section A4.305.1.1.
~~3.1.3.2.~~ 3.2. Comply with at least two elective measures selected from Division A4.3.
4. (No change to text)
5. (No change to text)

A4.601.5.2 Prerequisite and elective measures for Tier 2. In addition to the mandatory measures, compliance with the following prerequisite and elective measures from Appendix A4 is also required to achieve Tier 2 status.

1. (No change to text)
 2. (No change to text)
 3. From Division A4.3, Water Efficiency and Conservation.
3.1. Comply with the Tier 2 requirement for recycled water supply system in Section A4.305.1.2
~~3.1.3.2.~~ 3.2. Comply with at least three elective measures selected from Division A4.3.
 4. (No change to text)
 5. (No change to text)
-

6. HCD proposes to amend Section A4.602 as follows:

**SECTION A4.602
RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST**

To be amended to correspond with changes in Section A4.305.