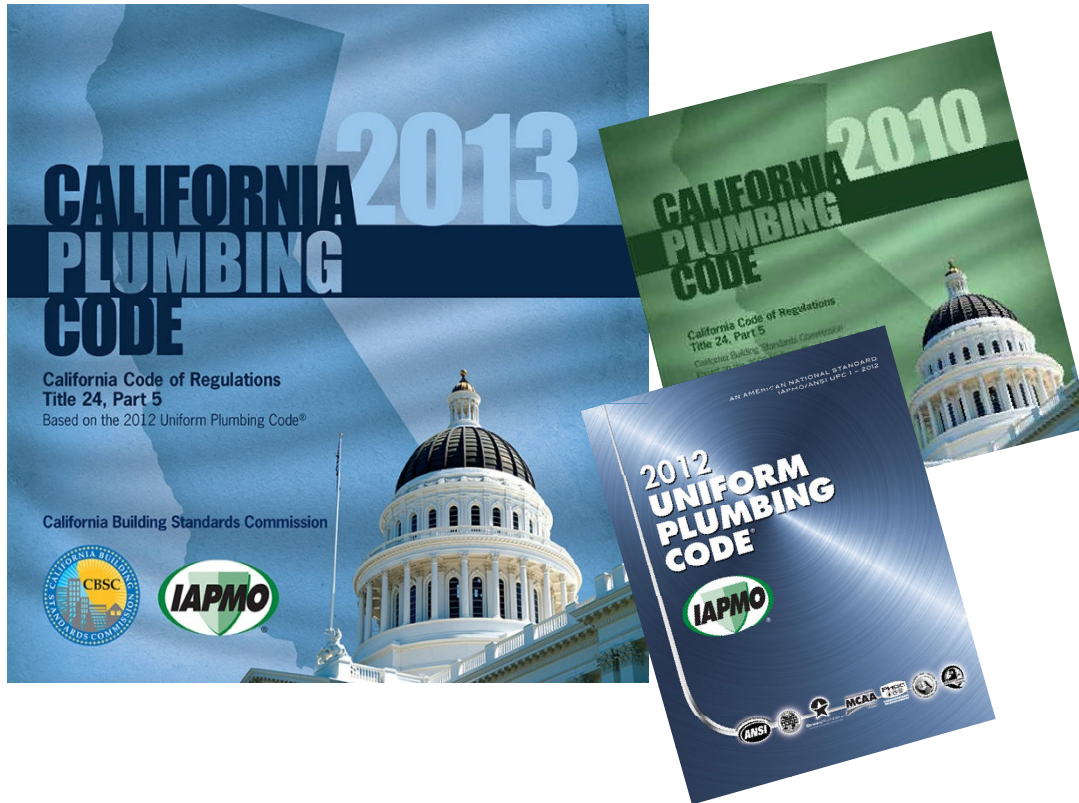

2013 California Plumbing Code Update



June 11, 2013
LA Chapter – WaterReuse

Triennial Code Adoption Cycle

- *2010 CA Plumbing Code (based on 2009 UPC)*
 - *Ch. 16A – Non-Potable Water Reuse Systems*
- **2013 CA Plumbing Code** (will be based on 2012 UPC)
 - **Ch. 16 – Alternate Water Sources for NonPotable Applications**
 - Applies to the use of alternate water sources
 - **Ch. 17 – Nonpotable Rainwater Catching Systems**
 - Regulates the system for collecting and storing rainwater

Triennial Code Adoption Schedule

- **Aug. 24, 2012** Public Review starts
- **Oct. 8, 2012** Public Review ends
- **Nov. 19, 2012** Agency Comments Due
- **Dec. 12, 2012** Commission Review Meeting
- **Jan. 10, 2013** CBSC action meeting
 - Adoption and approval of proposed code changes
- **Jul. 1, 2013** Title 24 Publication Date
- **Jan. 1, 2014** Title 24 Statewide Effective date of the 2013 CBSC.

Ch. 16 – Alternate Water Sources for NonPotable Applications

- Authority Having Jurisdiction (1601.2 System Design)
 - May require plans for alt. water sources for non-potable applications

- NSF 350 for onsite water reuse systems (1401.1)
 - NSF 350 is applicable in absence of WQ reqs (1601.7)

- Color and Marking per 601.2.2 (no change from 2010 CPC)
 - Non-potable water systems: yellow background w/ black lettering
 - Not adopting 1603.0 Recycled Water

Ch. 16 – Alternate Water Sources for NonPotable Applications (continued)

- **Gray Water Systems (1602):**
 - Consult local public health department (1601.3 Permit)
 - Not required on clothes washer systems (1602.1.1)
 - A city, county or other local government may adopt building standards that are more restrictive requirements (1602.1)
 - Gray water shall not be used in spray irrigation (1602.1C)

Ch. 16 – Alternate Water Sources for NonPotable Applications *(continued)*

- **Gray Water Systems (1602):**
 - ***Protected*** connections from either Potable or Recycled Water Systems may be allowed to supplement gray water systems:
 - Protected by either an AG or RP (1602.1 L)
 - Potable, on-site treated non-potable, recycled, or rain water systems may be allowed as ***makeup water*** to non-pressurized gray water tanks:
 - Protected by an either AG or RP (1602.3, 1604.4)

Ch. 16 – Alternate Water Sources for NonPotable Applications (continued)

- **Gray Water Systems (1602):**
 - Onsite treated gray water and potable in same trench
 - 12” vertical and 12” horizontal separation (1604.10.4)
 - Initial inspection and cross connection test required (1604.12.2)
 - Removes requirement for Annual Testing (1604.12.2)
 - Complex gray water system (>250 gallons) shall require a permit and consult water purveyor (1602.1.3)

Ch. 17 – NonPotable Rainwater Catchment Systems

- Permit is not required for exterior systems (1702.2.1):
 - Non-spray w/ max. storage of 5,000 gallons
 - Spray w/ max. storage of 360 gallons

- *Protected* connections to the **Potable** or **Recycled Water** Systems may be allowed
 - Permitted provided they are protected with AG or RP (1702.4)

- Surface runoff shall be treated
 - Per 1604.0 of Gray Water reqs (1702.9.3)

Ch. 17 – NonPotable Rainwater Catchment Systems (continued)

- Inspection and Testing:
 - Initial inspection and cross connection test (1702.11.2)
 - Removes requirement for Annual Testing (1702.11.2)

- **Color and Marking** per 601.2.2
 - no change from 2010 CPC
 - Non-potable water systems: yellow background w/ black lettering
 - Not adopting Section 1603.0 Recycled Water

- Not adopting Potable Rainwater Catchment System (App. K)

Public Comments to Housing and Community Development (HCD) (Nov. 2012)

- Sections 1604.4 and 1702.4:
 - Title 17 does not permit any connection at all between an alternate water system and a potable water system. An air gap is the only way to convey potable water to an alternate water system.
 - Title 17 requires an air gap unless an RP device is allowed by the water supplier and the local health agency.

➤ *Not addressed by 2013 CPC*

Public Comments to Housing and Community Development (HCD) (Nov. 2012)

- Section 601.2: Regarding identification requirements for potable and non-potable water systems.
 - Section 601.2 could lead to cross connections between different water systems.

➤ *Addressed by 2013 CPC*

Final Rulemaking Documents to IAPMO

- California Building Standards Commission (BSC) Final Express Terms, Title 24, Part 5 California Plumbing Code
 - http://www.documents.dgs.ca.gov/bsc/prpsd_chngs/documents/2012/BSC-05-12-ET-Pt5-Final.pdf
- Department of Housing and Community Development (HCD) Final Express Terms, Title 24, Part 5 California Plumbing Code
 - http://www.documents.dgs.ca.gov/bsc/prpsd_chngs/documents/2012/HCD-05-12-FET-Pt5.pdf

Michael L. Nearman
Deputy Executive Director
California Building Standards Commission
(916) 263-5888
Michael.Nearman@dgs.ca.gov

