2013 California Plumbing Code Update

June 11, 2013
LA Chapter – WateReuse

Kraig J. Erickson, P.E.
RMC Water and Environment
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 Non-Potable 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)
• 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:
  1. Title 17 does not permit any connection at all between a alternate water system and a potable water system. An air gap is the only way to convey potable water to an alternate water system.
  2. 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

- Department of Housing and Community Development (HCD) Final Express Terms, Title 24, Part 5 California Plumbing Code

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