

### **543.FACILITY AND DESIGN STANDARDS - CROSS CONNECTION CONTROL.**

There shall be no connection between the distribution system and any pipes, pumps, hydrants, water loading stations, or tanks whereby unsafe water or other contaminating materials may be discharged or drawn into a public water system. The water purveyor is responsible through its cross connection control program to take reasonable and prudent measures to protect the water system against contamination and pollution from cross connections through premise isolation or containment, internal or in-plant isolation, fixture protection, or some combination of premise isolation, internal isolation, and fixture protection. (5-8-09)

**01. Testable Assemblies.** All double check valve backflow prevention assemblies, reduced pressure principle backflow prevention assemblies, spill resistant vacuum breakers, and pressure vacuum breakers used must pass a performance test conducted by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research. In addition all double check valve backflow prevention assemblies and reduced pressure principle backflow prevention assemblies used shall meet American Water Works Association (AWWA) Standards C-510 or C-511, incorporated by reference into these rules at Subsection 002.01, or an equivalent standard approved by the Department. (5-8-09)

**02. Atmospheric Vacuum Breakers.** All atmospheric vacuum breakers used shall be marked approved either by the International Association of Plumbing and Mechanical Officials (IAPMO) or by the American Society of Sanitation Engineers (ASSE). (5-8-09)

**03. Resilient Seated Shutoff Valves.** Resilient seated shutoff valves shall be used when double check valve backflow prevention assemblies, reduced pressure principle backflow prevention assemblies, and pressure vacuum breakers are installed. (3-30-07)

**04. Assembly Selection.** Appropriate and adequate backflow prevention assemblies for various facilities, fixtures, equipment, and uses of water must be selected either from the Pacific Northwest Cross Connection Control Manual, the Uniform Plumbing Code, the Environmental Protection Agency's Cross Connection Control Manual, the USC Manual of Cross Connection Control or other sources deemed acceptable by the Department. The selected assembly must comply with local ordinances. (5-8-09)

### **552.FACILITY AND DESIGN STANDARDS: OPERATING CRITERIA FOR PUBLIC WATER SYSTEMS.**

**06. Cross Connection Control Program - Community Water Systems.** The water purveyor is responsible through its cross connection control program to take reasonable and prudent measures to protect the water system against contamination and pollution from cross connections through premise isolation, internal or in-plant isolation, fixture protection, or some combination of premise isolation, internal isolation, and fixture protection. Pursuant to Section 543, all suppliers of water for community water systems shall implement a cross connection control program to prevent the entrance to the system of materials known to be toxic or hazardous. The

water purveyor is responsible to enforce the system's cross connection control program. The program will at a minimum include: (5-8-09)

**a.** An inspection program to locate cross connections and determine required suitable protection. For new connections, suitable protection must be installed prior to providing water service. (5-8-09)

**b.** Required installation and operation of adequate backflow prevention assemblies. Appropriate and adequate backflow prevention assemblies for various facilities, fixtures, equipment, and uses of water must be selected from either the Pacific Northwest Cross Connection Control Manual, the Uniform Plumbing Code, the Environmental Protection Agency's Cross Connection Control Manual, the USC Manual of Cross Connection Control, or other sources deemed acceptable by the Department. The assemblies must comply with local ordinances. (5-8-09)

**c.** Annual inspections and testing of all installed backflow prevention assemblies by a tester licensed by a licensing authority recognized by the Department. Testing shall be done in accordance with the test procedures published by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research. See the USC Manual of Cross-Connection Control referenced in Subsection 002.02. (3-30-07)

**d.** Discontinuance of service to any facility where suitable backflow protection has not been provided for a cross connection. (3-30-07)

**07. Cross Connection Control Program - Non-Community Water Systems.** All suppliers of water for non-community water systems shall ensure that cross connections do not exist or are isolated from the potable water system by an approved backflow prevention assembly. Backflow prevention assemblies shall be inspected and tested annually for functionality by an Idaho licensed tester, as specified in Subsection 552.06.c. (5-8-09)