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## RESOLUTION NO. 97-1

### THE BOARD OF COMMISSIONERS OF THE RIVERSIDE WATER DISTRICT ORDAIN AS FOLLOWS:

Pursuant to 333-61-070 of the Oregon Cross Connection Control Requirements, January 7, 1994, it is the responsibility of Riverside Water District to protect its drinking water by instituting and enforcing a cross connection control program.

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#### 1:01 Purpose:

The purpose of these regulations is to protect the water consumers and the potability of the water supply of Riverside Water District from contamination or pollution due to any existing or potential cross connections.

#### 1:02 Definitions:

- (1) "The District" means Riverside Water District".

- (2) **“Cross Connection”** means any physical arrangement where a public water system is connected, directly or indirectly, with any other water system or auxiliary system, sewer, drain, conduit, swimming pool, storage reservoir, plumbing fixture, swamp coolers, or any other device which contains, or may contain, contaminated water, sewage, or other liquid of unknown or unsafe quality which may be capable of imparting contamination to the public water system as a result of backflow. Bypass arrangements, jumper connection, removable sections, swivel or change over devices, or other temporary or permanent devices through which, or because of which, backflow may occur are considered to be cross connections.
- (3) **“Backflow”** means the flow in the direction opposite to the normal flow or the introduction of any foreign liquids, gases, or substances into the water distribution system of “The District”.
- (4) **“Auxiliary Supply”** means any water source or system other than “The District” that may be available on the user’s premises.
- (5) **“Approved Assembly”** means a device to counteract back pressures or prevent back siphoning. This device must appear on the list of approved devices issued by the Oregon State Department of Health.
- (6) **“Reduced Pressure Principle Assembly” (RPPA)**, shall mean an approved assembly containing two independently acting approved check valves together with a hydraulically-operated, mechanically independent pressure differential relief valve located between the check valves and at the same time below the first check valve. The device shall include properly located test cocks and be installed as a unit with, and between, two tightly closing resilient seated shutoff valves.
- (7) **“Double Check Valve Assembly” (DCVA)**, shall mean an approved assembly consisting of two independently operating check valves, loaded to the closed position by springs or weights, and installed as a unit with, and between, two resilient seated shutoff valves and having suitable connections for testing.
- (8) **“Air Gap”** shall mean approved physical separation between the free flowing discharge end of a potable water supply pipeline, and the overflow rim of an open or non-pressure receiving vessel. These separations must be vertically orientated a distance of at least twice the diameter of the inlet pipe, but never less than 1" (one inch).
- (9) **“Premises”** means any piece of land to which water is provided, including all structures, improvements, mobile home(s), and structures located on it.

**1:03 Cross Connections Regulated:**

No cross connections shall be created, installed, used or maintained within the service boundaries served by "The District" except in accordance with these regulations.

**1:04 Backflow Prevention Assembly Requirements:**

Approved backflow prevention assemblies, double check valves shall be installed at the expense of "The District" on all service connections. Any potential hazard on a premise that requires a higher level of backflow protection than the devices provided by "The District" will be installed at the expense of the user. The necessity for any additional backflow prevention control will be determined at the discretion of "The District" and The Oregon Health Department in each of the following circumstances:

- (1) If the nature and extent of any activity on the premises, or the materials used in connection with any activity on the premises, or materials stored on the premises, could contaminate or pollute the drinking water in any way.
- (2) On premises having any one or more cross connections as that term is defined in Section 1:02, Paragraph 2.
- (3) Internal cross connections that are not correctable, or intricate plumbing arrangements which make it impractical to ascertain whether or not cross connections exist.
- (4) A repeated history of cross connections being established or re-established.
- (5) Unduly restricted entry so that inspections of cross connections cannot be made with sufficient frequency or with sufficient notice to assure that cross connections do not exist.
- (6) Materials of a toxic or hazardous nature being used such that, if back siphoning should occur, a health hazard could result.
- (7) Any mobile apparatus which uses water from "The System" or water from any premises within the system service boundaries.
- (8) Any irrigation system.
- (9) Any fire service and/or fire sprinkler.
- (10) All unified plumbing codes must be maintained.

- (11) All construction served by "The District," new, remodel, commercial, business, industrial, and private homes shall submit their plans to "The District" for review and determination of the necessity of an assembly.
- (12) On any premise where installation of an approved backflow prevention device is deemed to be necessary to accomplish the purpose of these regulations in the judgement of certified cross connection control specialists employed by "The District".

### **1:05 Installation Requirements:**

To ensure proper operation and accessibility of all backflow prevention assemblies, the following requirements shall apply to the installation of these devices.

- (1) No part of the backflow prevention assembly shall be submerged in water or installed in a location subject to flooding. If installed in a vault or basement, adequate drainage shall be provided.
- (2) Assemblies must be installed at the point of use. Alternate locations must be approved in writing by "The District" prior to installations.
- (3) The assembly must be protected from freezing and other severe weather conditions. District provided insulation will not be degraded.
- (4) All backflow prevention assemblies to be installed shall be a type and model pre-approved by the Oregon State Department of Health and "The District".
- (5) The assembly shall be readily accessible with adequate room for maintenance and testing. Devices 2" (two inch) and smaller shall have at least 6" (six inch) clearance on all sides of the device.
- (6) Reduced Pressure Principle Assemblies may be installed in a vault only if relief valve discharge can be drained to daylight through a "bore-sight" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device and shall be screened on both sides.
- (7) An approved air gap shall be located at the relief valve orifice. This air gap shall be at least twice the inside diameter of the incoming supply line as measured vertically above the top rim of the drain and in no case less than 1" (one inch).

- (8) Where a backflow device is deemed necessary, the model of the assembly and installation plans shall be submitted to "The District" for approval prior to installation.
- (9) Upon completion of installation, "The District" shall be notified and all devices must be inspected and tested. All backflow devices must be registered with "The District". Registration shall consist of date of installation, make, model, and serial number of the backflow device, and initial test report.

Any variances from these installation requirements shall be requested in writing by the owner and approved by "The District" prior to device installation.

**1:06 Access to Premises:**

Authorized employees of "The District" with proper identification shall have access during reasonable hours to all parts of a premise and within the building to which water is supplied. However, if any water user refuses access to a premise or to the interior of a structure at reasonable times and on reasonable notice for inspection by a cross connection specialist appointed by "The District" a reduced pressure principle assembly will be required to be installed at the service connection to that premise.

**1:07 Annual Testing and Repairs:**

All backflow assemblies within "The District" will be tested annually by a State Certified Tester. The cost of testing the double check valves provided by "The District" will be paid for by user. Where "The District" has required the user to install a device to protect against a greater potential health risk, the device will be tested annually at the user's expense. All such devices found not functioning properly shall be repaired or replaced by the party responsible for the cost of the installation. If any device installed by the user is not promptly repaired or replaced, "The District" may deny or discontinue water service to the premise.

**1:08 Maintenance of Assemblies:**

The double check valves provided and installed by "The District" will be maintained by "The District" in a manner to prevent the assemblies from freezing and flooding. Annual testing is not considered "maintenance" for the purpose of this resolution.

**1:09 Thermal Expansion:**

It is the responsibility of the property owner to eliminate the possibility of thermal expansion. "The District" accepts no responsibility for property damage or loss due to thermal expansion following the installation of the devices provided by "The District" or the devices installed by the user.

**1:10 Pressure Loss:**

"The District" is not responsible for possible pressure loss due to the installation of any backflow prevention assembly. "The District" will consider a better design, if possible, if there is a significant loss of pressure. "The District" will supply as much pressure as is available to the service connection. Property owners that choose to build at the highest elevations within "The District" boundaries are responsible for all additional costs that might be incurred to increase water pressure on the premise.

**1:11 Rental Property:**

All residential and commercial properties occupied by persons other than the owner shall be governed equally by the regulations contained within Resolution No. 97-1. The property owner will be responsible for all expenses of the water service, backflow assembly, and any and all damage to the service connection or other property of "The District" that might occur from the acts of a tenant, friend, associate, or anyone not authorized by "The District".

**1:12 Enforcement and Penalties:**

All expenses incurred by "The District" and associated with the enforcement of Resolution 97-1 will be paid by the user to "The District" within thirty (30) days. Failure to provide payment will force "The District" to turn off the water and lock the valve at the service connection. The water will not be turned on again until all the expenses incurred by "The District" are paid, plus a payment of \$50 for turning the water off and on. Failure on the part of any customer to discontinue the use of all cross connections, except in accordance with this resolution, is sufficient cause for the immediate discontinuance of public water service to the premises. (OHD 333-61-070) (ORS 264.315) {1985}

**1:13 Costs of Compliance:**

All costs associated with installation, inspections, testing, replacement, maintenance, parts, and repairs of the backflow devices that are purchased by the user as required by "The District" are the financial responsibility of the user. All costs associated with the backflow assemblies provided by "The District" are the responsibility of "The District," with the exception of annual required testing.


**1:14 Constitutionality and Saving Clause:**

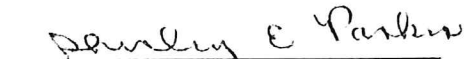
That if any provision, section, sentence, clause, or phrase of this Resolution or the application of same to any person or set of circumstances are for any reason held to be unconstitutional, void, invalid, or for any reason unenforceable, the validity of the remaining portions of this Resolution or its application to other persons or circumstances shall not be affected, thereby it being the intent of the Board of Commissioners of Riverside Water District, in adopting and approving this Resolution, that no portion herein or provision or regulation contained herein, shall become inoperative or fail by reason of any unconstitutionality or invalidity of any other portion, provision, or regulation.

**1:15 Effective Date:**

Resolved by the Board of Commissioners, this 20 day of MARCH, 1997.

  
**Jock Stewart, Chairman of the Board**

  
**Robert Benson, Commissioner**

  
**Shirley Parker, Commissioner**

  
**Ronald Ott, Commissioner**

NOT AVAILABLE.  
**Richard Milne, Commissioner**