

Willamette Water Co.

"A Water Utility"
SPRINGFIELD, OREGON 97477

41-01388

OFFICE - 330 S. 3RD ST.

TELEPHONE - 747-7197

WILLAMETTE WATER COMPANY CROSS CONNECTION ORDINANCE

Pursuant to Chapter 333, Division 61 of the Oregon Administrative Rules, it is the responsibility of Willamette Water Company to protect its drinking water by instituting and enforcing a cross connection program.

Contents:	1:01	Definitions
	1:02	Purpose
	1:03	Cross Connections Regulated
	1:04	Backflow Prevention Assembly Requirements
	1:05	Installation Requirements & Instructions
	1:06	Access to Premises
	1:07	Annual Testing and Repairs
	1:08	Cost of Compliance
	1:09	Termination of Service
	1:10	Effective Date

1:01 DEFINITIONS

- (1) "W.W.C." means "Willamette Water Company".
- (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 cooler, 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 connections, removable sections, swivel or changeover device, 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 Willamette Water Company.
- (4) "Auxiliary supply" means any water source or system, other than the W.W.C. water system, that may be available in the building or on the premises.

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(5) "Approved assembly" means a device to counteract back pressures or prevent backsiphonage. This device must appear on the list of approved devices issued by the Oregon State Health Division.

(6) Reduced pressure principle assembly" 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 tightly closing shut off valves at the end of the assembly.

(7) "Pressure Vacuum Breaker Assembly" means an approved assembly consisting of a spring loaded check valve loaded to the closed position, an independently operating air inlet valve loaded to the open position and installed as a unit with and between two resilient seated shutoff valves and with suitable connections for testing. It is designed to protect against backsiphonage only.

(8) "Double Check Valve Assembly" means 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.

(9) "Premises" means any piece of land to which water is provided including all structures, improvements, mobile homes and structure located on it.

1:02 PURPOSE

The purpose of these regulations is to protect the water supply of Willamette Water Company from contamination or pollution due to any existing or potential cross connections.

1:03 CROSS CONNECTIONS REGULATED

No cross connections shall be created, installed, used or maintained within the territory served by Willamette Water Company, except in accordance with these regulations.

1:04 BACKFLOW PREVENTION ASSEMBLY REQUIREMENT

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Approved backflow prevention assemblies shall be installed at the expense of the user, either at the service connection or within the premises, as determined by a Willamette Water Company certified water operator 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 supply in any way.
- (2) On premises having any one or more cross connections as that term is defined in Section 1:01 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 for 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 siphonage should occur, a health hazard or damage to Willamette Water Company could result.
- (7) Any mobile apparatus which uses the W.W.C. system or water from any premises within the W.W.C. system.
- (8) All Uniform Plumbing Codes must be maintained.
- (9) All new construction shall submit their plans to Willamette Water Company for review and determination of the necessity of a backflow prevention device.
- (10) On any premise where installation of an approved backflow prevention device is deemed to be necessary to accomplish the purpose of the regulations, in the judgment of a certified cross connection specialist hired by Willamette Water Company.
- (11) On any premise where an appropriate cross connection report form has not been filed with the office of W.W.C.

1:05 INSTALLATION REQUIREMENTS

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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 delivery of the water supply, before any branch in the line, or private property located just inside of the property line. Alternate locations, such as inside of a house, must be approved in writing by W.W.C. prior to installation.
- (3) The assembly must be protected from freezing and other severe weather conditions by the customer or by the owner of the property.
- (4) All backflow prevention assemblies to be installed shall be of a type and model preapproved by the State of Oregon Health Division and Willamette Water Company.
- (5) Only assemblies specifically approved by the Oregon Health Division for vertical installation may be installed vertically.
- (6) The assembly shall be readily accessible with adequate room for maintenance and testing. Devices two (2) inches and smaller shall have at least six (6) inches of clearance on all sides of the device. All devices larger than two (2) inches shall have a minimum clearance of twelve (12) inches on the back side, twenty-four (24) inches on the test cock side, twelve (12) inches below the device, and thirty-six (36) inches above the device.
- (7) If written permission is granted by W.W.C. to install the backflow prevention assembly inside of the building, the assembly shall be readily accessible during regular working hours.
- (8) If an assembly is installed inside of the premises, with written permission, and is four (4) inches or larger and is installed four (4) feet above the floor, it must be equipped with a rigidly and permanently installed scaffolding acceptable to W.W.C. This installation must also meet the requirements set out by the U.S. Occupational Safety and Health Administration and the State of Oregon Occupational Safety and Health Codes.

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(9) Reduced Pressure Principle Assemblies may be installed in a vault only if relief valve discharge can be drained to daylight through a "bore-sighted" type drain. The drain shall be of adequate capacity to carry the full rated flow of the device and shall be screened on both ends.

(10) 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 one (1) inch.

(11) Where a backflow device is deemed necessary, the model of assembly and installation plans shall be submitted to W.W.C. for approval prior to installation.

(12) Upon completion of installation, W.W.C. shall be notified and all devices must be registered, inspected, and tested. Registration with the State Board of Health shall consist of date of installation, make model, serial number of the backflow device, and initial test report.

(13) An air gap is not an approved means of cross connection protection.

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

1:06 ACCESS TO PREMISES

Authorized employees of W.W.C., with proper identification, shall have access during reasonable hours to the premise and within the building to which water is supplied. If any water user refuses access to a premise for inspection by a cross connection specialist appointed by W.W.C., a reduced pressure principle assembly shall be required to be installed at the service connection to that premise.

1:07 ANNUAL TESTING AND REPAIRS

All backflow assemblies installed within the territory served by W.W.C. shall be tested immediately upon installation and annually thereafter by a state certified tester. All such devices found not functioning properly shall be promptly repaired or replaced by the water user. If any such device is not promptly repaired or replaced, W.W.C. may deny or discontinue water to the premise. All testing and repairs of backflow assemblies are the financial responsibility of the water user.

1:08 COST OF COMPLIANCE

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All costs associated with purchase, installation, inspections, testing, replacement, maintenance, parts, and repairs of the backflow device are the financial responsibility of the water user.

1:09 TERMINATION OF SERVICE

Failure on the part of any customer to discontinue the use of all cross connections except in accordance with this ordinance is sufficient cause for the immediate discontinuance of water service to the premises.

1:10 EFFECTIVE DATE

Accepted by the Board of Directors this 15th day of May 1992.

Signed by the President of Willamette Water Company this 15th day of May 1992.


JAMES I. CARTER, President