

## CHAPTER 2

**CROSS-CONNECTION CONTROL**

## SECTION:

- 8-2-1: Purpose And Scope
- 8-2-2: Definitions
- 8-2-3: Cross-Connections
- 8-2-4: Backflow Prevention Devices Required
- 8-2-5: Cross-Connection Inspection
- 8-2-6: Installation Permit Required
- 8-2-7: Additional Remedies
- 8-2-8: Violation; Penalty

8-2-1: **PURPOSE AND SCOPE:** The purpose of this Chapter is to protect the public health of water consumers by the control of actual and/or potential cross-connections. (Ord. 288-2, 2-10-1987)

8-2-2: **DEFINITIONS:** As used in this Chapter, the following words and terms shall have the meanings ascribed to them in this Section:

**BACKFLOW:** The flow, other than the intended direction of flow, of any foreign liquids, gases or substances into the distribution system of a public water supply.

**BACKFLOW PREVENTION DEVICE:** A device to counteract back pressure or prevent back siphonage.

**CONTAMINATION:** The entry into or presence in a public water supply of any substance which may be deleterious to health and/or quality of the water.

**CROSS-CONNECTION:** Any physical arrangement whereby a public water supply is connected, directly or indirectly,

with any other water supply system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture or other device which contains or may contain contaminated water, sewage or other waste or liquids of unknown or unsafe quality which may be capable of imparting contamination to the public water supply as a result of backflow.

**DIRECTOR:** The Director of the Idaho Department of Health and Welfare, or his or her designee.

**PUBLIC WATER SUPPLY:** Any system or water supply intended or used for human consumption or other domestic uses, including source, treatment storage, transmission and distribution facilities, where water is furnished to any collection or number of individuals or is made available to the public for human consumption or domestic use.

**PURVEYOR:** The City of Rathdrum, Idaho, or its authorized agent. (Ord. 288-2, 2-10-1987)

**8-2-3: CROSS-CONNECTIONS:**

- A. **Prohibited:** No water service connection to any premises shall be installed or continued in use by the Purveyor unless the water supply is protected by backflow prevention devices as may be required by this Chapter and the Idaho Regulations for Public Drinking Water Systems, Idaho Department of Health and Welfare, Division of Environment, section 1-8306. The installation or maintenance of a cross-connection which will endanger the water quality of the potable water supply of the City shall be unlawful and is prohibited.
- B. **Nuisance Declared:** Any such cross-connection now existing or hereafter installed is hereby declared to be a public nuisance and the same shall be abated.
- C. **Control And Elimination:** The control or elimination of cross-connections shall be in accordance with this Chapter and the Idaho Regulations for Public Drinking Water Systems, Idaho Department of Health and Welfare, Division of Environment, section 1-8306, together with the latest edition of appropriate manuals of standard

practice pertaining to cross-connection control approved by the Director.

- D. Authority Of City: The City shall have the authority to establish requirements more stringent than State regulations if it deems that the conditions so dictate. Further, the Purveyor shall adopt rules and regulations as necessary to carry out the provisions of this Chapter. (Ord. 288-2, 2-10-1987)

**8-2-4: BACKFLOW PREVENTION DEVICES REQUIRED:**

- A. Circumstances Requiring: Backflow prevention devices shall be installed at the ties on the premises or the materials used in connection with service connection or within any premises where, in the judgment of the Purveyor, the nature and extent of the activities or the materials stored on the premises would present an immediate and dangerous hazard to health and/or be deleterious to the quality of the water should a cross-connection occur; even though such cross-connection does not exist at the time, backflow prevention devices shall be installed under circumstances including, but not limited to, the following:

1. Auxiliary Water Supply; Exception: Premises having an auxiliary water supply, unless the quality of the auxiliary supply is in compliance with the Idaho Regulations for Public Drinking Water Systems, Idaho Department of Health and Welfare, Division of Environment, section 1-8306, and is acceptable to the Purveyor.

2. Incorrectable Internal Cross-Connections; Intricate Plumbing: Premises having internal cross-connections that are not correctable or intricate plumbing arrangements which make it impracticable to ascertain whether or not cross-connections exist.

3. Restricted Entry And Inspection: Premises where entry is restricted so that inspections for cross-connections cannot be made with sufficient frequency or at sufficiently short notice to assure that cross-connections do not exist.

4. History Of Cross-Connections: Premises having a repeated history of cross-connections being established or reestablished.

5. Substances Under Pressure: Premises on which any substance is handled under pressure so as to permit entry into the public water supply or where a cross-connection could reasonably be expected to

occur. This shall include the handling of process waters and cooling waters.

6. Toxic Or Hazardous Materials: Premises where materials of a toxic or hazardous nature are handled in such a way that if back siphonage should occur, a serious health hazard might result.

7. Facilities Requiring Device; Exception: The following types of facilities will fall into one of the above categories where a backflow prevention device is required to protect the public water supply. A backflow prevention device shall be installed at these facilities unless the Purveyor and Director determine that no hazard exists:

- a. Hospitals, mortuaries, clinics.
- b. Laboratories.
- c. Metal plating industries.
- d. Piers and docks.
- e. Sewage treatment plants and pump stations.
- f. Food or beverage processing plants.
- g. Chemical plants using a water process.
- h. Petroleum processing or storage plants.
- i. Radioactive material processing plants or nuclear reactors.
- j. Others specified by the Purveyor.

8. Other Premises: Other premises as specified by the Purveyor where backflow prevention devices are required to protect the public water supply.

B. Type Of Protective Device Required: The type of protective device required shall depend on the degree of hazard which exists:

1. An air-gap separation or a reduced pressure principle backflow prevention device shall be installed where the public water supply may be contaminated with sewage, industrial waste of a toxic nature or other contaminant which could cause a health or system hazard.

2. In the case of a substance which may be objectionable but not hazardous to health, a double check valve assembly, air-gap separation or a reduced pressure principle backflow prevention device shall be installed.
- C. Location Of Device: Backflow prevention devices required by this Chapter shall be installed at the meter, at the property line of the premises when meters are not used or at a location designated by the Purveyor. The device shall be located so as to be readily accessible for maintenance and testing, and furthermore, where no part of the device will be submerged.
- D. Supervision Of Installation: Backflow prevention devices required by this Chapter shall be installed under the supervision of, and with the approval of, the Purveyor.
- E. Approval Of Device; Cost Of Installation: Any protective device required by this Chapter shall be a model approved by the Purveyor. A double check valve assembly or a reduced pressure principle backflow prevention device will be approved if it has successfully passed performance tests of the University of Southern California Engineering Center or other testing laboratories satisfactory to the Purveyor and the Idaho Department of Health and Welfare, Division of Environment. These devices shall be furnished and installed by and at the expense of the customer.
- F. Inspection And Testing; Cost: Backflow prevention devices installed pursuant to this Chapter, except atmospheric vacuum breakers, shall be inspected and tested annually, or more often if necessary. Inspections, tests and maintenance shall be at the customer's expense. Whenever the devices are found to be defective, they shall be repaired, overhauled or replaced at the customer's expense. Inspections, tests, repairs and records thereof shall be accomplished under the Purveyor's supervision by certified testers.
- G. Underground Sprinkling Device: No underground sprinkling device will be installed without adequate backflow prevention devices at the point from which the water for irrigation is taken from the public water supply.
- H. Failure To Comply: Failure of the customer to cooperate in the installation, maintenance, testing or inspection of backflow prevention devices required by this Chapter and the Idaho Regulations for Public Drinking Water Systems, Idaho Department of Health and Welfare, Division of Environment, section 1-8306, shall

be grounds for the termination of water service to the premises, or, in the alternative, the installation of an air-gap separation at the customer's expense. (Ord. 288-2, 2-10-1987)

**8-2-5: CROSS-CONNECTION INSPECTION:**

**A. New Structures:**

1. **Inspection And Approval Required Prior To Delivery:** No water shall be delivered to any structure hereafter built within the City or within areas served by City water until the same shall have been inspected by the Purveyor for possible cross-connections and been approved as being free of same.

2. **Facilities Classified As Hazardous:** Any construction for industrial or other purposes which are classified as hazardous facilities pursuant to subsection 8-2-4A7 of this Chapter, where it is reasonable to anticipate intermittent cross-connections or as determined by the Purveyor, shall be protected by the installation of one or more backflow prevention devices at the point of service from the public water supply or any other location designated by the Purveyor.

**B. Existing Structures:** Inspections shall be made periodically of all buildings, structures or improvements of any nature now receiving water through the City's system for the purpose of ascertaining whether cross-connections exist. Such inspections shall be made by the Purveyor. (Ord. 288-2, 2-10-1987)

**8-2-6: INSTALLATION PERMIT REQUIRED:** If cross-connection control device(s) are found to be necessary, the owner of the property served must apply to the Purveyor for a specific installation permit. (Ord. 288-2, 2-10-1987)

**8-2-7: ADDITIONAL REMEDIES:** In the event an improper cross-connection is not corrected within the time limit set by the Purveyor, or in the event the Purveyor is refused access to any property for the purpose of determining whether or not cross-connections exist, delivery of water to the property shall cease until the deficiency is corrected to the Purveyor's satisfaction. In addition, the Purveyor may effect the necessary repairs or modifications at the expense of the property owner and refuse

delivery of water to the property until the cost thereof shall have been paid.  
(Ord. 288-2, 2-10-1987)

8-2-8: **VIOLATION; PENALTY:** Any person who violates, disobeys, omits, neglects, refuses to comply with or resists the enforcement of any of the provisions of this Chapter or the rules and regulations as adopted by the Purveyor, shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall for each offense be subject to the penalty provisions as provided in Section 1-4-1 of this Code.  
(Ord. 288-2, 2-10-1987; 1997 Code)

(

(

(

(

(