

TITLE 13. MASTER UTILITIES PLAN

CHAPTER 13.20

CITY WATER SYSTEM CONTROL OF CROSS CONNECTIONS

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13.20.610 DEFINITIONS

1. **AIR GAP SEPARATION:** The physical vertical separation between the free-flowing discharge end of a potable water supply pipeline and the open or non-pressure receiving vessel.
2. **AUXILIARY SUPPLY:** Any water source or system other than the City of Stayton Water System.
3. **APPROVED BACKFLOW PREVENTION ASSEMBLY:** An assembly to prevent cross-connections due to backpressure and back-siphonage. The assemblies must appear on the list of approved assemblies issued by the Oregon Health Authority.
4. **BACKFLOW OR BACK SIPHONAGE:** The flow of water or other liquids, mixtures, or substances into the distribution system of a potable water supply from any sources other than its intended source.
5. **CROSS CONNECTION:** Any actual or potential unprotected connection or structural arrangement between the public potable water system and any other source or system through which it is possible to introduce into any part of the potable system any used water, industrial fluid, gas, or substances other than the intended potable water with which the system is supplied.

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6. **DOUBLE CHECK VALVE ASSEMBLY:** An assembly of two independently acting check valves with shut-off valves on each side of the check valves and test cocks for checking the water tightness of each check valve.
7. **HEALTH HAZARD:** An actual or potential threat of contamination of a physical, chemical, or biological nature to the public potable water system.
8. **NON-HEALTH HAZARD:** An actual or potential cross connection that could allow a substance that may be objectionable, but not hazardous to one's health, to backflow into the potable water system.
9. **PUBLIC WORKS DIRECTOR:** The City of Stayton Public Works Director or designee.
10. **PURVEYOR:** The City of Stayton Public Works Department.
11. **REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (R.P. Assembly):** Assembly for preventing backflow which has two check valves, a differential relief valve located between the two check valves, two shut-off valves, one on the upstream side and the other on the downstream side of the check valves, and four test cocks for checking the water tightness of the check valves and the operation of the relief valve.
12. **THERMAL EXPANSION:** The pressure created by the expansion of heated water. Thermal expansion will cause water to backflow into the potable water system.

13.20.620 CROSS-CONNECTIONS PROHIBITED

The installation or maintenance of a cross-connection which may endanger the water quality of the potable water supply system of the purveyor is unlawful and is prohibited. Any such cross-connection now existing or hereafter installed is hereby declared to be a public hazard and the same shall be abated. The control or elimination of cross-connections shall be in accordance with this Chapter and in compliance with OAR Chapter 333, the Oregon Administrative Rules for Public Drinking Water Systems.

The Public Works Director will have the authority to establish requirements more stringent than State regulations if it is deemed necessary or the conditions so dictate. The purveyor will adopt rules and regulations as necessary to carry out the provisions of this Chapter. The Public Works Director is hereby authorized to enforce the provisions of this Chapter in the inspection of existing, new, and remodeled buildings. (Ord. 666, section 2, 1990)

13.20.630 USE OF BACKFLOW PREVENTION ASSEMBLIES

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1. A water service connection will not be installed or maintained by the purveyor unless the water supply is protected as required by applicable provisions of state law and this Chapter. Water service to any premises will be discontinued by the purveyor if a backflow prevention assembly required by state law and/or this Chapter is not installed, tested, and maintained, or if it is found that a backflow prevention assembly has been removed or by-passed, or if an unprotected cross-connection exists on the premises. Water service will not be restored until such conditions or defects are corrected.
2. The premise owner's water piping system shall be open for inspection and testing at all reasonable times by authorized representatives of the purveyor to determine whether cross-connections, or other violations of these regulations, exist. When such a condition becomes known, the Public Works Director may deny or immediately discontinue service to the premises by providing for a physical break in the service line until the customer has corrected the condition(s) in conformance with the state statutes, administrative rules and City code relating to plumbing and water supplies and the regulations adopted pursuant thereto.
3. Backflow prevention assemblies may be required under circumstances including, but not limited to, the following:
 - a. Premises having an auxiliary water supply;
 - b. Premises having cross-connections that are not correctable or intricate plumbing arrangements which make it impractical to ascertain whether or not cross-connections exist;
 - c. 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.
 - d. Premises having a history of cross-connections being established or re-established;
 - e. Premises on which any deleterious substance is handled in a manner that may permit entry of same into the public water supply, or where a cross-connection could reasonably be expected to occur. This will include the handling of process waters and cooling waters;
 - f. Premises where materials of a toxic or hazardous nature are handled in such a way that if a backflow incident should occur, a health hazard might result;

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- g. The following types of facilities may fall into one of the above categories where a backflow prevention assembly is required to protect the public water supply. A backflow prevention assembly shall be installed at these facilities unless the purveyor determines that no hazard exists. [*See OAR Chapter 333 of the Oregon Administrative Rules*].
 - o Hospitals, mortuaries, clinics
 - o Laboratories
 - o Metal plating industries
 - o Piers and docks
 - o Sewage treatment plants
 - o Food or beverage processing plants
 - o Chemical plants using a water process
 - o Petroleum processing or storage plants
 - o Radioactive material processing plants or nuclear reactors
 - o Others specified by the purveyor
 - o Underground irrigation systems
- 4. The type of protective assembly required will depend on the degree of hazard which exists:
 - a. An air-gap separation or a reduced-pressure-principle backflow prevention assembly shall be installed where the public water supply may be contaminated by a physical, chemical, biological, or radiological substance or matter that creates a health hazard.
 - b. A double check valve assembly or a reduced-pressure-principle backflow prevention assembly shall be installed where the public water supply may be impaired to a degree which does not create a health hazard but which does adversely affect the aesthetic qualities of the water.
- 5. Backflow prevention assemblies required by this Chapter shall be installed in accordance with OAR Chapter 333 and the Oregon Plumbing Specialty Code.
- 6. Backflow prevention assemblies required by this Chapter shall be assemblies approved by the Oregon Health Authority.
- 7. Provision and installation of backflow prevention assemblies, where required, will be the responsibility of the property owner.
- 8. It shall be the responsibility of the property owner at any premises where backflow prevention assemblies are installed to have certified inspections and operational tests made at least once per year. In those instances where the Public Works Director deems the hazard to be great enough the City may require

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certified inspections at more frequent intervals. These inspections and tests shall be at the expense of the property owner and shall be performed by a certified tester approved by the Oregon Health Authority. It shall be the duty of the Public Works Director to see that these tests are completed in a timely manner. Backflow prevention assemblies shall be repaired, overhauled, or replaced at the expense of the property owner whenever said assemblies are found to be defective. Records of such tests, repairs, and overhaul shall be sent to the public works department.

9. Failure of the property owner to cooperate in the installation, maintenance, testing, or inspection of backflow prevention assemblies required by this Chapter or by state law shall be grounds for the termination of water service to the premises. (Ord. 666, section 3, 1990)

13.20.640 CROSS-CONNECTION INSPECTION

1. Inspections may be conducted on new and existing industrial, commercial, or other facilities which have been classified as hazardous and where it is reasonable to anticipate the potential for cross-connections as determined by the Public Works Director. Such inspections will be made by the purveyor or designee.
2. Inspections for the purpose of ascertaining whether cross-connections exist may be conducted at the discretion of the Public Works Director on all new and existing buildings, structures, or improvements of any nature that may receive or are now receiving water through the City's water system. Such inspections will be made by the purveyor or designee. (Ord. 666, section 4, 1990)

13.20.650 FEES

Fees authorized pursuant to this Chapter will be set by resolution. (Ord. 666, section 5, 1990; Ord.874, section 45, 2004)

13.20.660 INSTALLATION PERMITS

If cross-connection control assemblies are found to be necessary, the owner of the property served must apply to the local building authority for a permit for the specific installation. (Ord. 666, section 6, 1990).

13.20.670 LIABILITY

This Chapter shall not be construed to hold the City responsible for any damage to persons or property by reason of the inspection or testing herein, or the failure to inspect or test or by reason of approval of any cross-connection. (Ord. 666, section 7, 1990)

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13.20.680 PENALTIES

Each violation of the provisions of this Chapter shall be punishable by a fine not to exceed \$500.00. (Ord. 666, section 8, 1990; Ord. 874, section 46, 2004)

13.20.690 SEPARATE VIOLATIONS

Each day that a violation of this Chapter continues shall constitute a separate violation. (Ord. 666, section 9, 1990)