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Cross Connection

ORDINANCE NO. 679

ARTICLE 8

Cross Connection and Backflow Prevention

Section 1. Designation. This portion of this ordinance shall be referred to and may be designated and cited as the Aumsville Cross Connection Control Ordinance.

Section 2. Purpose. The purpose of this section of the ordinance shall be to protect the water supply of the City from contamination or pollution due to existing or potential cross connection by establishing appropriate regulations and controls relating thereto, including the installation and proper maintenance of approved backflow and/or siphonage devices.

Section 3. Definitions.

- (A) Approved Backflow Prevention Device means a device to counteract back pressures and/or prevent back siphonage. Such devices must be approved by the Oregon State Health Division.
- (B) Auxiliary Supply means any water source or system other than the City's water system that may be available to a particular building on the premises.
- (C) Backflow means a flow in other than the intended direction of flow of any substance, foreign liquid, gas or otherwise, other than potable water provided by the City, into the City's water system.
- (D) Cross Connection shall mean any actual or potential connection or structural arrangement whereby the City's water system is connected directly or indirectly with any other water sources or system, public or private, through which it is possible to introduce into any part of the City's system, any other source of water, potable or otherwise, or an industrial fluid, gas, or substance other than the City's potable water with which the system is supplied, including any connection with a sewer, drain, conduit, swimming pool, storage reservoir, plumbing fixture, swamp cooler, or other device through which it is possible to introduce into any part of the water system contaminated water, sewage, or other materials of unknown or unsafe quality which may be capable of imparting contamination to the City's water system as a result of backflow or otherwise, bypass arrangements, jumper connections, removable sections, swivel, or changeover devices or other temporary or permanent devices through which, or because of which, backflow may occur.
- (E) City Water System shall refer to and mean the Aumsville water system which shall include its wells, pumping stations, reservoirs, supply, trunk or feeder lines, service lines, meters and all other appurtenances, devices, lines, and things necessary to the operation of the system and to supply water service to individual property or premise and shall include the City's potable water with which the system is supplied.

(F) Public Works Director shall mean the person appointed by Council to be in charge of the City's water system.

Section 4. Application and Responsibility. This ordinance applies throughout the city of Aumsville and to every premise and property serviced by the City water system. It applies to any premises water system, public or private, regardless of date of installation. Every owner or occupant of any concerned premises is responsible for compliance with its terms and shall be responsible for any damages incurred as a result of failure to comply with the terms and provisions contained herein.

Section 5. Cross Connections Prohibited. Unless provided specifically herein or specially approved in writing by Council all cross connections, whether or not they are controlled by automatic devices such as check valves or by hand operated mechanisms such as gate valves or cork stops are prohibited.

Section 6. Backflow Prevention Device Installation. The owner of each property or premises serviced and/or furnished water by the City shall be required to install a testable backflow prevention device under the following circumstances:

- (A) There is upon such premises an auxiliary water supply which is or can be connected to the City's service or supply system (including individual premises service plumbing);
- (B) There is piping or equipment for conveying other than potable city water and that piping or equipment is under pressure and installed and operated in a manner that could cause a cross connection;
- (C) There is intricate plumbing which makes it impractical to ascertain whether or not cross connections exists;
- (D) The concerned premises have restricted entry so that inspections for cross connections cannot be made with sufficient frequency or with sufficient short notice, to assure that cross connections do not exist;
- (E) There is a fire line or irrigation service or domestic service larger than two inches;
- (F) The premises have a repeated history of cross connections being established or re-established;
- (G) The serviced premises from time to time may have materials of a toxic or hazardous nature which are handled so that if back siphonage should occur a serious health hazard may result;
- (H) Premises with the following or similar installation must have a backflow device installed: hot tubs, solar system, other uses specified by a certified cross connection specialist representing the City;
- (I) Premises on which any substance is handled under pressure so as to permit entry into the public water system, or where a cross connection could be reasonably expected to occur; this includes the handling of processed water and cooling water. Such type of facilities include dry cleaners/laundromats, laboratories, car washes, petroleum processing or storage plants, food preparation facilities, other facilities specified by the City's cross connection specialist.
- (J) Backflow prevention devices shall be required on domestic services two inches or smaller if the building is two (2) stories or higher than thirty-two (32) feet above the water main. One (1) and two (2) story buildings which exceed thirty-two (32) feet in height may be exempted upon determination by the city that no backflow hazard exists.
- (K) Any other water system which receives water from the city of Aumsville water system and does not have a cross connection program which has been approved by the City.

Section 7. Type of Backflow Prevention Devices Required and Location.

- (A) The type of backflow prevention device required shall be commensurate with the degree of hazard that exists and must meet at all times the standards of the Oregon State Health Division;

all backflow prevention devices required under this section shall be a type and model approved by the Oregon State Health Division and the director of public works.

- (B) A reduced pressure principal backflow prevention device shall be installed where the water supply may be contaminated by a substance that could cause health or system hazard. This type of device will also be required in any premises where entry is restricted by the water user. A reduced pressure principle backflow will be required at the point of connection between the city water system and any other water system, which does not have a cross connection program.
- (C) A double-check valve assembly pressure vacuum breaker or a reduced pressure principle backflow device assembly shall be installed where it is possible to interject a substance that may be objectionable, but not hazardous, into the water system.

Section 8. Location and Installation of Backflow Device.

- (A) The City may specify the location and method of installation of a backflow prevention device. The control or elimination of a cross connection shall be in accordance with Manuals of Standard and Practice pertaining to cross connection control approved by the City, and any requirements set forth by the United States Environmental Protection Agency as authorized by the "Safe Drinking Water Act" PL93-523 and other applicable legislature, rules, and regulations of the United States, the state of Oregon and concerned agencies.
- (B) An installation, corrective measure, disconnection, or other change to a backflow prevention device shall be at the sole expense of the owner. The costs of any change required in the City's system outside the property concerned, or between the meter and the supply line or distribution system, or any changes for cut-offs or disconnection, shall be paid in accordance with the City's practice and procedure, and may, if not paid, be collected through legal process or any other appropriate manner approved by law.

Section 9. Pre-existing Backflow Prevention Device. Any backflow prevention device installed before the effective date of this ordinance, not an approved device and hereinafter set forth shall be permitted to remain in service if:

- (A) The device is property maintained; and
- (B) The type of device is commensurate with the degree of hazard, such determination to be made by the City; and
- (C) The device is tested annually as required herein; and
- (D) The device performs satisfactorily.

If a backflow device does not meet the standards of the Oregon State Health Division as herein set forth, the device may be replaced if it is removed or requires more than minimum maintenance.

Section 10. Testing Requirements.

- (A) Any backflow prevention device which may be required to be installed under this ordinance for the protection of the City's water supply shall be tested before its use in the city and annually thereafter, unless a more frequent testing is required. All tests required to be performed under this section must be performed by a tester certified by the state of Oregon or otherwise approved by the City and written results of such test furnished to the City.
- (B) Any backflow prevention device which may be required by the City or state to be installed on property for the protection of a water supply shall be tested at the time of installation and anytime the device is moved or relocated (immediately after relocating or moving). The property owner must forward the results of such testing to the City within ten (10) days of the date of installation or relocation.
- (C) The property owner must order and cause to be performed a test of each backflow prevention

device annually on or within thirty (30) days after the anniversary date of the initial testing. The City may require more frequent testing in order to assure the device is functioning in those installations which represent a serious health hazard as determined by the city or the State Health Department.

- (D) If the City has not received the results of such test within thirty (30) days of the anniversary date for annual testing or within ten (10) days of the date of installation of the device as the case may be, or the date of the City's discovery that a device was installed without appropriate test as applicable, the City may order such test and bill the property owner for the cost thereof if the device is for protection of a fire service or for a commercial use; if the device is for protection of a domestic service, the City may deny or discontinue water service until satisfactory proof is furnished that the device has been tested and is functioning properly.
- (E) If the results of a test required by the City as herein set forth indicates that repairs are necessary, such repair must be undertaken and a new test taken, and the results thereof forwarded to the City within ten (10) days of the test, indicating the defect was repaired.

Section 11. General Provisions.

- (A) Any person operating any mobile apparatus which uses the City's water system or water from any premises within the city must provide for backflow prevention and the provisions herein set forth are applicable.
- (B) All plumbing within buildings served by the City shall be so installed and all plumbing fixtures so constructed as to prevent pollution of the City's water supply by back siphonage or cross connections. Water service to any premises known or found to have such defects and hazards shall be disconnected and not restored until such defects and hazards have been eliminated.

Section 12. Customer System Open for Inspection. The customer system shall be open for inspection to perform a facility survey at all reasonable times to the public works director, to determine whether cross connections or other structural or sanitary hazards including violations of these regulations exist. The public works director or any police officer shall have the power to enter any premises or building, for the purpose of enforcing the regulations contained in this Article, and it shall be unlawful for any person in charge of any such premises or building to refuse such entrance.

Section 13. Cross Connection and Backflow Enforcement.

- (A) The public works director of the City or his duly appointed representative or the State of Oregon Health Division shall have the right without being deemed guilty of trespass or an unlawful act to check the premises of customers for cross connections (physical connections), physical connections with other water supplies, and the general condition of water lines and service facilities, at any reasonable time. Any such connection prohibited thereby shall be removed by the customer within the time specified after written notice by the City, and if not so removed, the City shall remove or discontinue any connection it may have for servicing the property.
- (B) The public works director shall designate City cross connections specialists, and institute, with the approval of Council, such additional rules or regulations necessary to carry out provisions of this ordinance.