

TITLE 7 CHAPTER 6A

CROSS-CONNECTION CONTROL PROGRAM

SECTION:

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7-6A-1: CROSS-CONNECTION REGULATIONS – PURPOSE, SCOPE, DEFINITIONS, AND GENERAL PROVISIONS:

(A) Purpose and Scope. The purpose of the City of Albion's cross connection regulations is to protect the City water supply system from actual or potential pollution or contamination through cross connections and thus protect the public health of water consumers of the City by the control of actual and potential cross connections. The implementation of a cross connection program is done in accordance with the State of Idaho Department of Environmental Quality, and particularly with reference to IDAPA 58.01.08, Section 552.06, containing the Idaho Rules for Public Drinking Water Systems – Cross Connection Control Program – Community Water Systems.

(B) Definitions.

1. Approved: Accepted by the authority responsible as meeting an applicable specification stated or cited in this ordinance or as suitable for the proposed use.
2. Auxiliary Water Supply: Any water supply on, or available to, a premises in addition to the purveyor's approved public potable water supply.
3. Backflow: The flow of water or other liquids, gases or solids from any source back into the customer's plumbing system or the water purveyor's water distribution system.
4. Backflow Prevention Assembly: An approved assembly, which counteracts backpressure and/or prevents back siphonage. A reduced pressure principle backflow prevention assembly, a double check valve assembly, a pressure or atmospheric vacuum breaker shall be considered approved if it has successfully passed the performance tests of the University of Southern California Engineering Center or other testing laboratories acceptable to the City and the state of Idaho Department of Environmental Quality. Such assembly must meet the full standards established by the American Water Works Association titled: AWWA C510 –Standard of Double Check

Valve Backflow Prevention Assembly, and AWWA C511 – Standard for Reduced Pressure Principle Backflow Prevention Assembly.

5. City: The City of Albion or any authorized agent thereof.
6. Contamination: An impairment of the quality of the potable water which creates an actual hazard to the public health through poisoning or through the spread of disease by sewage, industrial fluids or waste. Also, defined as severe or high hazard.
7. Cross-Connection: Any actual or potential physical arrangement whereby the City water supply or water supply system is connected, directly or indirectly, with any other unapproved water supply system, sewer, drain, conduit, pool, storage reservoir, plumbing fixture, or other device which contains or may contain any substance capable of pollution or contamination.
8. Customer: Any person and/or premises receiving water from the City water supply system.
9. Pollution: The presence of any foreign substance in water that tends to degrade its quality so as to constitute a hazard or impair the usefulness of the water.
10. Service Connection: The terminal end of a service connection from the public potable water system, that is, where the water purveyor loses jurisdiction and sanitary control over the water at its point of delivery to the customer's water system. If a meter is installed at the end of the service connection, then the service connection shall mean the downstream end of the meter. There should be no unprotected takeoffs from the service line ahead of any meter or backflow prevention assembly located at the point of delivery to the customer's water system. Service connection shall also include water service connection from a fire hydrant and all other temporary or emergency water service connections from the public potable water system.
11. Water – Potable: Water that is safe for human consumption as described by the public health authority having jurisdiction.
12. Water – Non-Potable: Water that is not safe for human consumption or that is of questionable quality.

(C) No water service connection to any premises shall be installed or continued in the City unless the water supply is protected by backflow prevention assemblies as may be required by this Chapter, Idaho Code, and all standards, rules, and regulations of the State of Idaho, the Idaho Department of Environmental Quality, and any other Federal, State, County, or City authority or agency thereof. 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. Any such cross-connection now existing or hereafter installed is hereby declared to be a public nuisance and the same shall be abated. The control or elimination of cross-connections shall be in accordance with this

Chapter, Idaho Code, and all standards, rules, and regulations of the State of Idaho, the Idaho Department of Environmental Quality, and any other Federal, State, County, or City authority or agency thereof, together with the latest addition of appropriate manuals of standard practice pertaining to cross-connection control enacted by the City and any applicable County, State, and Federal authorities and agencies. The City shall have the authority to establish requirements more stringent than State regulations if it deems that the conditions and circumstances so dictate.

(D) Service of water to any premises shall be discontinued by the City if a backflow prevention assembly required by these regulations is not installed, tested and maintained, or if it is found that a backflow prevention assembly has been removed, bypassed, or if an unprotected cross connection exists on the premises. Service will not be restored until such conditions or defects are corrected to the satisfaction of the City.

(E) The customer's system should be open for inspection at all reasonable times to the City to determine whether cross connections or other structural or sanitary hazards, including violations of these regulations, exist. When such a condition becomes known, the City shall 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 state and City regulations relating to plumbing and water supplies and the regulations adopted pursuant thereto.

7-6A-2: USE OF BACKFLOW PREVENTION ASSEMBLIES:

(A) An approved backflow prevention assembly shall be installed under any circumstances included in, but not limited to, the following (reference Pacific Northwest section – American Water Works Association, chapter 7):

1. Premises having an auxiliary water supply that are connected to a lawn irrigation system, swimming pool, or is otherwise not in compliance with Idaho drinking water standards, rules, and regulations of the Idaho Department of Environmental Quality, and any other Federal, State, County, or City authority or agency thereof and is acceptable to the City.
2. 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. Premises where entry is restricted so that inspections for cross-connections cannot be made with sufficient frequency or at sufficiently short notice to ensure that cross-connections do not exist.
4. Premises having a repeated history of cross-connections being established or re-established.

5. Premises on which any substance is handled under pressure so as to permit entry into the City 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. 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. The domestic service lines to all industrial and commercial development structures within the City of Albion, regardless of business type, will be required to install a reduced pressure backflow assembly.
8. Premises housing an auxiliary water supply that has not been approved by the City for its quality and protection.
9. Other premises as specified by the City, where backflow prevention devices are required to protect the City water supply.

(B) The type of protective assembly required shall depend on the degree of hazard which exists or is presented. The following guidelines shall be used:

1. An air-gap separation or a reduced pressure principle backflow prevention assembly shall be installed where the City 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 pollution with a substance which may be objectionable but not hazardous to health, a double check valve assembly, or either of the methods set forth in (B)(1) immediately above, shall be installed.
3. Back siphonage or back pressure from irrigation sprinkler system, shall be prevented by the use of a reduced pressure backflow prevention assembly at the service connection, a pressure vacuum breaker assembly, or a spill resistant pressure vacuum breaker assembly, as directed by the City and the State of Idaho Department of Environmental Quality.

(C) Backflow prevention assemblies required by these regulations shall be installed, at the property line of the premises, or at a location designated by the City. 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) Backflow prevention assemblies required by these regulations shall be installed under the supervision of, and with the approval of, the City.

(E) Any protective assembly or device required by these regulations shall be approved by the City, applicable State, County, and Federal authorities and agencies. These devices shall be furnished and installed by, and at the expense of, the customer.

(F) 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 City water supply.

(G) Stagnant Water; Double Check Valve Assembly: Facilities having plumbing arrangements connected to the water supply system, where the water remains stagnant for prolonged periods of time, shall be required to install a double check valve assembly (reference Pacific Northwest section cross connection control manual, IDAPA 58.01.08, Idaho rules for public drinking water systems).

1. Fire Sprinkler Systems. Fire sprinkler systems that are of the wet or dry type shall be required to install a double check valve assembly. Systems that are a chemical type or are equipped with an antifreeze loop shall be required to install a reduced pressure backflow assembly.

7-6A-3: SUPERVISION AND INSPECTION:

(A) 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 City for possible cross-connections and been approved as being free of the same.

(C) Any construction for industrial or other purposes where it is reasonable to anticipate cross-connections, or as determined by the City, shall be protected by the installation of one or more backflow prevention assemblies at the point of service from the City water supply or any other location designated by the City, and applicable County, State, and Federal authorities and agencies.

(D) Inspections may 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 City or applicable County, State, and Federal authorities and agencies.

(D) Backflow prevention assemblies installed pursuant to this Ordinance, shall be inspected and tested annually, or more often if necessary. Inspections, tests, and maintenance shall be at the customer's expense, by a certified tester retained and paid by the customer. Whenever the assemblies 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 in accordance with all standards, rules, and regulations of this Chapter, Idaho Code, and all standards, rules, and regulations of the State of Idaho, the Idaho Department of Health and Welfare, the Idaho Department of Environmental Quality, and any other Federal, State, County, or City authority or agency thereof by certified testers retained and paid by the customer.

(1) In the event that assemblies cannot pass annual tests or are found to be defective, such shall be repaired, replaced or isolated within ten (10) business days of notice to water user/owner of failure of test or indication of assembly being defective, or water service to the failed assembly shall be discontinued.

(2) Customer will be responsible for the testing of the backflow prevention assembly by a certified assembly test technician within ten (10) days of installation and annually thereafter. For implementation of these regulations concerning installation and annual testing in 2014, installation and testing shall be completed by or before August 1, 2014 and the customer shall furnish the City with a certificate of satisfactory testing by said date. Thereafter, annual testing shall be accomplished by June 1st of each year and the customer shall furnish the City with a certificate of satisfactory testing by such date.

(3) In instances where the City deems the hazard great enough, testing may be required at more frequent intervals. All such testing, as required under this Section (D), shall be paid by the customer.

(4) Right of Entry Allowed: During reasonable hours, all customers shall permit entry of the City to inspect for cross connection.

(5) Any repairs required as a result of inspections or testing shall be arranged for and shall be paid for, by the Customer through private contract.

(E) Failure of the customer to cooperate in the installation, maintenance, testing, or inspection of backflow prevention assemblies required by these regulations, Idaho Code, and all standards, rules and regulations of the State of Idaho, the Idaho Department of Health and Welfare, the Idaho Department of Environmental Quality, and any other Federal State, County, or City authority or agency thereof 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.

(F) Backflow Testers; proof required: All backflow testers will be required to show proof of the following:

- (1) Carry a minimum of five hundred thousand dollars (\$500,000.00) liability insurance.
- (2) Be licensed or recertified within the past twenty-four months.
- (3) Test equipment must be recalibrated within the past twelve (12) months.
- (4) Current copy of proof of insurance and recalibration certificate must be on file with the City of Albion.

G. Final Determination. The City of Albion shall make the final determination regarding cross connections.

7-6A-4: INSTALLATION PERMITS FOR CROSS-CONNECTION CONTROL ASSEMBLIES: If cross-connections control device(s) are found to be necessary, the owner of the property served must apply to the City for a specific installation permit.

7-6A-5: ADDITIONAL REMEDIES: In the event that a required cross-connection assembly is not installed as required by the City, or that an improper cross-connection is not corrected within the time limits set by the City or in the event the City is refused access to any property for the purpose of determining whether or not cross-connections exist, after notice to the property owner as provided in this code at Title 7, Chapter 6A, Section 7-6A-3(D)(1), hereinabove, the City may cease delivery of water to the property until the deficiency is corrected to the City's satisfaction. In addition, the City without waiving any terms of these regulations may, but shall not be required to, effect the necessary repairs or installations at the expense of the property owner and refuse delivery of water to the property until the cost thereof shall have been paid. Violations of these regulations are hereby declared to be a nuisance, and the City, after notice to the customer or property owner to remove or correct the violation, may prevent, remove, and abate the same at the expense of the party creating or maintaining the same, in which event the City may levy a special assessment as provided in Idaho Code on the land or premises whereon the nuisance is situated to defray the cost or to reimburse the City for the cost of abating the same.

7-6A-6: FALSE TEST RESULTS – REMEDY AGAINST TESTER: Any tester found to have turned in false test results on a backflow prevention assembly shall be banned from testing in the City of Albion for a period of one (1) year, upon first violation. If a second violation occurs, the tester will be permanently banned from testing in the City of Albion. [Adopted by Ordinance 2014-01-01, June 2014.]