

FRUITLAND MUTUAL WATER COMPANY
CROSS CONNECTION CONTROL PROGRAM
for BACKFLOW PREVENTION
POLICY No. 206

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BACKGROUND

1.1 PURPOSE

The Fruitland Mutual Water Company has been operating with a Cross Connection Control policy since the policy's adoption by the Board of Directors on October 22, 1990. This previous policy did not meet the new requirements of the state of Washington Administrative Code (WAC) 246-290-490 effective April 9, 1999.

1.2 AMENDS AND INCORPORATES EXISTING POLICIES

This policy supersedes the existing Cross Connection Control Policy adopted October 22, 1990 provided for in Article IX, Section 15 of the Fruitland Mutual Water Company Bylaws. It also incorporates the Commercial Cross Connection Control Policy No. 105 requiring installations for specific applications.

1.3 POLICY INTENT

It is the purpose of this policy to reflect the legislative intent of the Washington Administrative Code (WAC) Section 246-290-490 et.seq., administered by the Washington State Department of Health, Division of Drinking Water, Cross Connection Control Program Manager.

1.4 DEFINITIONS

Definitions for this Cross Connection Control Program shall be the same as those defined in the Group "A" Water System Standards WAC 246-290.

1.5 TYPE OF PROGRAM

The type of cross connection control program adopted by the Fruitland Mutual Water Company is the combination of 1) an in-premise protection program with the cooperation of the Local Administrative Authority, and 2) a premises isolation program, to protect the water quality of the Fruitland Mutual Water Company

PROGRAM REQUIREMENTS

2.1 IMPLEMENTATION - WAC 246-290-490(3)(b)&(3)(c) - *Elements 1 and 2*

With the adoption of this policy, the Board of Directors of the Fruitland Mutual Water Company commits and supports the operations, maintenance and corrective actions defined in this policy is Cross-Connection Control Program. The program includes the policies, procedures and schedules to be implemented and maintained to determine degrees of hazard due to cross connection for all members water service connections.

2.2 PROTECTION FROM CROSS-CONNECTIONS - WAC 246-290-490(3)(d) - *Element 3*

It is the direction of this Board of Directors that within the mains and appurtenances of the Fruitland Mutual Water Company water system, all cross-connections are eliminated whenever possible; and when they can not be eliminated, they shall be protected and controlled by state approved backflow assemblies commensurate with the degree of hazard, installed in accordance with the approved standards.

2.3 QUALIFIED PERSONNEL - WAC 246-290-490(3)(e) - *Element 4*

The Board of Directors looks to the General Manager of the Fruitland Mutual Water Company to manage with efficiency this Cross Connection Control Program pursuant to the intent, policy, procedures, schedules, enforcement and the operation & maintenance outlined in this program. The Board of Directors ensures competent and qualified personnel are employed for this program that will maintain a current and valid certification as a Cross Connection Control Specialist from the Washington State Department of Health.

2.4 REQUIRED TESTING OF ASSEMBLIES - WAC 246-290-490(3)(f) - *Element 5*

All installed and approved backflow assemblies within the service area of the Fruitland Mutual Water Company shall be inspected and tested in accordance with WAC 246-290-490(7) after installation before commencement of service, after an assembly is repaired, reinstalled, relocated or re-plumbed, and annually thereafter. Fruitland reserves the right to cause the owner to test the assembly if a high health hazard exists or if the assembly repeatedly fails. All tests shall be performed by a valid Backflow Assembly Tester certified by the Washington State Department of Health and retains a current annual certification of calibration of the equipment used for testing.

2.5 QUALITY ASSURANCE AND CONTROL - WAC 246-290-490(3)(g) -

Element 6

All Backflow Assembly Testers testing within the boundaries of the Fruitland Mutual Water Company service area shall submit to the Water Company 1) a copy of their current, valid Backflow Testers Certification from the Washington State Department of Health and 2) a copy of current annual certification of calibration of all the equipment used for testing. Testers not registered with the Company may submit the required information with the test report or within 30 days thereafter. Test reports from testers without current and valid registration will not be considered valid and the backflow assembly is not considered tested.

2.6 BACKFLOW INCIDENT REPORTING - WAC 246-290-490(3)(h) -

Element 7

Whenever a backflow incident is reported or suspected, an investigation of the incident shall be investigated. In the case of an actual incident, the General Manager of the Fruitland Mutual Water Company shall file a report with the Cross Connection Control Program Manager of the Washington State Department of Health, Division of Drinking Water within 48 hours of the conclusion of the investigation and not more than one week from the initiation of an investigation. The report shall be on forms provided by DOH or in written form containing the same content.

2.7 MEMBERSHIP EDUCATION - WAC 246-290-490(3)(i) - Element 8

The Fruitland Mutual Water Company shall publish general cross-connection control information in its newsletters or billings submitted to the membership and/or its users of water service at intervals determined by the General Manager or the Board of Directors. The subject and content shall be determined by the General Manager.

2.8 RECORDKEEPING RESPONSIBILITY - WAC 246-290-490 - Element 9

The General Manager shall ensure adequate records of cross-connection control activities are kept in a logical, retrievable order in a suitable location for a minimum of five-years. Records shall contain a master list of all backflow assemblies relied upon by the Fruitland Mutual Water Company to protect its water from pollution or contamination. Each assembly record shall include, but not be limited to:

- a) Property Address
- b) Property identification, owner or name most known as

2.8 Recordkeeping Responsibility - continued

- c) Contact Name, telephone number, and mailing address if different than address
- d) Type of application protection (Fixture vs. Premises),
- e) Identified hazard, the identified degree of hazard;
- f) Assembly information, including
 1. Location,
 2. Type,
 3. Size,
 4. Model Number,
 5. Serial Number,
 6. Repair Reports,
 7. Test Reports, including
 - a) Test results
 - b) Test equipment
 - c) Date of test
 - d) Testers name in readable form
 - e) Testers signature
 - f) BAT certification number
 - g) Type of Report (annual, after installation, repair, relocation etc.)

2.9 RECLAIMED WATER APPLICATIONS - WAC 246-290-490 - Element 10

There are no applications or sources of reclaimed water known in the service area of the Fruitland Mutual Water Company's service area. There are no known auxiliary uses, such as cooling functions, treatment functions or other use activities that may or may not change the portability of the drinking water reported.

SECTION 3 - IMPEMENTATION

3.1 DETERMINATION OF DEGREE OF HAZARD

It shall be the responsibility of the General Manager to determine the degree of hazard of any actual or potential cross-connection or influence on the pollution or contamination of the water within the mains of the Fruitland Mutual Water Company.

Review of existing water services shall be routinely re-evaluated by inspection or questionnaire to the membership, or the member's representative. New services shall be reviewed prior to commencement of service. Plumbing plans will be reviewed when cooperation exists with the Local Administrative Authority

3.2 REQUIRED BACKFLOW ASSEMBLY INSTALLATIONS

Reduced Pressure Principal Backflow Assemblies or approved air gaps are required for all service connections serving properties having customer types listed or similar to the list titled "Table 9" under WAC 246-290-490(4)(b)(i). as interpreted by the General Manager.

Reduced Pressure Principal Backflow Assemblies are required for all service connections serving properties having swimming pools or spas, ponds, greenhouses and/or boilers directly connected to the potable water system.

Reduced Pressure Principal Backflow Assemblies are required for all service connections serving properties having lawn irrigation systems containing chemical addition or seasonal blowout connections that are connected to the potable water system.

Double Check Valve Assemblies are required for all service connections serving properties having irrigation systems internal to the member's private water system without chemical addition or seasonal blowout connections that are connected to the potable water system.

Double Detector Check Valve Assemblies are required for all service connections serving fire suppression systems without chemical addition.

Reduced Pressure Principal Detector Assemblies are required for all service connections serving fire suppression systems with chemical addition.

3.3 RESIDENTIAL DOMESTIC WATER SERVICE CONNECTIONS

Domestic water service connections to single-family residential properties shall have backflow protection within eighteen inches (18") of the water meter tail commensurate with the degree of hazard when any of the following items are fed by or connected to the domestic water system on the property:

- a) lawn or garden sprinkler irrigation systems
- b) fire suppression systems
- c) pools, hot tubs or spas (above or below ground)
- d) greenhouses
- e) fish and/or aesthetic ponds
- f) Table 9 uses
- g) boiler
- h) any other use declared to be a health hazard or concern by the General Manager of the Fruitland Mutual Water Company

3.4 COMMERCIAL DOMESTIC WATER SERVICE CONNECTIONS

For all connections to the water mains of the Fruitland Mutual Water Company not listed above, the following requirements apply to all the membership: - (Old Policy No. 0105)

- a) All commercial domestic water service connections shall have a backflow assembly installed within eighteen inches (18") of the water meter tail (customer's side of the meter) commensurate with the highest degree of hazard of the occupant(s) as determined by the General Manager or a Cross Connection Control Specialist certified in the state of Washington.
- b) No commercial water service shall have less than a Double Check Valve Assembly (DCVA) for backflow protection.
- c) Reduced Pressure Principle Backflow Assembly (RPBA) shall be installed on all water services for occupants with potential pollution or contamination hazards as listed in WAC 246-290-490 Table 9 or similar occupants.
- d) Reduced Pressure Principle Backflow Assembly (RPBA) shall be installed on all water services for commercial structures that occupy more than one tenant.

3.4 COMMERCIAL DOMESTIC WATER SERVICE CONNECTIONS - continued

- e) All commercial irrigation systems shall have a backflow assembly installed within eighteen inches (18") of the water meter tail (customers side of the meter) or within twelve inches (12") downstream of the valved connection to the potable water supply.
- f) All irrigation systems with existing or potential chemical addition, including antifreeze shall have a Reduced Pressure Principle Backflow Assembly.
- g) No irrigation system shall have less than a Double Check Valve Assembly (DCVA) for backflow protection.

COMMERCIAL FIRE SPRINKLER SERVICE CONNECTIONS

- h) All fire sprinkler service connections shall have backflow prevention assemblies with a detecting (metered) bypass.
- i) Backflow assemblies shall be located in a vault on private property adjacent to the public right-of-way such that the distance between the supplying water main and the backflow assembly is the shortest reasonable distance not to exceed 50 feet. When the supplying water main is on private property, the backflow assembly shall be located as close to the water main tap as reasonably possible.
- j) All fire system installations 3" and larger shall meet the requirements of City of Puyallup Public Works Construction Standard No. 311, whether or not inside the City. Installations less than 3" shall meet the requirements of Standard No. 309.
- k) All fire systems without antifreeze, chemical addition, or Fire Department Connections (FDC) shall have a minimum of a Double Check Detector Assembly (DCDA) as the backflow preventor.
- l) Fire systems with antifreeze, chemical addition, or Fire Department Connections (FDC) shall have a Reduced Pressure Principle Detector Assembly (RPDA).

3.5 APPROVED ASSEMBLIES FOR BACKFLOW PROTECTION

Only those assemblies listed in the most recent publication of the Washington State Department of Health's publication number 331-137 entitled "Backflow Prevention Assemblies Approved for installation in Washington State" are considered "approved".

3.5 Approved Assemblies for Backflow Protection - continued

Only those backflow assemblies that are installed pursuant to the Fruitland Mutual Water Company adopted installation Standards in the correct location, in the proper orientation, and inspected and accepted by the General Manager of the Fruitland Mutual Water Company, or his/her designated competent designee are considered properly installed.

Atmospheric Vacuum Breakers are not considered an approved backflow assembly by the Fruitland Mutual Water Company.

3.6 INSTALLATION REQUIREMENTS

Backflow assemblies shall be installed by the member at the direction of the General Manager or the Board of Directors of the Fruitland Mutual Water Company within the time limit given. Failure to install within the specified time is subject to termination of water service.

Backflow assemblies shall be installed:

- a) pursuant to the applicable Fruitland Mutual Water Company installation Standards
- b) within eighteen inches (18") of the tail of the water meter
- c) within a vault located adjacent to the property line on private property adjacent to the right-of-way containing the water main to serve the property
- d) within an enclosure retaining the minimum dimensions and preventing exposure to inclement weather, standing or flooded water and soil.

All assembly installations are to be inspected by the General Manager and/or the Backflow Coordinator of the Fruitland Mutual Water Company for approval.

3.7 TESTING REQUIREMENTS

All installed and approved backflow assemblies within the service area of the Fruitland Mutual Water Company shall be inspected and tested in accordance with WAC 246-290-490(7) after installation and before commencement of service, after an assembly is repaired, reinstalled, relocated or re-plumbed, and annually thereafter. Fruitland reserves the right to cause the owner to test the assembly if a high health hazard exists or if the assembly repeatedly fails or for any other reasonable cause identified by the General Manager of the Fruitland Mutual Water Company. All tests shall be performed by a valid Backflow Assembly Tester certified by the Washington State Department of Health and retains a current annual certification of calibration of the equipment used for testing and has provided copies of such to the Water Company Backflow Coordinator.

3.8 REQUIREMENTS OF THE MEMBER

The member shall bear the responsibility of all costs associated with the installation, testing, repair, maintenance and replacement of all backflow assemblies, their enclosures and appurtenances.

The member shall cooperate with the Fruitland Mutual Water Company in responding to surveys regarding water use for evaluation of potential or actual cross connections.

3.9 NOTIFICATION OF TESTING

Unless previous arrangements are made with the member in writing, the Fruitland Mutual Water Company will mail written notification to the member, or the members designated representative, that the assembly(ies) serving the property referenced in the letter needs testing. The letter will identify the assembly's:

- a) Location,
- b) Type,
- c) Size,
- d) Model Number,
- e) Serial Number,

The letter will also include a list of Backflow Assembly Testers qualified to test within the Service Area of the Fruitland Mutual Water Company.

The notice will be sent prior to the month the assembly is to be tested. The member shall arrange for the test by the Backflow Assembly Tester of their choosing. The results of the test shall be reported in writing, containing the information listed in Section 3.10 to the Backflow Coordinator of the Fruitland Mutual Water Company within the month the assembly is to be tested.

Failure to receive the test results within the month the assembly is to be tested, the Backflow Coordinator of the Fruitland Mutual Water Company will call by telephone and/or send a late notice to the member and the members designated representative, if any, a notice of delinquency and extend the due date of the report by no more than two additional weeks. Failure to receive a satisfactory test report within the two-week extension, the General Manager will issue a Termination of Service letter via Certified Mail to the member and the members designated representative, if any, pursuant to WAC 246-290-490(2)(k) and execute water service termination procedures.

Termination of water service shall not be reinstated until a Backflow Assembly Tester is on-site prepared to conduct the backflow assembly test. Should this occur within one-hour of, or during off-business hours, the member or the designated representative shall be charged the current after-hours fee.

3.10 TEST RESULTS

Test result Reports shall include, but not be limited to the following to be considered a valid test:

- a) The site address,
- b) The customers name,
- c) The assembly type
- d) The model number
- e) The serial number
- f) The differential pressure readings obtained
- g) A comment if the assembly is correct and installed correctly
- h) Whether the assembly passed
- g) Any maintenance or repair was completed
- i) The testers name printed
- j) The tester's signature that he performed the test
- k) The tester's valid certification number
- l) The date of the test

3.11 ENFORCEMENT FOR COMPLIANCE

The Fruitland Mutual Water Company retains the right to deny water service to any member or its occupant of any property within the Water Company's Water service area if proper backflow prevention is not installed, inspected, tested, maintained or repaired in a timely manner as determined by the General Manager or the Board of Directors of the Fruitland Mutual Water Company. If water service is to be terminated, Fruitland shall notify the Local Administrative Authority pursuant to WAC 246-290-490(2)(k).

3.12 RECORDKEEPING

The Backflow Coordinator shall retain all information and documentation that is pertinent to the implementation, administration, assembly testing, operation, maintenance, correspondence with members or other persons or firms that is associated with this program.

The Backflow Coordinator shall compile and report information requested by the Cross Connection Control Annual Summary Report to the Cross Connection Control Program Manager of the State of Washington, Department of Health, Drinking Water Section.

(end)