

# Drinking Water Board – August 28, 2018

Amend R309-105-12 (Original)



## **R309-105-12. Cross Connection Control.**

(1) The water supplier shall not allow a connection to his system which may jeopardize its quality and integrity. Cross connections are not allowed unless controlled by an approved and properly operating backflow prevention assembly or device. The requirements of ~~[Chapter 6 of]~~ the ~~[2009]~~ International Plumbing Code and its amendments as adopted by the Department of Commerce under R156-56 shall be met with respect to cross connection control and backflow prevention.

(2) Each water system shall have a functioning cross connection control program. The program shall consist of five designated elements documented on an annual basis. The elements are:

(a) a legally adopted and functional local authority to enforce a cross connection control program (i.e., ordinance, bylaw or policy);

(b) providing public education or awareness material or presentations;

(c) an operator individual with adequate training in the area of cross connection control or backflow prevention;

(i) Community water systems shall have at least one certified Cross Connection Control Program Administrator by December 31, 2020. Refer to R309-305 for specific requirements.

(ii) Non-transient non-community and transient non-community water systems may be required to have a certified Cross Connection Control Program Administrator at the Director's discretion.

(d) written records of cross connection control activities, such as, backflow assembly inventory; and

(e) test history and documentation of on-going enforcement (hazard assessments and enforcement actions) activities.

(3) Suppliers shall maintain, as proper documentation, an inventory of each pressure atmospheric vacuum breaker, spill resistant pressure vacuum breaker, double check valve, reduced pressure zone principle assembly, and high hazard air gap used by their customers, and a service record for each such assembly.

(4) Backflow prevention assemblies shall be in-line serviceable (repairable), in-line testable and have approval [certification] through third party [certifying] approval agencies to be used within a public drinking water system. Third party [certification] approval shall consist of any combination of two approvals [certifications], laboratory or field, performed by a recognized testing organization which has demonstrated competency to perform such tests.

(5) Backflow prevention assemblies shall be inspected and tested at least once a year, by an individual certified for such work as specified in R309-305. Suppliers shall maintain, as proper documentation, records of these inspections. This testing responsibility may be borne by the water system or the water system management may require that the customer having the backflow prevention assembly be responsible for having the [device] assembly tested.

(6) Suppliers serving areas also served by a pressurized irrigation system shall prevent cross connections between the two. Requirements for pressurized irrigation systems are outlined in Section 19-4-112 of the Utah Code.

**KEY: drinking water, watershed management**

**Date of Enactment or Last Substantive Amendment: [November 8, 2017]**

**Notice of Continuation: March 13, 2015**

**Authorizing, and Implemented or Interpreted Law: 19-4-104**

# Summary of Fiscal Analysis

## Proposed Amendment: R309-105-12, Cross Connection Control

### Aggregate Anticipated Cost or Savings:

#### I. State Budget:

1. Expected direct fiscal impact to state budget for two Community Water Systems (CWS) operated by the state of Utah
  - a. **\$880** total one time expenditure
    - \$480 (initial Cross Connection Control Program Administrator Certificate (CCC-PA) for 1 water system)
    - \$400 (initial contract with certified CCC-PA for 1 water system)
  - b. **\$310** total annual ongoing expenditure for CCC-PA certificate renewal and contract maintenance
    - \$110 (annual CCC-PA certificate renewal for 1 water system)
    - \$200 (annual contract with CCC-PA @ \$50/hr)
2. Fiscal impact results from requirement that all CWS's have a Cross Connection Control Program Administrator
3. Fiscal impact not expected to state revenues or expenditures due to administration of the rule by Division of Drinking Water – no additional employees or resources needed

#### II. Local Government:

1. Expected direct fiscal impact to 309 Community Water Systems operated by Local Governments
  - a. **\$140,480** total one time expenditure
    - \$480/CWS (initial CCC-PA for 211 water systems)
    - \$400/CWS (initial contract with certified CCC-PA for 98 water systems)
  - b. **\$42,810** total annual ongoing expenditure for CCC-PA certificate renewal and contract maintenance
    - \$110 (annual CCC-PA certificate renewal for 211 water systems)
    - \$200 (annual contract with CCC-PA @ \$50/hr for 98 water systems)
2. Fiscal impact results from requirement that all CWS's have a Cross Connection Control Program Administrator

#### III. Small Businesses:

1. Expected direct fiscal impact to 163 privately-operated Community Water Systems (small businesses)
  - c. **\$67,600** total one time expenditure
    - \$480/CWS (initial CCC-PA for 30 water systems)
    - \$400/CWS (initial contract with certified CCC-PA for 133 water systems)
  - d. **\$29,900** total annual ongoing expenditure for CCC-PA certificate renewal and contract maintenance
    - \$110 (annual CCC-PA certificate renewal for 30 water systems)
    - \$200 (annual contract with CCC-PA @ \$50/hr for 133 water systems)

2. Fiscal impact results from requirement that all CWS's have a Cross Connection Control Program Administrator

**IV. Persons Other than Small Businesses, Businesses, or Local Government Entities:**

1. Expected direct fiscal impact to Other Persons – 10 Community Water Systems operated by the federal government
  - a. **\$4,560** total one time expenditure
    - \$480/CWS (initial CCC-PA for 7 water systems)
    - \$400/CWS (initial contract with certified CCC-PA for 3 water systems)
  - b. **\$1,370** total annual ongoing expenditure for CCC-PA certificate renewal and contract maintenance
    - \$110 (annual CCC-PA certificate renewal for 7 water systems)
    - \$200 (annual contract with CCC-PA @ \$50/hr for 3 water systems)
2. Fiscal impact results from requirement that all CWS's have a Cross Connection Control Program Administrator

**V. Total Fiscal Costs**

- **\$287,910** in FY2021 (All CWS)
- Includes total one-time expenditures and total ongoing expenditures for FY2021