

SALMON VALLEY WATER COMPANY

CROSS CONNECTION CONTROL PROGRAM

(Rule 34: Cross Connections)

I. Definitions

A. Approved

Accepted by the Oregon Health Division or any other governing body as meeting an acceptable specification stated or cited in the appropriate rules and regulations or as suitable for the proposed use.

B. Auxiliary Water Supply

Any water supply, on or available, to the premises other than Salmon Valley Water Company's approved public potable water supply.

C. Backflow

The flow in the direction opposite to the normal flow caused by backsiphonage or back pressure. Backsiphonage is caused by negative or reduced pressure in the supply piping and back pressure occurs when the potable supply piping is connected to a system or fixture which exceeds the operating pressure of the supply piping.

D. Backflow Prevention Device Assembly (DVCA)

A device designed to prevent backflow or backsiphonage. Most commonly categorized as air gap, reduced pressure principle device, double check valve assembly, pressure vacuum breaker, atmospheric vacuum breaker, hose bib vacuum breaker, double check and the attached shut off valves on the inlet and outlet ends of the device assembled as a complete unit. Device must be classified as an approved backflow device by the Oregon Health Division.

D1. Air Gap

A physical separation sufficient to prevent backflow between the free-flowing discharge end of the potable water system and any other system. Physically defined as a distance equal to twice the diameter of the supply side diameter but never less than one (1) inch.

D2. Atmospheric Vacuum Breaker

A device which prevents backsiphonage by creating an atmospheric vent when there is either a negative pressure or subatmospheric pressure on the water system.

D3. Double Check Valve Assembly

An assembly of two (2) independently operating spring loaded check valves with tightly closing shut off valves on each side of the check valves. The check valve(s) must be able to be removed for testing.

Issued.....4/18/96.....Effective May 1, 1996

Issued by SALMON VALLEY WATER COMPANY.

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D4. Pressure Vacuum Breaker

A device containing one (1) or two (2) independently operating approved check valves and an independently operated spring loaded air inlet valve located on the discharge side of the check or checks. Device includes tightly closing shut-off valves on each side of the check valves and properly located test cocks for the testing of the check valve(s).

D5. Reduced Pressure Principle Backflow Preventer

An assembly consisting of two (2) independently operating approved check valves with an automatically operating differential relief valve located between the two (2) check valves, tightly closing shut-off valves, plus properly located test cocks for the testing of the check valves and the relief valves.

E. Contaminant

Any substance that will impair the quality of the water to a degree that it creates a serious health hazard to the public leading to poisoning or the spread of disease.

F. Containment

A method of backflow prevention which requires a backflow preventer at the water service entrance.

G. Cross Connection

Any link or channel between the piping which carries drinking water and the piping or fixtures which carry other water or substances.

H. Division

Health Division of the Oregon Department of Human

Resources.

I. Fixture Isolation

A method of backflow prevention in which a backflow preventer is located to correct a cross connection at an in-plant location rather than a water service entrance.

J. Owner/Customer

Patron, user, consumer, or any person who has legal title to, or lives in a property served by SVWC.

K. Person

Any individual, partnership, company, public or private corporations, political subdivision or agency of the State Division, agency or instrumentality of the United States or any other legal entity.

L. Pollutant

A foreign substance that, if permitted to get into the public water system, will degrade its quality so as to constitute a moderate hazard, or impair the usefulness or quality of the water to a degree which does not

Issued 4/18/96 Effective May 1, 1996

Issued by SALMON VALLEY WATER COMPANY.

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create an actual hazard to the public health but which does adversely and unreasonably effect such water for domestic use.

M. Public Health Hazard

A condition, device, or practice which is conducive to the introduction of water borne disease organisms, or harmful chemical, physical, or radioactive substances into a public water system, and which presents an unreasonable risk to health.

N. Works Director

The Director, the Certified Water Operator, or his delegated representative, in charge of Salmon Valley Water Company, is vested with the authority and responsibility for the implementation of a cross connection control program and for the enforcement of the provisions of the Ordinance.

O. Company or Utility

Salmon Valley Water Company (SVWC or company)

P. Water Service Entrance

That point in the owner's water system beyond the sanitary control of the Company, generally considered to be the outlet end of the water meter and always before any unprotected branch.

II. **Purpose**

A. To protect the public potable water supply served by SVWC from the possibility of contamination or pollution by isolating, within the customers' internal distribution system, such contaminants or pollutants which could backflow or backsiphon into the public water system.

B. To promote the elimination of, or control of, existing cross connections, actual or potential, between the potable water system and sources of nonpotable water or other hazardous substances.

C. To provide for the maintenance of a continuing program of cross connection control which will effectively prevent the contamination or pollution of all SVWC's potable water systems by cross connection.

III. **Authority**

A. The Federal Safe Drinking Water Act of 1974, and the State of Oregon, Administrative Rules Chapters 333-61-070 and 333-61-071, state that the SVWC has the primary responsibility for preventing water from unapproved sources, or any other substances, from entering its public potable water system.

B. SVWC Rules and Regulations, which are adopted and approved by the Oregon PUC, Salem, Oregon.

Issued.....4/18/96.....Effective May 1, 1996

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IV. Responsibility

SVWC is responsible for identifying, within its service territory, real and potential cross connection hazards to its water supply. Whenever the company requires the installation of a DVCA, repair or modification of an existing DVCA, the company, or its delegated agent, shall notify affected customers or property owners (customer) of the requirement in writing by mail within 10 days of identification. The written notice must identify the cross connection hazard(s), type and level of hazard(s), and approved DVCA(s) required to control hazard(s). The company shall also include with the notice a current list of certified DVCA inspectors and testers in the local area (other than the company's own staff). The company must also include a statement in its notification that the customer is free to choose who will perform the work, as long as all applicable rules and regulations are adhered to.

V. Administration

A. The company will operate a cross connection control program, to include the keeping of necessary records which fulfills the requirements of the Division's Cross Connection Regulations and the Public Utility Commission.

B. The customer may allow his property to be inspected for possible cross connections and shall follow the provisions of the company's program and the Division's regulations if a cross connection is identified. Should a customer refuse an inspection, an approved DVCA will be required to be installed in accordance with the company's tariffs and the Division's rules and statutes.

C. If the company requires that its water supply be protected by containment, the customer shall be responsible for water quality beyond the outlet end of the containment device.

VI. Requirements

A. Company

1. NEW DVCA INSTALLATIONS

The company will begin initial premise inspections to determine the nature of existing or potential hazards during the calendar year 1996. Initial focus will be on high hazard premises.

The company will provide, at the customer's reasonable convenience, an on-site evaluation and/or inspection of plans in order to determine the appropriate type of DVCA that may be required. The company will provide the customer with proper written notification, including

Issued.....4/18/96.....Effective May 1, 1996

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the required statement and list of certified DVCA inspectors and testers (see section IV - Requirements). The company may offer its own installation and testing services. The DVCA shall be installed by the customer, or the customer's choice of private contractor or SVWC. Inspections and annual testing will be done by the customer's choice of certified personnel.

Failure, refusal, or inability on the part of the customer to properly install and test required DVCAs within ninety (90) days of the mailing date of the notification shall constitute grounds for disconnecting water service to the premise. The company shall follow PUC's disconnection process set forth in OAR 860-21-0505

2. PREEXISTING DVCAs

The company will perform evaluations and/or inspections of DVCAs existing prior to the start of this program and inform the customer, by letter, of any corrective action deemed necessary, the method of achieving the correction, and the time allowed for the correction to be made within ninety (90) days (or less depending upon the degree of hazard involved and the history of the device(s) in question).

In the event the customer does not comply within the time allotted after receiving a proper written notice from the company, the company may disconnect the water service consistent with OAR 860-21-0305(2) and 860-21-0505. In the event that the customer informs the company of extenuating circumstances as to why the installation or correction has not been made, a time extension may be granted by the company, but in no case will the extension time exceed an additional thirty (30) days.

3. DISCONNECTION WITHOUT NOTICE

If the company has reasonable cause to believe that an extreme health risk to the public health exists, confirmed by the Oregon Health Division, the water service will be terminated immediately, without prior notice and the Public Utility Commission will be notified consistent with OAR 860-21-0315.

4. CERTIFIED CONTRACTORS

The company shall have on file and available to its customers a list of private contractors who are certified DVCA inspectors and testers.

B. Customer or Owner

1. The customer shall be responsible for the elimination or isolation of all cross connections on his premises.

2. The customer, after having been informed by letter from the company, shall install, maintain, repair, and annually test all DVCAs on his premises.

Issued 4/18/96 Effective May 1, 1996

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- 3. The customer shall be responsible for correcting any DVCA malfunctions revealed by periodic or annual testing.
- 4. All DVCA installation and repair will be the responsibility and expense of the customer, and shall be performed by the customer's choice of private contractor, according to all applicable rules and regulations.
- 5. All DVCA inspections and annual testing will be the responsibility and expense of the customer, and shall be performed by certified personnel of the customer's choice, according to all applicable rules and regulations.
- 6. The customer shall inform the company of any proposed or modified cross connections and existing cross connections of which the customer is aware but have not been identified by the company.
- 7. The customer shall not install a bypass around any DVCA, unless there is a DVCA of the same type on the bypass.
- 8. The customer shall install only Division-approved DVCAs commensurate with the identified level of hazard. Installation must be in accordance with requirements of the Division, the company, and any other governing standards. (See OAR 333-61-070(7) and OAR 333-61-071.)
- 9. Any customer having a private well or other private water source may not cross connect to the company's system without permission of the company. The company may deny such cross connection for reasonable cause. The company will provide a written denial to the customer and state the reasons for such denial. The customer may be required to install a backflow preventer at the service entrance if a private water source is maintained and cross connected to the company's system.
- 10. In the event the owner installs plumbing to provide potable water for domestic purposes which is on the company's side of the backflow preventer, such plumbing must have its own approved DVCA installed.

VII. Degree of Hazard

SVWC is responsible to identify cross connection hazards to its public water system. All cross connection hazards will be classified by type and level and will require the installation of an approved DVCA for that level of hazard.

VIII. Existing In-Use Backflow Prevention Devices

Any existing DVCA shall be allowed to continue in service unless the company determines that the level of hazard is such as to supersede the effectiveness of the DVCA and results in an unreasonable risk to the public health. Where the degree of hazard has increased, as in the case of a resi-

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dential installation converting to a business establishment, any existing non-approved DVCA's must be replaced with an approved DVCA suitable for that level of hazard. Preexisting assemblies shall be tested annually and perform satisfactorily. Some preexisting DVCA's may not have testing capability. See OAR 333-61-070(12).

IX. DVCA Testing

A. All DVCA's are required to be annually tested per OAR 333-61-070.

B. Annual testing shall be performed by a certified DVCA tester (of the customer's choosing, and at the customer's expense).

C. DVCA's may periodically be tested by SVWC's certified tester, if the company has reasonable proof that the device has a history of test failures. The company will be responsible for all costs associated with the periodic testing, except in cases where the device fails the periodic test. In such cases, the customer will bear the cost of the test, repairs, and/or replacement, and retesting. Situations involving extreme health risks, as defined by the Division, will not be allowed to continue if the DVCA fails the test and cannot be repaired immediately. The company may disconnect service without prior notice in accordance with OAR 860-21-0315 if an extreme health risk exists, as recognized and confirmed by the Division. In situations other than extreme health risks, a compliance date will be established of not more than ninety (90) days (or less depending upon the degree of hazard involved and the history of the device(s) in question) after the test date.

X. Records and Reports

A. Records

1. The company will initiate and maintain a written cross connection control program which shall include the following:

- a. A current master list of facilities, premises, and hazard level for each DVCA.
- b. A current list of certified inspector staff and work responsibilities.
- c. Provisions and initial inspection schedule.

2. The company shall maintain the following at its main office:

- a. Current records, dates, and pertinent information on all DVCA's installations, inspections, and test results.
- b. A current list of DVCA-certified testers and inspectors in the area (name, address, and telephone number).

B. Reports

Issued 4/18/96 Effective May 1, 1996

Issued by SALMON VALLEY WATER COMPANY.

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The company will submit the following to the Division:

1. Annual summary of cross connection inspections.

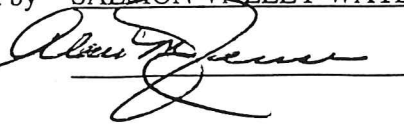
XI. **Fees and Charges**

The company may publish and make available to the public a list of fees or charges for company-certified nonregulated services for installation and testing of DVCA's.

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