



CITY OF TUKWILA
Public Works Department
206-433-0179

BULLETIN A9

CROSS CONNECTION CONTROL

September 13, 1999

Subject: Public Works Department Policy 99-01
Cross-Connection Control Program

References:

Chapters 19.27 and 70.92 Revised Code of Washington (RCW)
Chapters 51-40, 51-44, 51-45, 51-46, 51-47, and 246-290 Washington
Administrative Code (WAC)
Uniform Building Code, Standards and Amendments
Uniform Plumbing Code, Standards and Amendments
Group A Public Water Systems, Washington State Department of Health
Chapters 14.06 and 16.04 of the Tukwila Municipal Code
American Water Works Association (AWWA) Cross Connection Control Manual
City of Tukwila Infrastructure Design and Construction Standards

Authority

In order to promote the health, safety and welfare of the occupants or users of buildings and structures and the general public, Chapters 19.27 and 70.92 of the RCW requires the use of building codes. Chapter 51-40 of the WAC adopted the Uniform Building Code, and Chapters 51-46 and 51-47 adopted the Uniform Plumbing Code. Chapter 246-290 of the WAC gives broad oversight responsibility to the Department of Health over the design, construction, and operation of public water systems in Washington.

Chapter 16.04 of the Tukwila Municipal Code (TMC) adopted the Uniform Building Code, the Uniform Plumbing Code, and their amendments as the standards to be used for the protection of the health, safety and general welfare of the public governing the creation, construction, enlargement, conversion, alteration, repair, occupancy, use, height, sanitation, and maintenance of all buildings and structures within the City of Tukwila.

In addition to the aforementioned Uniform Codes, Chapter 14.04 of the TMC requires that the American Water Works Association Standards, the American Public Works Association Standards and the Tukwila Public Works Department Standards (Infrastructure Design and Construction Standards) shall be met. Chapter 14.04 also applies to any and all water system installations. Chapter 14.06 of the TMC addresses the requirements associated with the installation of backflow prevention devices.

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Applicability

All community water systems shall comply with the cross-connection control requirements specified in Washington State Department of Health Group A Public Water Systems guidelines and implement a cross-connection control program. The purpose of the cross-connection control program shall be to protect the public water systems from contamination via cross-connections. The program requires that the City of Tukwila ensure that cross-connections between the distribution system and a consumer's water system are eliminated or controlled by the installation of an approved (listed in DOH Publication #331-090) backflow device commensurate with the degree of hazard and that the devices are inspected and/or tested annually. The City of Tukwila will ensure that all backflow prevention assemblies are models included on the current list approved for use in Washington State.

Implementation

- For New Connections

For new connections, the City of Tukwila shall ensure that backflow protection, commensurate with the degree of hazard, is installed before water service is provided.

- For Existing Systems

The City of Tukwila will evaluate the existing service connection when the consumer applies for a Development Permit, including a Tenant Improvement (TI) Permit. The evaluation procedure will involve the following:

(1) If the TI project includes any alterations to the existing plumbing system, then the entire plumbing system must be brought up to the current standards as set forth in the Uniform Plumbing Code, including the installation of an approved backflow prevention device.

(2) If the TI project does not include any changes to the existing plumbing system, then such systems lawfully in existence at the time of installation may have their use, maintenance or repair continued if the use, maintenance, or repair is in accordance with the original design and location and no hazard to life, health or property has been created by such plumbing system.

To determine if the existing system poses a health hazard, the City will query its database to see if an approved backflow prevention device is in place and if annual inspections and tests have been performed.

- (a) If an approved device exists and it has been properly maintained and tested, then no further action is required.
- (b) If an approved device exists, but there are no records that the annual tests have been performed, the consumer will be requested to have the device tested immediately. If the device passes the test, no further action will be

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required and the consumer will be reminded to have the tests performed annually and submitted to the City.

- (c) If the approved device fails the test, then a health hazard is deemed to exist and an approved backflow prevention device must be installed as part of the development project.

If there is no record in the City's database that indicates the consumer has an approved device, and if inspection of the consumer's system verifies that an approved device does not exist, then a health hazard is deemed to exist and an approved backflow prevention device must be installed as part of the development project.

Enforcement

When an existing approved device fails its annual test or an approved device does not exist, then a health hazard is deemed to exist and the consumer will be required to install an approved backflow prevention device as part of their proposed development project. A permit will not be issued until the approved device has been included in the project.