UTILITIES - SERVICES

Chapter 649 BACKFLOW - PREVENTION

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Article 1 INTERPRETATION

649.1.1 ASSE - defined

"ASSE" means the American Society of Sanitary Engineering.

649.1.2 AWWA - defined

"AWWA" means the American Water Works Association.

649.1.3 Authorized Functions List - defined

"Authorized Functions List" means the list of functions and the persons authorized to carry out such functions as set out as Appendix 'A' of this Chapter.

649.1.4 Backflow - defined

"backflow" means the flowing back of or reversal of the normal direction of flow of water.

649.1.5 Backflow prevention device - defined

"backflow prevention device" means a device that prevents backflow.

649.1.6 Building - defined

"building" shall have the same meaning as set out in the *Building Code Act, 1992*, as amended.

649.1.7 City - defined

"City" means The Corporation of the City of Brantford.

649.1.8 Compliance schedule - defined

"compliance schedule" means the schedule by which property owners will be required to submit cross-connection surveys for their property, or install appropriate backflow prevention devices.

649.1.9 Cross-connection - defined

"cross-connection" means any actual or potential connection between the City's potable water supply and any source of pollution or contamination and includes any by-pass, jumper connection, removable section of pipe, auxiliary water supply, swivel or changeover device and any other temporary or permanent connecting arrangement through which backflow may occur.

649.1.10 Cross-connection survey form - defined

"cross-connection survey form" means the form set out as Appendix 'C' of this Chapter.

649.1.11 CSA Standard - defined

"CSA Standard" means the document entitled National Standard of Canada -CAN/CSA-B64.10-94 & Amendments - Manual for the Selection, Installation, Maintenance, and Field Testing of Backflow Prevention Devices - Plumbing Products and Materials - A National Standard of Canada published in 1994 by the Canadian Standards Association, as amended.

649.1.12 General Manager - defined

"General Manager" means the General Manager, Engineering and Operational Services or designate.

649.1.13 Hazard - defined

"hazard" means degree of danger posed to health by a cross-connection. Hazards shall be divided into the following three categories, as per section 4.2 of the CSA Standard:

- (a) minor hazard any cross-connection or potential cross-connection that constitutes only a nuisance, with no possibility of any health hazard;
- (b) moderate hazard any minor hazard as defined in item (a) that has a low probability of becoming a severe hazard;
- (c) high or severe hazard any cross-connection or potential cross-connection involving any substance that could be a danger to health.

649.1.14 Owner - defined

"owner" means any person, firm or corporation having control over property to which this Chapter applies and includes the owner registered on the title of the property or any occupant of any building or structure located on such property.

649.1.15 Potable water - defined

"potable water" means water that is safe for human consumption.

649.1.16 Premise isolation - defined

"premise isolation" means isolation of the water located within a property from the City's water supply.

649.1.17 Selection guide - defined

"selection guide" means the Backflow Prevention Device Selection Guide set out in Table B1 of Appendix 'B' of the CSA Standard.

649.1.18 Structure - defined

"structure" means anything constructed or built permanently or temporarily which is provided with a source of City's potable water.

649.1.19 Survey - defined

"survey" means a cross-connection survey which is a complete review of a water system that receives potable water from the City or systems located within a property to determine if any cross-connection exists.

649.1.20 Tester - defined

"tester" means a person who meets the requirements provided under section 6.1.5.1 of the CSA Standard and is recognized by the City as per the Authorized Functions List in Appendix 'A'.

649.1.21 Test report - defined

"test report" means a report in the form set out as Appendix 'D' of this Chapter.

649.1.22 Water meter - defined

"water meter" means the water meter installed within a premises to record the amount of water supplied to such premises by the City.

Article 2

APPLICATION OF CHAPTER

649.2.1 All properties - exception - single - residential

This Chapter applies to all existing industrial, commercial, institutional and multi-residential properties located within the City that receive it's potable water except properties of residential buildings with 3 storeys or less in building height and single family dwellings.

649.2.2 Exception - hazardous - detrimental situation

In addition to and notwithstanding Section 649.2.1, this Chapter applies where a condition exists in any building that is determined by the General Manager to be hazardous or detrimental to the potable water supply.

649.2.3 Owner - property - responsibility

Every owner of property to which this Chapter applies shall ensure that a backflow prevention device is installed in respect of premise isolation where a City's potable water supply exists.

Article 3

PERSONS PERMITTED TO CARRY OUT WORK

649.3.1 Listed - Authorized Functions List - Appendix 'A' Only the persons listed in the Authorized Functions List, Appendix 'A', shall carry out the corresponding functions set out in such list.

Article 4

CROSS-CONNECTION SURVEYS AND SELECTION OF BACKFLOW PREVENTION DEVICES

649.4.1 Owner - responsible for initial survey

Every owner of a property of a type set out in Article 2, shall, carry out an initial survey of each of his or her properties with respect to all existing cross-connections and all existing and required backflow prevention devices as per the Compliance Schedule as set out in Appendix 'B'.

649.4.2 Survey - permitted person - submitted - within 14 days

Every owner shall ensure that the survey required in Section 649.4.1 is carried out by a person permitted to do so pursuant to the Authorized Functions List, Appendix 'A' and that the survey is provided to the City within fourteen days of the survey being completed.

649.4.3 Owner to ensure device - testable - proper

Every owner shall ensure that every backflow prevention device required for premise isolation on its property is a testable device and is the proper device to be used pursuant to Article 6 of this Chapter.

649.4.4 Devices - as approved only - information requirement

Backflow prevention devices for premise isolation shall be determined using the Selection Guide in CAN/CSA-B64.10-94, as amended. If the type of cross connection is not identified in the Selection Guide, it shall be determined by a Professional Engineer using the CSA Standard. The Professional Engineer must provide the rationale for selection of the device and provide this information on Appendix 'C', Cross-Connection Survey Form.

649.4.5 Cross connection - type not specified

Despite Article 6, when the type of cross-connection is not identified in the Selection Guide, the City may require that a particular backflow prevention device be used in respect of any cross-connection.

649.4.6 Cross connection - reviewed by surveyor

Despite Article 6 where the manufacturer of equipment has installed a source backflow prevention device, the cross-connection is required to be reviewed by the surveyor listed in Appendix 'A' to determine if the backflow prevention device meets the requirements of the Selection Guide. Cross connections of this type are required to be included on the Cross Connection Survey described in Appendix 'C'.

649.4.7 Dual check valve - use - prohibited

Despite section 4.3.4.2(a) of the CSA Standard, a dual check valve device shall not be used for premise isolation.

649.4.8 **Process - operational change - survey - required**

When the owner of a property of a type set out in Article 2 makes any process or operational changes that may increase the hazard level, he or she shall perform a survey within thirty days of completion of the changes and that the survey shall be provided to the City within four-teen days of the survey being completed.

649.4.9 Survey - follow-up - every five years - conditions

On the fifth year of the anniversary of the initial survey, and every five years thereafter, a follow-up survey must be performed and submitted to the City within fourteen days of completion. If no operational or process changes were made within the previous five-year period of time, the owner may indicate this on the Survey Form and forego the requirement to perform a new survey.

649.4.10 Reduced pressure backflow device - use - conditions

The owner will be exempted from the requirement to perform a survey if premises are isolated with an existing reduced pressure principle assembly (RP) backflow prevention device or if the owner chooses to install one. The owner shall either provide proof of an existing RP or notify the City of his or her intention to install an RP before the initial survey completion date. If the owner chooses to install an RP, the deadline to install shall be January 31, 2009.

Article 5

INSTALLATION OF BACKFLOW PREVENTION DEVICES

649.5.1 Installation - maintenance - as per CSA standards

Except as otherwise set out in this Chapter, the installation, maintenance and field-testing of backflow prevention devices shall be in accordance with the CSA Standard.

649.5.2 Installation - requirements

Every person installing a backflow prevention device shall ensure that:

- (a) such device is installed in accordance with acceptable engineering practices and the requirements of the Ontario Building Code, Ontario Regulation 350/06, as amended, this Chapter, the Installation Guide and the CSA Standard;
- (b) such device is installed in a building or structure;
- (c) such device is located in such a manner so that in the event of a backflow condition the device prevents contamination of the City's water supply;
- (d) where such device is installed in respect of premise isolation, such device is located not more than 3.0 metres (9.84 feet) downstream of the water meter, except where circumstances require the device to be installed upstream of the water meter and such location is authorized by the General Manager;
- (e) where such device is installed in respect of premise isolation, no connection shall be made between the property line and the backflow prevention device, unless authorized by the General Manager (all piping between the property line and such device is clearly labelled "No Connection Permitted").

649.5.3 Device - operational - at all times - owner responsibility Every owner of property upon which a backflow prevention device is installed shall ensure that such device is in proper working order at all times.

649.5.4 Device installation - building permit - required

A building permit shall be required pursuant to the *Building Code Act*, *1992*, as amended to install a backflow prevention device. The owner or agent of the owner is responsible for acquiring all applicable permits.

649.5.5 Installation - deadlines - set out

Installation of an appropriate backflow prevention device shall occur prior to the date set out below for the corresponding degree of hazard:

| Degree of Hazard According To Selection Guide | Compliance Schedule |
|--|------------------------|
| Severe | January 31, 2009 |
| Moderate | June 30, 2009 |
| Minor | December 31, 2009 |

Article 6 TESTING OF DEVICES

649.6.1 Owner - responsibility - testing - reporting - repair

Every owner who has a backflow prevention device located on his or her property shall ensure that:

- (a) such device is tested by a tester when it is first installed and annually thereafter or when requested by the City and also when it is cleaned, repaired, replaced, overhauled or relocated;
- (b) when such device is tested, a Test Report, as attached as Appendix 'D', is to be provided to the City within fourteen days of the test being conducted;
- (c) in the event that such device is malfunctioning or otherwise not in proper working order, the device shall be immediately repaired or replaced; and
- (d) all existing backflow prevention devices shall be tested by no later than June 30th, 2008.

649.6.2 Testing - requirements

Every person who tests a backflow prevention device shall carry out such testing in accordance with this Chapter and the CSA Standard.

649.6.3 Testing - additional methods

In addition to the testing methods set out in section 6 of the CSA Standard, test procedures established by the ASSE or AWWA for testing backflow prevention devices may be employed.

649.6.4 Test report prepared - after each testing

Despite section 6.3.1 of the CSA Standard, every person who tests a backflow prevention device shall prepare a test report.

649.6.5 Testing - tag affixed - owner notified if defective

Every person who tests a backflow prevention device shall:

- (a) upon completing such test, complete and affix a "Test Tag", to the device or immediately adjacent to the device on the piping connected thereto; and
- (b) upon finding that such device is malfunctioning or otherwise not in proper working order, immediately notify the owner or agent of the owner of the premises and the City of such condition.

Article 7 GENERAL PROVISIONS

649.7.1 Inspection - by City - at any reasonable time

The City may at any reasonable time enter onto the property of any owner to inspect the potable water system for compliance with this Chapter.

649.7.2 Non-compliance order - water shut off - owner expense Where the City finds that a condition exists on any property that may allow contamination of the City's water supply, including any residential building, the City may:

- (a) order the owner to eliminate the condition and in doing so may prescribe the time period for compliance with such Order; or
- (b) shut off the water supply to the property or any portion thereof until the condition is eliminated;
- (c) have such work done at the owner's expense and may recover the costs by adding the costs to the tax roll and collect them in the same manner as taxes if in default of compliance with such Order.

649.7.3 City - may order tests - reports - other

In addition to any other provision of this Chapter, the City may at any time order an owner to conduct tests, provide reports and undertake any other measures required for the prevention of backflow or protection against a cross-connection.

649.7.4 Time frame specified - extension - compliance program

Where a time frame is set out in this Chapter for carrying out any action, the General Manager may extend the time for compliance beyond the established time frame and the owner may be required to enter into a compliance program through a separate agreement.

649.7.5 Variance - compliance - General Manager approved

A variance from complying with any condition of this Chapter may be approved by the General Manager if reasonable justification is provided.

649.7.6 Appendices - set out

Appendices 'A' through 'D' inclusive and the CSA Standard shall form part of this Chapter.

Article 8 GENERAL PROHIBITIONS

649.8.1 Connection - allowing contamination - prohibited

No person or owner shall connect, cause to be connected, or allow to remain connected to the City's potable water supply, any other potable water system or any piping, fixture, fitting, container, appliance, vehicle, machine or the like in a manner which may under any circumstance allow water, waste water or any other liquid, chemical or substance to enter such supply or system.

649.8.2 Backflow device - removal - prohibited - exception

No person or owner shall remove a backflow prevention device after it has been installed and no owner of a property in which a backflow prevention device is installed shall cause or permit the removal of such device, unless such removal is:

- (a) to facilitate the repair of the device and such device is replaced immediately after such repair is carried out; or
- (b) to replace the device with another device that meets or exceeds the provisions of this Chapter.

649.8.3 Device - removal for repair - temporary restriction While any device is being repaired or replaced, no bypass or temporary water supply line shall be used unless it is equipped with a backflow prevention device of the same level of protection as the existing device.

Article 9 ENFORCEMENT

649.9.1 Fine - for contravention

Every person who contravenes any provision of this Chapter is guilty of an offence and upon conviction is liable to pay a penalty recoverable under the provisions of the *Provincial Offences Act*.

Article 10 ENACTMENT

649.10.1 Effective date

This Chapter shall come into full force and effect from and after the date of passing thereof. By-law 75-2007, 7 May, 2007.

APPENDIX

| Item | Function | ¹ Profes- sional Engineer with Tester's Licence | ² Certified Engineering Technolo- gist with Tester's Licence | Licensed Master Plumber with Contractor and Tester's Licence | ³ Journey- man Plumber with Tester's Licence | ⁴ Apprentice Plumber with Tester's Licence | | | |
|------|--|--|--|---|--|---|--|--|--|
| 1 | Perform Cross- Connection Survey | х | х | х | х | | | | |
| 2 | 5 Install, Re- pair, Relocate or Replace Backflow Pre- vention Device | | | х | х | x | | | |
| 3 | Test Backflow Prevention De- vice | Anyone with a Tester's Licence as per CAN/CSA-B64.10-94, as amended, is permitted. | | | | | | | |

Appendix 'A' - Authorized Functions List

- 1 An in-house Professional Engineer in a related field may perform survey at their own facility without a tester's licence.
- 2 Required to be under the direction of a Professional Engineer.
- 3 Required to be employed by a licensed Plumbing Contractor.
- 4 Required to be employed by a licensed Plumbing Contractor and under the direct supervision of a Journeyman Plumber or Master Plumber.
- 5 In-house maintenance staff are permitted to do repairs, if they have a tester's licence.

By-law 75-2007, 7 May, 2007; Appendix 'A'.

Appendix 'B' - Compliance Schedule

Compliance Schedule for Completion of the Cross-Connection Survey

| Meter Size | Due Date |
|--------------------|--------------------|
| 4", 3", 2", 1 1/2" | January 31, 2008 |
| 1" | March 31, 2008 |
| 3/4" | June 30, 2008 |
| 5/8" | September 30, 2008 |

By-law 75-2007, 7 May, 2007; Appendix 'B'.

| Survey | ng System atem address: hone #: hone #: hone #: fri Device Device Date: | - APPENDIX C | | Moderate Severe | | Remarks | | | | | | | | | |
|--|---|--|----------|-------------------|----------|---------|-------|--|--|--|--|----------------------------------|-------|---|----------------------------------|
| artment artment artment artment artment artment artment Nallington Square, Plumbing System 759-4150 arts Star System 759-4150 arts Phone #: | Building Department Plumbing System City Hall, 100 Wellington Square, Plumbing System Brantford, Ontario, N3T SR7 Provestion Fax: 519-752-1874 Phone: 519-752-1874 Phone: 519-752-1874 Phone: Start Graphic Brance: Address: Phone: Start Graphic Brance: Protection Cost Connection Acceptable Service what equip. etc. Protection Service what equip. etc. Protection <t< td=""><td>Cross Connection Survey</td><td></td><td>Hazard Level: Low</td><td>Company:</td><td></td><td>below</td><td></td><td></td><td></td><td></td><td>nerein is complete and accurate.</td><td></td><td></td><td>nerein is complete and accurate.</td></t<> | Cross Connection Survey | | Hazard Level: Low | Company: | | below | | | | | nerein is complete and accurate. | | | nerein is complete and accurate. |
| artment Vellington Square, T52-1874 752-1874 752-1874 752-1874 752-1874 700 752-1874 700 700 700 700 700 700 700 7 | Building Department City Hall, 100 Wellington Square, Brantford, Ontario, N3T SR7 Brantford, Ontario, N3T SR7 Brantford, Ontario, N3T SR7 Brantford, Cross Connection me: ane: usiness Owner: usiness Owner: Docation of Cross Connection Fax: Service what equip. etc. Y/N2 Service what equip. etc. Y/N2 resident Fax: Infinition Service what equip. etc. Y/N2 Service what equip. etc. Y/N2 resident Fax: Service what equip. etc. Y/N2 Fax: Service what equip. etc. Y/N2 Fax: Service what equip. etc. Y/N2 Fax: Service what equip. etc. The best of my knowledge, the rest | Plumbing System Fire System Irrigation System | Address: | Phone # | Phone #: | | | | | | | information contained I | Date: | the survey. tes No urvey and sign below: | : information contained |
| | Building Dep Erantford, O Brantford, B Building Dep Brantford, O Brantford, B Building Dep Brantford, O Brantford, O Brantford, B Building Dep Brantford, O Brantford, O Brantford, O Brantford, O Brantford, B Building Dep Brantford, O Brantford, B Building Dep Brantford, O Brantford, B Building Dep Brantford, O Brantford, O Brantford, B Building Dep Brantford, O Brantford, B Building Dep Brantford, B Building Dep Brantford, O Brantford, B Building Dep Brantford, B Building Dep Building Dep B | artment 3 Wellington Square, ntario, N3T 5R7 -752-11874 | | | | | | | | | | o the best of my knowledge, the | | If No, complete t ges made in the last 5 years? Y her may forego completion of si | o the best of my knowledge, the |

| | 18 | 10 | 18 | |
|----|-----|------|-----|----|
| | 16 | 12 | 1 | |
| Di | 15 | 1201 | ZOT | T |
| ĐК | AIN | 111 | 99H | 11 |

Building Department City Hall, 100 Wellington Square, Brantford, Ontario, N3T 587 Phone: 519-759-4150 Fax: 519-752-1874

APPENDIX D **Backflow Prevention Device Inspection and Testing Report**

To be completed clearly & submitted by fax or mail within 14 days of test to: Building Department City Hali, P.O. Box 818, Brantford, N3T SR7

| Facility Information | | | | | | | |
|---|--------------------|----------------|--------------|--------------|---------------|------------|------------|
| Building Address: | | | | 1 | Postal | | |
| Owner: | | | | | Phone | | |
| Owner's Address: | | | | 1 | Postal | | |
| Occupant: | | | | 1 | Phone | | |
| Contact Name: | | | 1 | Phone | | | |
| Tester Information | | | | | | | |
| Name: | | | | 1 | Phone | | |
| Address: | | | | | Postal | | |
| Certificate Number: | | | Test Gau | | | | |
| Date Last Calibration: | | | Contra resta | 5-940409.000 | | | |
| Device Information | | | Date o | f Test | / | /20 | |
| Location (room/floor/serving equip/etc.) _ | | | | | | | |
| | | | | | | | |
| Type of Assembly RPZ DCVA | PVB | | | sure | | PSI | |
| Make | | | Size | | | | |
| Model | | | | | | | |
| Serial Number | - | | Device T | agged? | _Yes | No | |
| Test Information - Type of Tes | tInitial | Annual | | Re-test | Pas | sed _ | Failed |
| Reduced Pressure Principle Assembly | | | | | | | |
| Check Valve #1 | Check Valve #2 | | | Differentia | Press. Relie | f Valve | |
| Leaked | Leaked | | | Failed t | | | |
| Closed Tight | Closed Tight | | | Opened | at | psi | |
| Press. Diff. #1 Check psi | Press. Diff. #2 Ch | neck | | | | | |
| | | | | | Vacuum Bri | eaker | |
| Shut off Valve #2 | | | | Air Inlet Va | | | |
| Leaked Closed Tight | | | | _ Failed t | o Open | | |
| Double Check Valve Assembly | | | | 1 00000 | at | 25 | |
| Check Valve #1 | Check Valve #2 | | | Check Valy | | hai | |
| Differential Press, Reli | | | | _ Leaked | re . | | |
| Leaked | Leaked | | | Closed | Tight | | |
| Failed to Open | Leaked | | | - cioseu | ngne | | |
| Closed Tight | Closed Tight | | | Brace Diff | Across Che | el. | nei |
| Opened at psi | closed light | | | Press. Diri | Across cires | | - Poi |
| Press. Diff. #1 Check psi | Press. Diff. #2 Ch | and a | | | | | |
| Shut off Valve #2 | eress, print 42 Gr | 100A | | Tf davica | faile tacte f | or any re: | son please |
| Leaked Closed Tight | | | | | in space pr | | |
| LeakedClosed light | | | | comment | in space pr | ovided be | 2000 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | _ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | _ | |
| I certify that I have tested the above asse | mbly in accordance | to the City of | Brantford | Backflow Pre | vention Byla | w Number | 649. |
| Tester's Signature | | | | | | | /20 |
| | | | | | | | |

NOTE: Submit one report per device to City of Brantford Building Department within 14 days of testi

Appendicus CD R. and A New de - Appendix D