

Ordinance 349

CROSS CONNECTION CONTROL PROGRAM

Town of Dubach
PO Box 252
Dubach, LA 71235

January 2, 2015

Approved February
Date 2/17/2015

PREFACE

The purpose of this policy is to protect the public water supply from the possibility of contamination. The customer's distribution system is isolated with backflow preventers so that the contaminants cannot backflow or back-siphon into the public water supply.

TOWN OF DUBACH
CROSS CONNECTION CONTROL PROGRAM GUIDELINE

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Section 1. Cross Connection Control – General Policy

1.1 Purpose. The purpose of this Ordinance is:

1.1.1 To protect the public potable water supply of the Town of Dubach from the possibility of contamination or pollution by isolating within the consumer's internal distribution system(s) or the consumer's private water system(s) such contaminants or pollutants which could backflow into the public water systems; and,

1.1.2 To promote the elimination or control of existing cross-connections, actual or potential, between the consumer's in-plant potable water system(s) and non-potable water system(s), plumbing fixtures and industrial piping systems; and,

1.1.3 To provide for the maintenance of a continuing Program of Cross-Connection Control which will systematically and effectively prevent the contamination or pollution of all potable water systems.

1.2 Authority.

1.2.1 The Federal Safe Drinking Water Act of 1974, and the Louisiana Administrative Code, Title 51 and Section D106 of the Louisiana State Plumbing Code (LSPC), 2000 Edition state that the water system has the primary responsibility for preventing water from unapproved sources, or any other substances, from entering the public potable water system.

1.2.2 The Town of Dubach Water Department, Rules and Regulations, adopted.

1.3 Responsibility.

1.3.1 The Director of Municipal Services shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow of contaminants or pollutants through the water service connection. If, in the judgment of said Water Supplier or Plumbing Official, an approved backflow prevention assembly is required (at the consumer's water service connection; or, within the consumer's private water system) for the safety of the water system, the Water Supplier, Plumbing Official, or his designated agent shall give notice in writing to said consumer to install such an approved backflow prevention assembly(s) at a specific location(s) on his premises. The consumer shall have 90 days to install such an approved backflow prevention assembly(s) at the consumer's own expense; and, failure, refusal or inability on the part of the consumer to install, have tested and maintained said assembly(s), shall constitute grounds for discontinuing water service to the premises until such requirements have been satisfactorily met.

Section 2. Definitions

2.1 General. Words not defined herein shall have the meanings stated in the LSPC or the other chapters of the Louisiana State Sanitary Code.

2.2 Definition of Terms.

- A. Approved-Accepted by the Director of Municipal Services as meeting an applicable specification stated or cited in this regulation, or as suitable for the proposed use.
- B. Approved Backflow Prevention Assembly - an assembly that has been approved by the administrative authority having jurisdiction which meets the standards listed in Table 609 of the LSPC. Also a device or means 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 bibb vacuum breaker, residential dual check, double check with intermediate atmospheric vent, and barometric loop.
 - 1. 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 pipe diameter but never less than one (1) inch.
 - 2. Atmospheric Vacuum Breaker-A device which prevents backsiphonage by creating an atmospheric vent when there is either a negative pressure or sub atmospheric pressure in a water system.
 - 3. Barometric Loop-A fabricated piping arrangement rising at least thirty-five (35) feet at its topmost point above the highest fixture it supplies. It is utilized in water supply systems to protect against backsiphonage.
 - 4. 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, plus properly located test cocks for the testing of each check valve.
 - 5. Double Check Valve with Intermediate Atmospheric Vent-A device having two (2) spring loaded check valves separated by an atmospheric vent chamber.
 - 6. Hose Bibb Vacuum Breaker-A device which is permanently attached to a hose bibb and which acts as an atmospheric vacuum breaker.
 - 7. Pressure Vacuum Breaker-A device containing one or two independently operated spring loaded 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).
 - 8. Reduced Pressure Principle Backflow Preventer-An assembly consisting of two (2) independently operating approved check valves with an automatically operating

quality of the water to a degree which does not create an actual hazard to the public health but which does adversely and unreasonably effect such water for domestic use.

- P. Water Service Entrance-That point in the owner's water system beyond the sanitary control of the District; generally considered to be the outlet end of the water meter and always before any unprotected branch.
- Q. Director of Municipal Services-The Director, or his delegated representative in charge of the Town of Dubach Department of Municipal Services, is invested with the authority and responsibility for the implementation of a cross-connection control program and for the enforcement of the provisions of the ordinance.

Section 3. Requirements

3.1 Water System.

3.1.1 The water system shall be considered as made up of two parts: The Water Supplier's System and the Consumer's System.

3.1.2 Water Supplier's System shall consist of the source facilities and the distribution system; and shall include all those facilities of the water system under the complete control of the utility, up to the point where the consumer's system begins.

3.1.3 The source shall include all components of the facilities utilized in the production, treatment, storage, and delivery of water to the distribution system.

3.1.4 The distribution system shall include the network of conduits used for the delivery of water from the source to the consumer's system.

3.1.5 The consumer's system shall include those parts of the facilities beyond the termination of the water supplier distribution system which are utilized in conveying potable water to points of use.

3.2 Policy.

3.2.1 No water service connection to any premise shall be installed or maintained by the Water Supplier unless the water supply is protected as required by this Ordinance for the Control of Backflow & Cross Connections and by the applicable cross connection requirements contained in Chapter 6 (Water Supply and Distribution) and Appendix D (Cross Connection Control) of the LSPC.

3.2.2 Service of water to any premises shall be discontinued by the Water Supplier if an approved backflow prevention assembly is not installed, tested and maintained, or if it is found that a backflow prevention assembly has been removed, bypassed, or if an unprotected cross-connection exists on the premises. Service will not be restored until such conditions or defects are corrected.

3.2.3 On new installations, the Water Supplier will provide onsite evaluation and/or inspection of plans in order to determine the type of backflow preventer, if any, that will be required.

3.2.4 The consumer's system should be open for inspection at all reasonable times to authorized representatives of the Town of Dubach Water System to determine whether unprotected cross-connections or other structural or sanitary hazards, including violations of these regulations, exist. When such a condition becomes known, the Town of Dubach will notify the consumer by letter on specific violations and shall require 90 days for installation, repair, or replacement of an approved backflow prevention assembly, or shall deny or immediately discontinue service to the premises by providing for a physical break in the service line until the consumer has corrected the condition(s) in conformance with the Louisiana Administrative Code, Title 51, and Part XIV, Titled Plumbing; Also referred to as the Louisiana State Plumbing Code, 2013 Edition

(LSPC) Section 609 (Protection of Potable Water Supply).

3.2.5 The consumer shall be responsible for the elimination or protection of all cross-connections on his premises. The consumer, after having been informed by letter from the Department, shall at his expense install, maintain, and test, or have tested, any and all backflow preventers on his premises. The consumer shall also correct any malfunction of the backflow preventer which is revealed by periodic testing.

3.2.6 An approved backflow prevention assembly shall be installed in an accessible location on the service line immediately downstream of the water meter (if provided), otherwise, it shall be installed in an accessible location on the water service pipe adjacent to the connection with the public water system prior to any branches or connections wherever such action is deemed necessary to protect the water supply system against potential contamination caused by backflow of water from the customers system. The following conditions are examples of when approved backflow prevention assemblies would be required for containment:

a. In the case of premises having an auxiliary water supply which is not or may not be of safe bacteriological or chemical quality and which is not acceptable as an additional source by the Town of Dubach, the public water system shall be protected against backflow from the premises by an approved air gap or an approved reduced pressure principle backflow prevention assembly.

Note: The Town of Dubach may require a backflow prevention assembly at the service connection to premises where there is an auxiliary water supply, even though there are no existing cross connections.

b. In the case of premises having intricate plumbing and piping arrangements where entry to all portions of the premises is not readily accessible for inspection purposes, or where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete in-plant cross-connection survey, the public water system shall be protected against backflow from the premises by either an approved air gap or an approved reduced pressure principle backflow prevention assembly on each service to the premise.

c. In the case of any premise where there is water or substance that would be objectionable but not hazardous to health, if introduced into the public water system, the public water system shall be protected by an approved double check valve backflow prevention assembly. Some common examples of premises where these conditions will exist include fire protection/sprinkler systems (without antifreeze), multistoried office/commercial buildings (over 3 floors), jails, prisons, and other places of detention or incarceration,

d. In the case of any premise where there one or more potential cross connections considered to be high hazard, the public water system shall be protected by an approved air gap or an approved reduced pressure principle backflow prevention assembly. Some common examples of premises where these conditions will exist include sewage treatment plants, sewage pumping stations, chemical or petroleum manufacturing/processing plants,

marinas, docks, car wash systems, facilities with fire protection/sprinkler system using antifreeze, automobile manufacturing or repair shops, hospitals, funeral homes, mortuaries and plating plants.

e. In the case of any premise where there are unprotected cross-connections within the consumers plumbing system, either actual or potential, the public water system shall be protected by an approved air gap or an approved reduced pressure principle backflow prevention assembly at the service connection.

f. If the cross connection is not specifically listed in Table D104 of the LSPC Appendix D, refer to Table 609 (Backflow Prevention Devices) of the LSPC, particularly the "Manual for the Selection, Installation, Maintenance, and Field Testing of Backflow Prevention Devices" (Standard - CAN/CSA-B64.10) to determine what approved backflow prevention assembly shall be used to contain the customers system from the public water system.

3.2.7 Any backflow prevention assembly required herein shall be a make, model and size approved by the Town of Dubach. The term "Approved Backflow Prevention Assembly" shall mean an assembly that has been approved by the administrative authority having jurisdiction which is manufactured in full conformance with the standards listed in the following Table:

LSPC, Table 609 Backflow Prevention Devices	
MATERIALS	STANDARDS
Air Gap Standards	ASMEA112.1.2
Backflow Preventers, Double Check Valve Assembly	ASSE 1015, ANSI/AWWA C510
Backflow Preventers with Inter-mediate Atmospheric Vent	ANSI/ASSE 1012
Backflow Preventers, Double Check Detector Assembly	ANSI/ ASSE 1048
Backflow Preventers, Hose Connection	ANSI/ASSE 1052
Backflow Preventers, Reduced Pressure Detector Assembly	ANSI/ASSE 1047
Backflow Preventers, Reduced Pressure Principle Assembly	ASSE 1013, ANSI/AWWA C511
Dual Check Valve Type Backflow Preventer	ASSE 1032, For carbonated beverage dispensers-post mix type
Field Test Procedures for Backflow Preventer Assemblies	ASSE 5010
Manual for the Selection, Installation, Maintenance and Field Testing of Backflow Prevention Devices	CAN/CSA-B64.10
Vacuum Breakers, Anti-Siphon, Pressure Type Assembly (Outdoor Use)	ASSE 1020
Vacuum Breakers-Atmospheric Pipe Applied	ANSI/ASSE 1001
Vacuum Breakers, Back Siphonage, Pressure Type Assembly (Spill Resistant)	ANSI/ASSE 1056
Vacuum Breakers, Hose Connection	ANSI/ASSE 1011
Vacuum Breakers, Hose Connection Vacuum Breakers, Laboratory Faucet	ANSI/ASSE1035
Vacuum Breaker Wall Hydrants, Frost Resistant Automatic Draining	ASSE 1019
Water Closet Rush Tank Fill Valves (Ballcocks)	ANSSE 1002

3.2.8 It shall be the duty of the consumer at any premise where backflow prevention assemblies

are installed to have a field test performed by a certified backflow prevention assembly tester upon installation; when cleaned, repaired or overhauled; when relocated; annually; and as required by the Town of Dubach in instances where the Town of Dubach deems the hazard to be great enough he may require field tests at more frequent intervals.

3.2.9 For annual testing, the Town of Dubach will have the consumer's backflow assembly tested by a certified backflow assembly tester (general tester) at the rate of \$150.00. This fee will be billed to the consumer annually. If the customer does not wish to have the Town of Dubach automatically test their existing backflow assembly, the responsibility will be of the consumers to have the assembly tested within the same month annually. If the consumer fails to have their assembly tested within the allowed time a fee of \$350.00 will be billed to the consumer and the Town of Dubach will have the assembly tested by an approved general tester. If the consumer chooses to hire an approved general tester and fails to produce a copy of the approved general tester's results to the Town of Dubach within 2 weeks of test, the Town of Dubach will have the assembly tested by an approved general tester and bill the consumer \$350.00.

3.2.10 These tests shall be performed by a plumber licensed by the State Plumbing Board of Louisiana who additionally holds a Water Supply Protection Specialist (WSPS) endorsement on his plumbing license or by a certified backflow assembly tester (general tester) who has been approved and listed on the Office of Public Health's website (<http://www.dhh.louisiana.gov/offices/publications.asp?ID=204&Detail=1965>). The Water Supplier shall have on file the list of certified backflow assembly testers.

3.2.11 The owner of the backflow prevention assembly, at his expense, shall have all assemblies installed, repaired, overhauled, relocated, or replaced only by a plumber licensed by the State Plumbing Board of Louisiana who additionally holds a Water Supply Protection Specialist (WSPS) endorsement on his plumbing license. Records of such tests, repairs and overhauls shall be kept by the owner of the backflow prevention assembly for at least 5 years, and copies shall be sent to the Town of Dubach no later than 2 weeks after tests, repairs and overhauls.

3.2.12 Any backflow preventer which fails during a periodic test will be repaired or replaced. When repairs are necessary, upon completion of the repair the device will be re-tested at owner's expense to insure correct operation. High hazard situations will not be allowed to continue unprotected if the backflow preventer fails the test and cannot be repaired immediately. In other situations, a compliance date of not more than thirty (30) days after the test date will be established. The owner is responsible for spare parts, repair tools, or a replacement device. Parallel installation of two (2) devices is an effective means of the owner insuring that uninterrupted water service during testing or repair of devices and is strongly recommended when the owner desires such continuity.

3.2.13 All presently installed backflow prevention assemblies which do not meet the requirements of this section but were approved devices for the purposes described herein at the time of installation and which have been properly maintained, shall, except for the field testing and maintenance requirements under subsection 3.2.8, be excluded from the requirements of these rules so long as the Town of Dubach is assured that they will satisfactorily protect the

water purveyor's system. Whenever the existing device is moved from the present location or requires more than minimum maintenance or when the Town of Dubach finds that the maintenance constitutes a hazard to health, the unit shall be replaced by an approved backflow prevention assembly meeting the requirements of this section.

3.2.14 The Town of Dubach is authorized to make all necessary and reasonable rules and policies with respect to the enforcement of this ordinance. All such rules and policies shall be consistent with the provisions of this ordinance and shall be effective 0 days after being filed with the Town Clerk of the Town of Dubach.

The foregoing ordinance was first read at the meeting of the ^{Town Council meeting} (name of governing body) of the Dubach (political jurisdiction) of Dubach on the 17 day of February, 2015 and adopted by the following called vote on motion of (Official).

Ayes: Ruby Key, Donna Lewis, Robert Colvin, Monique Roberts, Evelyn Graha
Noes: none
Abstaining: none
Absent: none

Approver: Robert W. Jensen, Mayor
(Official Title)

Attest:

Pamela Delp
(Clerk or Secretary)

maintenance requirements under subsection 3.2.8, be excluded from the requirements of these rules so long as the Town of Dubach is assured that they will satisfactorily protect the water purveyor's system. Whenever the existing device is moved from the present location or requires more than minimum maintenance or when the Town of Dubach finds that the maintenance constitutes a hazard to health, the unit shall be replaced by an approved backflow prevention assembly meeting the requirements of this section.

3.2.14 The Town of Dubach is authorized to make all necessary and reasonable rules and policies with respect to the enforcement of this ordinance. All such rules and policies shall be consistent with the provisions of this ordinance and shall be effective _____ days after being filed with the Town Clerk of the Town of Dubach.

The foregoing ordinance was first read at the meeting of the Town of Dubach of the Lincoln Parish of LOUISIANA on the 17th day of FEBRUARY, 2015 and adopted by the following called vote on motion of (Official).

Ayes: MONIQUE ROBERTS, ROBERT COLVIN, RUBY KEY, DONNA LEWIS, EVELYN GRAHAM
Noes: NONE
Abstaining: NONE
Absent: NONE

Approver *Robert Colvin*
(Official Title)

Attest:

Pamela Delp
(Clerk or Secretary)