



## Town of Clarkton North Carolina Cross Connection Control Ordinance

- (a) The purpose of this cross connection control article is to define the authority of the Town of Clarkton as the water purveyor in the elimination of all cross connections within its public potable water supply.
- (b) This article shall apply to all users connected to the Town of Clarkton public potable water supply regardless of whether the user is located within the town limits or outside of the town limits.
- (c) This article will comply with the Federal Safe Drinking Water Act (PL 93-523), the North Carolina State Administrative Code (15A NCAC 18C), and the North Carolina State Building Code (Volume II) as they pertain to cross connections with the public water supply.

### Sec. 15-392. Objectives of article

The specific objectives of this cross connection control article for the Town of Clarkton are as follows:

- (1) To protect the public potable water supply of the Town of Clarkton against actual or potential contamination by isolating within the consumer's water system contaminants or pollutants which could, under adverse conditions, backflow through uncontrolled cross connections into the public water system.
- (2) To eliminate or control existing cross connections, actual or potential, between the consumer's potable water system and nonpotable or industrial piping system.
- (3) To provide a continuing inspection program of cross connection control which will systematically and effectively control all actual or potential cross connections which may be installed in the future.

### Ordinance Amendment

Pursuant to an affirmative vote of   3   yeas to   0   nays the Board of Commissioners of the Town of Clarkton at its regular meeting on the month of March 2024 and an affirmative vote of   3   yeas to   0   nays by the Board of Commissioners at its regular meeting on the   5   day of   March  , 2024 if required, the following ordinances are hereby AMENDED:

(Proposed Amendments in Italics, Showing additions)

### Sec. 15-393. Responsibilities

(a) *Health agency*

The state department of environment and natural resources has the responsibility for promulgating and enforcing laws, rules, regulations, and policies to be followed in carrying out an effective cross connection control program. The state department of environment and natural resources also has the primary responsibility of insuring that the water purveyor operates the public potable water system free of actual or potential sanitary hazards, including unprotected cross connections. The state department of environment and natural resources has the further responsibility of insuring that the water purveyor provides an approved water supply at the service connection to the consumer's water system and, further, that he requires the installation, testing, and maintenance of an approved backflow prevention assembly on the service connection when required.

(b) *Water purveyor*

Except as otherwise provided in this article, the water purveyor's the Town of Clarkton responsibility to ensure a safe water supply begins at the source and includes all of the public water distribution system, including the service connection, and ends at the point of delivery to the consumer's water system. In addition, the water purveyor shall exercise reasonable vigilance to insure that the consumer has taken the proper steps to protect the public potable water system. To insure that the proper precautions are taken, the Town of Clarkton is required to determine the degree of hazard or potential hazard to the public potable water system; to determine the degree of protection required; and to ensure proper containment protection through an on-going inspection program. When it is determined that a backflow prevention assembly is required for the protection of the public system, the Town of Clarkton shall require the consumer, at the consumer's expense, to install an approved backflow prevention assembly at each service connection, to test immediately upon installation and thereafter at a frequency as determined by the Town of Clarkton, to properly repair and maintain such assembly or assemblies and to keep adequate records of each test and subsequent maintenance and repair, including materials and/or replacement parts.

(c) *Plumbing inspection*

The plumbing inspection departments have the responsibility to not only review building plans and inspect plumbing as it is installed; but, they have the explicit responsibility of preventing cross connections from being designed and built into the plumbing system within its jurisdiction. Where the review of building plans suggests or detects the potential for cross connections being made an integral part of the plumbing system, the plumbing inspector has the responsibility, under the state building code, for requiring that such cross connections be either eliminated or provided with backflow prevention equipment approved by the state building code. The plumbing inspector's responsibility begins at the point of delivery, downstream of the first installed backflow prevention assembly, and continues throughout the entire length of the consumer's water system. The plan inspector should inquire about the intended use of water at any point where it is suspected that a cross connection might be made or where one is actually called for by the plans. When such is discovered it shall be mandatory that a suitable, approved backflow prevention assembly approved by the state building code be required by the plans and be properly installed. The primary protection assembly for containment purposes only shall have approval from the Town of Clarkton, the state building code, and the state department of environment and natural resources.

(d) *Consumer*

The consumer has the primary responsibility of preventing pollutants and contaminants from entering his potable water system or the public potable water system. The consumer's responsibility starts at the point of delivery from the public potable water system and includes all of his water system. The consumer, at his own expense, shall install, operate, test, and maintain approved backflow prevention assemblies as directed by the Town of Clarkton. The consumer shall maintain accurate records of tests and repairs made to backflow prevention assemblies and shall maintain such records for a minimum period of three years.

The records shall be on forms approved by the Town of Clarkton and shall include the list of materials or replacement parts used. Following any repair, overhaul, repiping or relocation of an assembly, the consumer shall have it tested to insure that it is in good operating condition and will prevent backflow. Tests, maintenance and repairs of backflow prevention assemblies shall be made by a certified backflow prevention assembly tester.

(e) *Certified backflow prevention assembly testers*

When employed by the consumer to test, repair, overhaul, or maintain backflow prevention assemblies, a backflow prevention assembly tester will have the following responsibilities: The tester will be responsible for making competent inspections and for repairing or overhauling backflow prevention assemblies and making reports of such repair to the consumer and responsible authorities on forms approved by the Town of Clarkton. The tester shall include the list of materials or replacement parts used. The tester shall be equipped with and be competent to use all the necessary tools, gauges, manometers and other equipment necessary to properly test, repair, and maintain backflow prevention assemblies. It will be the tester's responsibility to insure that original manufactured parts are used in the repair or replacement of parts in a backflow prevention assembly. It will be the tester's further responsibility not to change the design, material or operational characteristics of an assembly during repair or maintenance without prior approval of the Town of Clarkton. A certified tester shall perform the work and be responsible for the competency and accuracy of all tests and reports. A certified tester shall provide a copy of all test and repair reports to the consumer and to the Town of Clarkton cross connection control department within ten business days of any completed test or repair work. A certified tester shall maintain such records for a minimum period of three years. All certified backflow prevention assembly testers must obtain and employ backflow prevention assembly test equipment which has been evaluated and/or approved by the Town of Clarkton. All test equipment shall be registered with the Town of Clarkton cross connection control department. All test equipment shall be checked for accuracy annually, at a minimum, calibrated, if necessary, and certified to the Town of Clarkton as to such calibration, employing an accuracy/calibration method acceptable to the Town of Clarkton. All certified backflow prevention assembly testers must become re-certified every two years through an approved backflow prevention certification program.

**Sec.15-394. Definitions.**

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Air-gap separation* means a physical separation between the free flowing discharge end of a potable water supply pipeline and an open or nonpressure receiving vessel. An approved air-gap separation shall be at least double the diameter of the supply pipe measured vertically above the overflow rim of the receiving vessel, in no case less than one inch (2.54 cm).

*Approved* means, as used in reference to a water supply, a water supply that has been approved by the state department of environment and natural resources; or, as used in reference to air-gap separation, a pressure vacuum breaker, a double check valve assembly, a double check detector assembly, a reduced pressure principle backflow prevention assembly, a reduced pressure principle detector assembly, or other backflow prevention assemblies or methods means an approval by the Town of Clarkton.

*Backflow* means the undesirable reversal of flow of water or mixtures of water and other liquids, gases, or other substances into the distribution pipes of the consumer or public potable water system from any source or sources.

*Backflow prevention assembly--Approved.* The term "approved backflow prevention assembly" means an assembly used for containment and/or isolation purposes that has been investigated and approved by the Town of Clarkton and has been shown to meet the design and performance standards of the American Society of Sanitary Engineers (ASSE), the American Water Works Association (AWWA), or the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California. The approval of backflow prevention assemblies by the Town of Clarkton is based on a favorable report by the Foundation for Cross-Connection Control and Hydraulic Research of the University of Southern California, recommending such an

approval. To be approved, an assembly must be readily accessible for in-line testing and maintenance. The Town of Clarkton reserves the right to evaluate any backflow prevention assembly though a field evaluation process for approval if necessary for a period of time established by the town.

*Backflow prevention assembly--Unapproved.* The term "unapproved backflow prevention assembly" means an assembly that has been investigated by the Town of Clarkton and has been determined to be unacceptable for installation within the Town of Clarkton water system. Consideration for disapproval and removal from the "approved list" shall be based upon, but not limited to, the following criteria: (i) Due to poor performance standards (i.e., significant failure rate); (ii) lack of or unavailability of repair parts; and/or, (iii) poor service or response from assembly's factory representative.

*Backflow prevention assembly--Type* means an assembly used to prevent backflow into a consumer or public potable water system. The type of assembly used should be based on the degree of hazard either existing or potential. The types are:

- (1) Double check valve assembly (DCVA).
- (2) Double check detector assembly (fire system) (DCDA).
- (3) Pressure vacuum breaker (PVB).
- (4) Atmospheric vacuum breaker (AVB)
- (5) Reduced pressure principle assembly (RP).
- (6) Reduced pressure principle detector assembly (fire system). (RPDA).

*Backflow prevention assembly tester--Certified.* The term "certified backflow prevention assembly tester" means a person who has proven his competency to the satisfaction of the Town of Clarkton. Each person who is certified to make competent tests, or to repair, overhaul, and make reports on backflow prevention assemblies shall be knowledgeable of applicable laws, rules, and regulations, shall be a licensed plumber or have at least two years' experience under and be employed by a state licensed plumber or plumbing contractor, or have equivalent qualifications acceptable to the Town of Clarkton, and must hold a certificate of completion from an approved training program in the testing and repair of backflow prevention assemblies. Backflow assembly testers who hold a certificate of completion from an approved training program shall be required to successfully complete a practical examination administered by the Town of Clarkton prior to conducting test and repair work on backflow prevention assemblies in the Town of Clarkton water system. Backflow assembly testers who hold a certificate of completion from a nonapproved training program shall be required to successfully complete a written and practical examination administered by the Town of Clarkton prior to conducting test and repair work on backflow prevention assemblies in the Town of Clarkton water system.

*Backflow prevention device--Approved.* The term "approved backflow prevention device" means a device used for isolation purposes that has been shown to meet the design and performance standards of the American Society of Sanitary Engineers (ASSE) and the American Water Works Association (AWWA)

*Back-pressure backflow* means any elevation in the consumer water system, by pump, elevation of piping, or steam and/or air pressure, above the supply pressure at the point of delivery which would cause, or tend to cause, a reversal of the normal direction of flow.

*Back-siphonage backflow* means a reversal of the normal direction of flow in the pipeline due to a negative pressure (vacuum) being created in the supply line with the backflow source subject to atmospheric pressure.

*Check valve--Approved.* The term "approved check valve" means a check valve that is drip-tight in the normal direction of flow when the inlet pressure is at least one psi and the outlet pressure is zero. The check valve shall permit no leakage in a direction reverse to the normal flow. The closure element (e.g. clapper, poppet, or other design) shall be internally loaded to promote rapid and positive closure. An approved check valve is only one component of an approved backflow prevention assembly, i.e., pressure vacuum breaker, double check valve assembly, double check detector assembly, reduced pressure principle assembly, or reduced pressure detector assembly.

*Consumer* means any person, firm, or corporation using or receiving water from the Town of Clarkton water system.



*Consumer's potable water system* means that portion of the privately owned potable water system lying between the point of delivery and point of use and/or isolation protection. This system will include all pipes, conduits, tanks, receptacles, fixtures, equipment, and appurtenances used to produce, convey, store, or use potable water.

*Consumer's water system* means any water system commencing at the point of delivery and continuing throughout the consumer's plumbing system, located on the consumer's premises, whether supplied by public potable water or an auxiliary water supply. The system or systems may be either a potable water system or an industrial piping system.

*Containment* means preventing the impairment of the public potable water supply by installing an approved backflow prevention assembly at the service connection.

*Contamination* means an impairment of the quality of the water which creates a potential or actual hazard to the public health through the introduction of hazardous or toxic substances or through the spread of disease by sewage, industrial fluids, or waste.

*Cross connection* means any unprotected actual or potential connection or structural arrangement between a public or a consumer's water system and any other source or system through which it is possible to introduce any contamination or pollution, other than the intended potable water with which the system is supplied. Bypass arrangements, jumper connections, removable sections, swivel or change-over devices, and other temporary or permanent devices through which or because of which "backflow" can or may occur are considered to be cross connections.

*Double check detector assembly* means a specially designed assembly composed of a line-size approved double check valve assembly with a specific bypass water meter and a meter-sized approved double check valve assembly. The meter shall register (in U.S. gallons or cubic feet) accurately for only very low rates of flow and shall show a registration for all rates of flow. This assembly shall only be used to protect against a nonhealth hazard (i.e., pollutant).

*Double check valve assembly* means an assembly composed of two independently acting, approved check valves, including tightly closing shutoff valves attached at each end of the assembly and fitted with properly located test cocks. This assembly shall only be used to protect against a nonhealth hazard (i.e., pollutant).

*Hazard--Degree of.* The term "degree of hazard" is derived from the evaluation of conditions within a system which can be classified as either a "pollutional" (nonhealth) or a "contamination" (health) hazard.

*Hazard--Health.* The term "health hazard" means an actual or potential threat of contamination of a physical, hazardous or toxic nature to the public or consumer's potable water system to such a degree or intensity that there would be a danger to health.

*Hazard--Nonhealth.* The term "nonhealth hazard" means an actual or potential threat to the quality of the public or the consumer's potable water system. A nonhealth hazard is one that, if introduced into the public water supply system, could be a nuisance to water customers, but would not adversely affect human health.

*Hazard--Pollutional.* The term "pollutional hazard" means an actual or potential threat to the quality or the potability of the public or the consumer's potable water system but which would not constitute a health or a system hazard, as defined. The maximum degree or intensity of pollution to which the potable water system could be degraded under this definition would cause a nuisance or be aesthetically objectionable or could cause minor damage to the system or its appurtenances.

*Health agency* means the state department of environment and natural resources.

*Industrial fluids* means any fluid or solution which may be chemically, biologically, or otherwise contaminated or polluted in a form or concentration such as would constitute a health or nonhealth hazard if introduced into a public or consumer potable water system. Such fluids may include, but are not limited to: process waters; chemicals in fluid form; acids and alkalis; oils, gases; etc.

*Industrial piping system--Consumer's.* The term "consumer's industrial piping system" means any system used by the consumer for transmission of or to confine or store any fluid, solid or gaseous substance other than an approved water supply. Such a system would include all pipes, conduits, tanks, receptacles, fixtures, equipment, and appurtenances used to produce, convey, or store substances which are or may be polluted or contaminated

*Isolation* means the act of confining a localized hazard within a consumer's water system by installing approved backflow prevention assemblies. Disclaimer: The Town of Clarkton may make recommendations, upon facility inspection, as to the usages of isolation devices/assemblies, but does not assume or have responsibility whatsoever for such installations.

*Point of delivery* means generally at the property line of the customer, adjacent to the public street where the Town of Clarkton mains are located, or at a point on the customer's property where the meter is located. The customer shall be responsible for all water piping and control devices located on the customer's side of the point of delivery.

*Pollution* means an impairment of the quality of the water to a degree which does not create an actual hazard to the public health but which does adversely and unreasonably affect the aesthetic qualities of such waters for domestic use.

*Potable water* means water from any source which has been investigated by the state department of environment and natural resources and which has been approved for human consumption.

*Public potable water system* means any publicly or privately owned water system operated as a public utility, under a current state department of environment and natural resources permit, to supply water for public consumption or use. This system will include all sources, facilities, and appurtenances between the source and the point of delivery such as valves, pumps, pipes, conduits, tanks, receptacles, fixtures, equipment, and appurtenances used to produce, convey, treat, or store potable water for public consumption or use.

*Reduced pressure principle backflow prevention assembly* means an assembly containing within its structure a minimum of two independently acting, approved check valves, together with a hydraulically operating, mechanically independent, pressure differential relief valve located between the check valves and at the same time below the first check valve. The first check valve reduces the supply pressure a predetermined amount so that during normal flow and at cessation of normal flow, the pressure between the checks is less than the supply pressure. In case of leakage of either check valve, the pressure differential relief valve, by discharge to atmosphere, shall operate to maintain the pressure between the checks less than the supply pressure. The unit shall include tightly closing shutoff valves located at each end of the assembly and each assembly shall be fitted with properly located test cocks. The assembly is designed to protect against a health hazard (i.e., contaminant).

*Reduced pressure principle detector assembly* means a specially designed assembly composed of a line-size approved reduced pressure principle backflow prevention assembly with a specific bypass water meter and a meter-sized approved reduced pressure principle backflow prevention assembly. The meter shall register, in U.S. gallons or cubic feet, accurately for only very low rates of flow and shall show a registration for all rates of flow. This assembly shall be used to protect against a health hazard (i.e., contaminant).

*Service connections* means the terminal end of a service connection from the public potable water system, i.e., where the Town of Clarkton loses jurisdiction and sanitary control over the water at its point of delivery to the consumer's water system.

*Vacuum breaker--Atmospheric type.* The term "atmospheric vacuum breaker," also known as the "nonpressure type vacuum breaker," means a device containing a float-check, a check seat, and an air inlet port. The flow of water into the body causes the float to close the air inlet port. When the flow of water stops, the float falls and forms a check valve against back-siphonage and at the same time opens the air inlet port to allow air to enter and satisfy the vacuum. Shutoff valves downstream of AVBs are not allowed. AVB's must always be installed at a minimum of 6" above the highest outlet. An atmospheric vacuum breaker is designed to protect against health hazards, isolation protection only, under a backsiphonage condition only.

*Vacuum breaker--Pressure type.* The term "pressure vacuum breaker" means an assembly containing an independently operating internally loaded check valve and an independently operating loaded air inlet valve located on the discharge side of the check valve. The assembly is to be equipped with properly located test cocks and tightly closing shutoff valves attached at each end of the assembly. PVB's must always be installed at a minimum of 12" above the highest outlet. This assembly is designed to protect against a health hazard (i.e., contaminant) under a backsiphonage condition only.

*Water purveyor* means the owner or operator of a public potable water system, providing an approved water supply to the public.

*Water supply--Approved.* The term "approved water supply" means any public potable water supply which has been investigated and approved by the permit. In determining what constitutes an approved water supply, the state department of environment and natural resources has reserved the final judgment as to its safety and potability.

*Water supply--Auxiliary.* The term "auxiliary water supply" means any water supply on or available to the premises other than the purveyor's approved public potable water supply. These auxiliary waters may include water from another purveyor's public potable water supply or any natural source such as a well, spring, river, stream, etc., "used water", or industrial fluids. These waters may be polluted, contaminated, or objectionable and constitute an unacceptable water source over which the water purveyor does not have sanitary control.

*Water supply--Unapproved.* The term "unapproved water supply" means a water supply which has not been approved for human consumption by the state department of environment and natural resources.

*Water--Used.* The term "used water" means any water supplied by a water purveyor from a public water system to a consumer's water system after it has passed through the point of delivery and is no longer under the control of the water purveyor.

#### **Sec. 15-395. Right of entry**

- (a) Authorized representatives from the Town of Clarkton shall have the right to enter, upon presentation of proper credentials and identification, any building, structure, or premises during normal business hours, or at anytime during the event of an emergency, to perform any duty imposed by this article. Those duties may include sampling and testing of water, or inspections and observations of all piping systems connected to the public water supply. Where a user has security measures in force which would require proper identification and clearance before entry into their premises, the user shall make necessary arrangements with the security guards so that upon presentation of suitable identification, Town of Clarkton personnel will be permitted to enter, without delay, for the purposes of performing their specific responsibilities. Refusal to allow entry for these purposes may result in discontinuance of water service.
- (b) On request, the consumer shall furnish to the commission any pertinent information regarding the water supply system on such property where cross connections and backflow are deemed possible.

#### **Sec. 15-396. Elimination of cross connections; degree of hazard**

- (a) When cross connections are found to exist, the owner, his agent, occupant, or tenant will be notified in writing to disconnect the cross connection within the time limit established by the Town of Clarkton. Degree of protection required and maximum time allowed for compliance will be based upon the potential degree of hazard to the public water supply system. The maximum time limits are as follows:
  - (1) Cross connections with private wells or other auxiliary water supplies--immediate disconnection.
  - (2) All facilities which pose a health hazard to the potable water system must have a containment assembly in the form of a reduced pressure principle backflow prevention assembly within 60 days.

- (3) All industrial and commercial facilities not identified as a health hazard shall be considered nonhealth hazard facilities. All nonhealth hazard facilities must install, as a minimum containment assembly, a double check valve assembly within 90 days
  - (4) If, in the judgment of the Town of Clarkton, an imminent health hazard exists, water service to the building or premises where a cross connection exists may be terminated unless an air gap is immediately provided, or the cross connection is immediately eliminated.
  - (5) Based upon recommendation from the Town of Clarkton, the consumer is responsible for installing sufficient internal isolation backflow prevention assemblies and/or methods (i.e., air gap, pressure vacuum breakers, reduced pressure principle backflow prevention assembly, double check valve assembly).
  - (6) Water mains served by the Town of Clarkton but not maintained by the Town of Clarkton should be considered cross connections, with degree of hazard to be determined by the Town of Clarkton. Degree of protection shall be based upon the degree of hazard, as determined by the Town of Clarkton.
  - (7) In the event that a Town of Clarkton cross connection control inspector does not have sufficient access to every portion of a private water system (e.g., classified research and development facilities; federal government property) to allow a complete evaluation of the degree of hazard associated with such private water systems, an approved reduced pressure principle assembly shall be required as a minimum of protection.
- (b) No person shall fill special use tanks or tankers containing pesticides, fertilizers, other toxic chemicals or their residues from the public water system except at a location equipped with an air gap or an approved reduced pressure principle backflow prevention assembly properly installed on the public water supply.

**Sec. 15-397. Installation of assemblies.**

- (a) All backflow prevention assemblies shall be installed in accordance with the specifications furnished by The Town of Clarkton and/or the manufacturer's installation instructions and/or in the latest edition of the state building code, whichever is most restrictive. All assemblies installed above ground outside must be protected from freezing with an above ground enclosure that meets the ASSE 1060 standard. If the assembly is installed outside and intended for commercial domestic water use, a heat source must be ready available at the assembly.
- (b) All new construction plans and specifications, when required by the state building code and the state department of environment and natural resources, shall be made available to the Town of Clarkton for review and approval, and to determine the degree of hazard.
- (c) Ownership, testing, and maintenance of the assembly shall be the responsibility of the customer.
- (d) All double check valve assemblies must be installed in accordance with detailed specifications provided by the Town of Clarkton. Double check valve assemblies may be installed in a vertical position provided they have been specifically approved by the manufacture and with prior approval from the Town of Clarkton Cross Connection Control Department provided the flow of water is in an upward direction. All double check valve assemblies 2 1/2" and larger must be installed above ground covered by an above ground enclosure that meets the ASSE 1060 standard if they are installed outside. Inside installations must meet North Carolina Plumbing Code.
- (e) Reduced pressure principle assemblies must be installed in a horizontal position and in a location in which no portion of the assembly can become submerged in any substance under any circumstances. The further most bottom portion of the body must be at a minimum of 12" above grade, no more than 4'. Pit and/or below grade installations are prohibited.



- (f) The installation of a backflow prevention assembly which is not approved must be replaced with an approved backflow prevention assembly.
- (g) The installer is responsible to make sure a backflow prevention assembly is working properly upon installation and is required to furnish the following information to the Town of Clarkton Cross Connection Control Department within 15 days after a reduced pressure principle backflow preventer (RP), double check valve assembly (DCVA), pressure vacuum breaker (PVB), double check detector assembly (DCDA), or reduced pressure principle detector assembly (RPDA) is installed:
  - (1) Service address where assembly is located.
  - (2) Owner and address, if different from service address.
  - (3) Description of assembly's location.
  - (4) Date of installation.
  - (5) Installer, include name, plumbing company represented, plumber's license number, and project permit number.
  - (6) Type of assembly, size of assembly.
  - (7) Manufacturer, model number, serial number.
  - (8) Test results/report.
- (h) When it is not possible to interrupt water service, provisions shall be made for a parallel installation of backflow prevention assemblies. The Town of Clarkton will not accept an unprotected bypass around a backflow preventer when the assembly is in need of testing, repair, or replacement.
- (i) The consumer shall, upon notification, install the appropriate containment assembly not to exceed the following time frame:
  - Health hazard . . . 60 days
  - Nonhealth hazard . . . 90 days
- (j) Following installation, all reduced pressure principle backflow preventers (RP), double check valve assemblies (DCVA), pressure vacuum breakers (PVB), double check detector assemblies (DCDA), or reduced pressure principle detector assemblies (RPDA) are required to be tested by a certified backflow prevention assembly tester within ten days.

#### **Sec. 15-398. Testing and repair of assemblies**

- (a) Testing of backflow prevention assemblies shall be made by a certified backflow prevention assembly tester or may be contracted out to the Town of Clarkton cross connection control department at the customer's expense. Such tests are to be conducted upon installation and annually thereafter or at a frequency established by the Town of Clarkton regulations. A record of all testing and repairs is to be retained by the customer. Copies of the records must be provided to the Town of Clarkton cross connection control department within ten business days after the completion of any testing and/or repair work.
- (b) Any time that repairs to backflow prevention assemblies are deemed necessary, whether through annual or required testing or routine inspection by the owner or by the Town of Clarkton, these repairs must be completed within a specified time in accordance with the degree of hazard. In no case shall this time period exceed:
  - (1) Health hazard facilities . . . 14 days
  - (2) Non-health hazard facilities . . . 21 days
- (c) All backflow prevention assemblies with test cocks are required to be tested annually or at frequency established by the Town of Clarkton regulations. Testing requires a water shutdown usually lasting five to 20 minutes. For facilities that require an uninterrupted supply of water, and when it is not possible to provide water service from two separate meters, provisions shall be made for a parallel installation of backflow prevention assemblies.

- (d) All certified backflow prevention assembly testers must obtain and employ backflow prevention assembly test equipment which has been evaluated and/or approved by the Town of Clarkton. All test equipment shall be registered with the Town of Clarkton cross connection control department. All test equipment shall be checked for accuracy annually, at a minimum, calibrated, if necessary, and certified to the Town of Clarkton as to such accuracy/calibration, employing a calibration method acceptable to the Town of Clarkton. Ref. Sec. 15-393 (e)
- (e) It shall be unlawful for any customer or certified tester to submit any record to the Town of Clarkton which is false or incomplete in any material respect. It shall be unlawful for any customer or certified tester to fail to submit to the Town of Clarkton any record which is required by this article. Such violations may result in any of the enforcement actions outlined in section. 15-402. Enforcement

#### **Sec. 15-399. Facilities requiring protection**

- (a) Approved backflow prevention assemblies shall be installed on the service line to any premises that the Town of Clarkton has identified as having a potential for backflow.
- (b) The following types of facilities or services have been identified by the Town of Clarkton as having a potential for backflow of nonpotable water into the public water supply system. Therefore, an approved backflow prevention assembly will be required on all such services according to the degree of hazard present. Other types of facilities or services not listed below may also be required to install approved backflow prevention assemblies if determined necessary by the Town of Clarkton. As a minimum requirement, all commercial services will be required to install a double check valve assembly, unless otherwise listed in this subsection.

DCVA = Double check valve assembly

RP = Reduced pressure principle assembly

DCDA = Double check detector assembly

RPDA = Reduced pressure detector assembly

AG = Air gap

PVB = Pressure vacuum breaker

- (1) Aircraft and missile plants: RP
- (2) Automotive services stations, dealerships, etc.
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (3) Automotive plants: RP
- (4) Auxiliary water systems:
  - a. Approved public/private water supply: DCVA
  - b. Unapproved public/private water supply: AG
  - c. Used water and industrial fluids: RP
- (5) Bakeries:
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (6) Beauty shops/barber shops:
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (7) Beverage bottling plants: RP
- (8) Breweries: RP

- (9) Buildings--Hotels, apartment houses, public and private buildings, or other structures having unprotected cross connections.
  - a. (Under five stories) no health hazard: DCVA
  - b. (Under five stories) health hazard: RP
  - c. (Over five stories) all: RP
- (10) Canneries, packing houses, and rendering plants: RP
- (11) Chemical plants--Manufacturing, processing, compounding or treatment: RP
- (12) Chemically contaminated water systems: RP
- (13) Commercial car-wash facilities: RP
- (14) Commercial greenhouses: RP
- (15) Commercial sales establishments (department stores, malls, etc.)
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (16) Concrete/asphalt plants: RP
- (17) Dairies and cold storage plants: RP
- (18) Dye works: RP
- (19) Film laboratories: RP
- (20) Fire systems:
  - a. Systems three-fourths inch to two inches:
    - 1. No health hazard: DCVA
    - 2. Health hazard: (booster pumps, foam, antifreeze solution, etc.): RP
  - b. Systems 2 1/2 inches to ten inches or larger:
    - 1. No health hazard: DCDA
    - 2. Health hazard (booster pumps, foam, antifreeze solution, etc.): RPDA
- (21) Hospitals, medical buildings, sanitariums, morgues, mortuaries, autopsy facilities, nursing and convalescent homes, medical clinics, and veterinary hospitals: RP
- (22) Industrial facilities:
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (23) Laundries:
  - a. No health hazard: DCVA
  - b. Health hazard: (i.e., dry cleaners): RP
- (24) Lawn irrigation systems (split taps): RP
- (25) Metal manufacturing, cleaning, processing, and fabricating plants: RP
- (26) Mobile home parks:
  - a. No health hazard: DCVA
  - b. Health hazard: RP

- (27) Oil and gas production, storage or transmission properties: RP
- (28) Paper and paper products plants: RP
- (29) Pest control (exterminating and fumigating): RP
- (30) Plating plants: RP
- (31) Power plants: RP
- (32) Radioactive materials or substances plants or facilities handling: RP
- (33) Restaurants:
  - a. No health hazard: DCVA
  - b. Health hazard: RP
- (34) Restricted, classified, or other closed facilities: RP
- (35) Rubber plants (natural or synthetic): RP
- (36) Sand and gravel plants: RP
- (37) Schools and colleges: RP
- (38) Sewage and storm drain facilities: RP
- (39) Swimming pools: RP
- (40) Waterfront facilities and industries: RP

(c) All assemblies and installations shall be subject to inspection and approval by the Town of Clarkton.

**Sec. 15-400. Connections with unapproved sources of supply**

- (a) No person shall connect or cause to be connected any supply of water not approved by the state department of environment and natural resources to the water system supplied by the Town of Clarkton. Any such connections allowed by the Town of Clarkton must be in conformance with the backflow prevention requirements of this article.
- (b) In the event of contamination or pollution of a public or consumer potable water system, the consumer shall notify the Town of Clarkton immediately in order that appropriate measures may be taken to overcome and eliminate the contamination or pollution.

**Sec. 15-401. Fire protection systems**

- (a) All connections for fire protection systems connected with the public water system, two inches and smaller, shall be protected with an approved double check valve assembly as a minimum requirement. All fire systems using toxic additives or booster pumps shall be protected by an approved reduced pressure principle assembly at the main service connection.
- (b) All connections for fire protection systems connected with the public water system greater than two inches shall be protected with an approved double check detector assembly as a minimum requirement. All fire protection systems using toxic or hazardous additives or booster pumps shall be protected by an approved reduced pressure principle detector assembly at the main service connection.
- (c) All existing backflow prevention assemblies 2 1/2 inches and larger installed on fire protection systems that were initially approved by the Town of Clarkton shall be allowed to remain on the premises, as long



as they are being properly maintained, tested and repaired as required by this article. If, however, the existing assembly must be replaced once it can no longer be repaired, or in the event of proven water theft through an unmetered source, the consumer shall be required to install an approved double check detector assembly or reduced pressure principle detector assembly as required by Sec. 15-399. Facilities requiring protection

#### **Sec. 15-402. Enforcement.**

- (a) The owner, manager, supervisor, or person in charge of any installation found not to be in compliance with the provisions of this article shall be notified in writing with regard to the corrective action to be taken. The time for compliance shall be in accordance with sections Sec. 15-402 (g) (1-4)
- (b) The owner, manager, supervisor, or person in charge of any installation which remains in noncompliance after the time prescribed in the initial notification, as outlined in section Sec. 15-402 (g) (1-4), shall be considered in violation of this article, and may be issued a civil citation by the Town of Clarkton. The citation shall specify the nature of the violation and the provision of this article violated, and further notify the offender that the civil penalty for such violation is as set forth in subsection (c) of this section and is to be paid to the Town of Clarkton within 30 days. If the penalty prescribed in this subsection is not paid within the time allowed, the Town of Clarkton may initiate a civil action in the nature of a debt and recover the sums set forth in subsection (c) of this section plus the cost of the action.
- (c) Any offender who shall continue any violation beyond the time limit provided for in the aforementioned notification shall be subject to a civil penalty of up to \$1,000.00 per violation. Each day in which a violation of any provision of this article shall occur or continue shall constitute a separate and distinct offense.
- (d) If, in the judgment of the Town of Clarkton, any owner, manager, supervisor, or person in charge of any installation found to be in noncompliance with the provisions of this article neglects his responsibility to correct any violation, such neglect may result in discontinuance of water service until compliance is achieved.
- (e) Failure of a customer or certified tester to submit any record required by this article, or the submission of falsified reports/records may result in a civil penalty of up to \$1,000.00 per violation. If a certified backflow prevention assembly tester submits falsified records to the Town of Clarkton, the Town of Clarkton shall take the necessary actions to revoke certification to test backflow prevention assemblies within the potable water system for a time period not to exceed one year. The tester will then be required to complete an approved certification course to acquire a new certification. Falsification made to records/reports after becoming recertified shall result in the permanent revocation of backflow testing certification, in addition to a civil penalty as provided for in this subsection.
- (f) Enforcement of this program shall be administered by the Public Works Director of the Town of Clarkton or his authorized representative.
- (g) Requests for extension of time shall be made in writing to the Public Works Director of the Town of Clarkton or his authorized representative. All other appeals shall be made in accordance with the following procedures:
  - (1) Adjudicatory hearings. A customer assessed a civil penalty under this section shall have the right to an adjudicatory hearing before a hearing officer designated by the Public Works Director of the Town of Clarkton upon making written demand, identifying the specific issues to be contended, to the Public Works Director of the Town of Clarkton within 30 days following notice of final decision to assess a civil penalty. Unless such demand is made within the time specified in this subsection, the decision on the civil penalty assessment shall be final and binding.
  - (2) Appeal hearings. Any decision of the Town of Clarkton hearing officer made as a result of an adjudicatory hearing held under subsection (g)(1) of this section may be appealed by any party to the Town of Clarkton board of **Commissioners** upon filing a written demand within ten days of receipt of notice of the

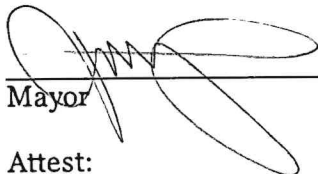
decision. Hearings held under this section shall be conducted in accordance with the Town of Clarkton hearing procedures. Failure to make written demand within the time specified in this subsection shall bar further appeal. The Town of Clarkton shall make a decision on the appeal within 90 days of the date the appeal was filed and shall transmit a written copy of its decision by registered or certified mail.

- (3) Official record. When a final decision is issued under Sec. 15-402 (g)(2) of this section, the Town of Clarkton shall prepare an official record of the case that includes:
- All notices, motions, and other like pleadings;
  - A copy of all documentary evidence introduced;
  - A certified transcript of all testimony taken, if testimony is transcribed. If testimony is taken and not transcribed, then a narrative summary of any testimony taken;
  - A copy of the final decision of the Town of Clarkton.
- (4) Judicial review. Any customer against whom a final decision of the Town of Clarkton is entered, pursuant to the hearing procedure under subsection Sec. 15-402 (g)(2) of this section, may appeal the order or decision by filing a written petition for judicial review within 30 days after receipt of notice by certified mail of the order or decision to the general court of justice of the county or of the county where the order or decision is effective, along with a copy to the Town of Clarkton. Within 30 days after receipt of the copy of the petition of judicial review, the Town of Clarkton shall transmit to the reviewing court the original or a certified copy of the official record, as outlined in subsection (g)(3) of this section.


#### **Sec. 15-403. Severability**

If any section, subsection, sentence, or clause of this article is adjudged to be unconstitutional or otherwise invalid, such adjudication shall not affect the validity of the remaining portion of this article. It is hereby declared that this article would have been passed, and each section, sentence, or clause thereof, irrespective of the fact that any one or more sections, subsections, sentences, or clauses might be adjudged to be unconstitutional, for any other reason invalid.

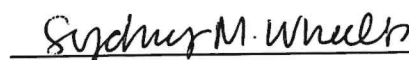
Adopted this the month of March 2024

  
\_\_\_\_\_  
Mayor

Attest:

  
\_\_\_\_\_  
Town Clerk

Approved as to form:

  
\_\_\_\_\_  
Town Attorney