

City of Conway

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**ORDINANCE NO. 0-06-92**

**AN ORDINANCE REVISING A CROSS CONNECTION CONTROL PROGRAM FOR THE CITY OF CONWAY, ARKANSAS; AND FOR OTHER PURPOSES.**

**WHEREAS,** Ordinance 0-99-75 established the Conway Cross Connection Program; and

**WHEREAS,** new rules are required by the Division of Health,

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CONWAY, ARKANSAS:**

**SECTION 1. Intent.**

In compliance with the State of Arkansas Department of Health and Human Services "Rules and Regulations Pertaining to Public Water Systems", Section VII.E, the City of Conway finds it necessary for the health, safety and welfare of the people served by the City's Water System, operated and maintained by Conway Corporation, to adopt cross-connection control standards which establish the requirements for the design, construction and maintenance of connections to the City's Water System. These standards are supplemental to and do not supersede or modify the "Arkansas State Plumbing Code" (ASPC) and its latest revisions under which the City and Conway Corporation operate. This Ordinance pertains to commercial and industrial establishments only. Single-family, residential dwelling units, unless involved in commercial operations, are exempt from the requirements of this Ordinance except where they fall under the purview of the "Arkansas State Plumbing Code" (ASPC).

**SECTION 2. PURPOSE.**

The purposes of this Ordinance are:

- A. To provide for the protection of the City's Water System;

- B. To isolate the service connection of any actual or potential pollution or contamination within the customer's premises; and
- C. To provide a continuous, systematic and effective program of cross-connection control.

### **SECTION 3. DEFINITIONS.**

- A. Air Gap (AG) means a physical separation between two piping systems.
- B. ASPC shall mean the Arkansas State Plumbing Code.
- C. AWWA shall mean the American Water Works Association.
- D. Backflow shall mean a hydraulic condition, caused by a difference in pressures, in which non-potable water or other fluids flow into a potable water system.
- E. Backflow Prevention Assembly (BFPA) shall mean a testable assembly installed in a water service line to prevent backflow into the potable water system.
- F. City shall mean the City of Conway.
- G. Commercial Establishment is any building intended for conducting any form of business (profit or non-profit), any multifamily building, any construction site or any facility that Conway Corporation bills in its electric rate schedule as institutional or municipal.
- H. Conway Corporation is the municipal utility authorized by the City of Conway to operate the Electric, Water, Wastewater and CATV Systems serving the City of Conway.
- I. Cross-Connection Prevention Program (Program) means the program developed by Conway Corporation to prevent cross-connections to the City's Water System from non-potable water sources.

- J. Double-Check Valve Assembly (DCVA) means a complete assembly meeting AWWA Standard C510 and the requirements of the ASPC consisting of two internally loaded, independently operating check valves between two tightly closing resilient-seated shutoff valves, with four (4) properly placed resilient seated test cocks.
- K. Detector Double-Check Valve Assembly (DDCVA) means a Double-Check Valve Assembly with a meter in parallel to detect system leaks or unauthorized use.
- L. Reduced-Pressure Zone Assembly (RPZA) means a complete assembly meeting AWWA Standard C511 and the requirements of the ASPC consisting of a hydraulically operating, mechanically independent differential relief valve located between two independently operating, internally loaded check valves that are located between two tightly closing resilient seated shutoff valves with four (4) properly placed resilient-seated test cocks.
- M. Water System means the City of Conway's water system serving the City of Conway, including the Water Treatment Plant (Plant) and the Water Distribution System.

#### **SECTION 4. OPERATING CRITERIA.**

Conway Corporation's "Cross-Connection Prevention Program" (Program) is hereby incorporated into this Ordinance by reference. It is the primary responsibility of Conway Corporation to evaluate the hazards inherent in supplying a customer's water system; i.e., determine whether solid, liquid, or gaseous pollutants or contaminants are, or may be, handled on the customer's premise in such a manner as to possibly contaminate the City's Water System. When a hazard or potential hazard to the City's Water System

is found on the customer's premise, the customer shall be required to install an approved backflow prevention assembly, or an air gap, at each water service connection to the City's Water System on the premise in accordance with this Ordinance's requirements. The type of backflow prevention assembly shall depend on the degree of hazard involved. The degree of hazard shall be as described in AWWA M-14 manual or as described below.

- A. In the case of any premise where there is an auxiliary water supply, connected to the water service line, the City's Water System shall be protected from the possibility of backflow by a reduced pressure zone assembly (RPZA) in the water service line prior to the first outlet.
- B. In the case of any premise where substances are handled that are objectionable, but not hazardous to human health, and the likelihood exists of it being introduced into the City's Water System by virtue of a backflow occurrence, the Water System shall be protected by an air gap or an approved DCVA in the water service line.
- C. In the case of any premise where there is any material, hazardous to human health, which is handled in such a fashion as to create an actual or potential threat to the Water System by virtue of a backflow occurrence, the Water System shall be protected by an air gap or an approved RPZA in the water service line prior to the first outlet.
- D. In case of any premise where there are unprotected cross-connections, either actual or potential, the City's Water System shall be protected by an air gap or an approved RPZA in the water service line prior to the first outlet.

E. In the case of any premise where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete cross-connection survey, the Water System shall be protected by the installation of an air gap or an approved RPZA in the water service line prior to the first outlet.

#### **SECTION 5. FACILITIES REQUIRING BACKFLOW PROTECTION.**

A. The following is a partial list of facilities, which ordinarily will require an air gap or a RPZA in their water service line in accordance with the ASPC and the Department of Health and Human Services, Engineering Division. Requirements are based upon the degree of hazard to the Water System.

- 1) Automobile and truck car washes.
- 2) Auxiliary water systems.
- 3) Exterminators and veterinary clinics.
- 4) Facilities with boilers, condenser water or chilled water systems.
- 5) Fire sprinkler systems containing chemical additives.
- 6) Hospitals, medical clinics, dental clinics, health clinics, sanitariums, morgues, mortuaries, autopsy facilities, nursing and convalescent homes.
- 7) Irrigation systems and lawn sprinkler systems.
- 8) Laboratories (industrial, commercial, photography, medical and school).
- 9) Commercial laundries.
- 10) Radiator and Battery shops.
- 11) Restricted, classified or other facilities closed to inspection.
- 12) Sand and gravel operations and concrete plants.

- 13) Wastewater treatment plants, pump stations and storm water pumping facilities.
- 14) Commercial swimming pools.
- 15) Farms or other facilities using pesticides and herbicides.
- 16) Livestock sale barns or slaughter houses.
- 17) Beauty parlors and barbershops.
- 18) Hotels and motels.
- 19) Restaurants, cafeterias, fast food marts and other food handling facilities.
- 20) Any buildings with exterior or interior hose-bib connections.
- 21) Other facilities with suspected having high hazards.

B. The following is a partial list of facilities which ordinarily will require a minimum of an air gap or a DCVA in accordance with the ASPC and Department of Health and Human Services, Engineering Division:

- 1) Multi-story buildings or any buildings with water booster pumps.
- 2) Fire sprinkler systems without chemicals.

#### **SECTION 6. APPROVAL OF BACKFLOW PREVENTION DEVICES.**

Any backflow prevention assembly required herein shall be an approved type which is in compliance with the requirements of the "Arkansas State Plumbing Code".

#### **SECTION 7. NON-COMPLIANCE WITH THE PROGRAM.**

A. In emergency situations when the City's Water System is being contaminated or is in immediate danger of contamination, the water service, from the Water System, shall be discontinued to the facility from which there is danger of contamination.

- B. No water service shall be connected to the Water System from a facility unless the Water System is protected as required by this Ordinance.
- C. Delivery of water to the premises of any customer may be discontinued by Conway Corporation if any protective device required by this article has not been installed, or is defective, or has been removed or bypassed. A discontinued water service shall not be resumed until conditions at the customer's premise have been abated or corrected to the satisfaction of Conway Corporation.
- D. Upon discovery of a violation of this Ordinance, written notice shall be given to the customer. If violations are not corrected by the date and time as stated in said notice, the water service to the customer will be discontinued and damages may be assessed or other action taken against the customer.
- E. For the purpose of making any inspections or discharging the duties imposed by this article, Conway Corporation, the State of Arkansas Department of Health and Human Services, and/or the plumbing inspector shall have the right to enter upon the premises of any customer or property owner. Each customer or property owner, as a condition of the continued delivery to his/her premises of water from the City's Water System, shall be considered as having stated his consent to the entry upon his premise of Conway Corporation, the State of Arkansas Department of Health and Human Services, and/or the plumbing inspector for the purpose stated herein.

**SECTION 8. OWNERSHIP & INSTALLATION OF BACKFLOW PREVENTER.**

- A. Backflow prevention assemblies are owned by and are the responsibility of the customer.

- B. Customers of the Water System requiring backflow prevention assemblies shall pay all costs associated with installation and testing of the appropriate size and type of backflow prevention assembly. For newly constructed facilities, backflow prevention assemblies shall be installed prior to the final plumbing inspection so that the device can be included as part of the final inspection. Backflow prevention assemblies shall be installed in accordance with the requirements of the "Arkansas State Plumbing Code" and Conway Corporation's "Cross-Connection Control Program".

#### **SECTION 9. TESTING AND MAINTENANCE.**

- A. The customer shall be responsible for the testing of his/her backflow prevention assemblies by a certified Assembly Test Technician within ten (10) days of their installation and annually thereafter.
- B. The customer shall furnish Conway Corporation with a certificate of satisfactory testing within ten (10) days of each test.
- C. If Conway Corporation or the plumbing inspector deems the hazard to be great enough, testing may be required at more frequent intervals.
- D. The customer shall be responsible for costs of testing and repairing his/her backflow prevention assemblies. All repairs shall be done by a certified Assembly Repair Technician.
- E. Records of inspections, testing and repairs to backflow prevention assemblies shall be kept by Conway Corporation and made available to the State of Arkansas Department of Health and Human Services upon request.

#### **SECTION 10. NEW AND EXISTING FACILITIES.**



- A. All new construction within the City of Conway shall be effected upon the passage of this Ordinance.
- B. All existing facilities within the City of Conway shall be in compliance with this Ordinance upon written notification by Conway Corporation with a time schedule for such compliance.

**SECTION 11. REPEALER**

Ordinance O-99-75 and all other ordinances or parts or ordinances in conflict with this Ordinance are hereby repealed on the effective date of this Ordinance.

**PASSED** on the 25<sup>th</sup> day of July, 2006

**Approved:**

  
**Mayor Tab Townsell**

**Attest:**

  
**Michael O. Garrett**  
**City Clerk/Treasurer**