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City of Conway

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ORDINANCE NO. 0-99-75

**AN ORDINANCE ESTABLISHING A
CROSS-CONNECTION CONTROL PROGRAM
FOR THE CITY OF CONWAY, ARKANSAS;
DECLARING AN EMERGENCY;
AND FOR OTHER PURPOSES**

WHEREAS, the Arkansas Department of Health Regulations require public water systems to implement a cross connection control program; and,

WHEREAS, the cross connection control program is designed to protect the public water system from contamination.

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

SECTION 1. INTENT

In compliance with the Arkansas Department of Health "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 City's Water System, operated and maintained by the Conway Corporation, to adopt cross-connection control standards which establish requirements for the design, construction and maintenance of connections to the City's Water System. The standards of this ordinance 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.

- 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;

- C. To provide a continuous, systematic and effective program of cross-connection control; and
- D. To authorize Conway Corporation to develop rules and guidelines for the implementation of this policy.

SECTION 3. DEFINITIONS.

The following terms and phrases, as used in this ordinance, shall have the meanings designated:

- A. Air Gap (AG)-A physical separation between two piping systems.
- B. ASPC- The Arkansas State Plumbing Code.
- C. AWWA- The American Water Works Association.
- D. Backflow- 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)- A testable assembly installed in a water service line to prevent backflow into the potable water system.
- F. City- The City of Conway.
- G. Conway Corporation-The municipal utility authorized by the City of Conway to operate the Water and Wastewater Systems serving the City of Conway.
- H. Cross-Connection Prevention Program (Program)- The program developed by the Conway Corporation to prevent cross-connections to the City's Water System from Non-potable water sources.
- I. Double-Check Valve Assembly (DCVA)- A complete assembly meeting AWWA Standard C-510 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.
- J. Detector Double-Check Valve Assembly (DDCVA)- A Double-Check Valve Assembly with a meter in parallel to detect system leaks or unauthorized use.
- K. Reduced-Pressure Zone Assembly (RPZA)- A complete assembly meeting AWWA Standard C-511 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.

- L. Water System- 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.

It shall be the responsibility of the 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 the requirements of this Ordinance. Conway Corporation shall develop and maintain on file a cross connection prevention program guideline manual.

The type of backflow prevention assembly shall depend on the degree of hazard involved. The degree of hazard shall be as described in the Program developed by the Conway Corporation and based on American Waterworks Association M-14 Manual.

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. 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. Other facilities suspected of 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:
1. Multi-story buildings with water booster pumps.
 2. Beauty parlors and barber shops.
 3. Hotels and motels
 4. Restaurants, cafeterias, fast-food marts and other food handling facilities.
 5. Fire sprinkler systems without chemicals.
 6. Other facilities suspected of having medium hazards.

SECTION 6. APPROVAL OF BACKFLOW PREVENTION DEVICES.

Any backflow prevention assembly required shall be an approved type, as described in the Program, which complies 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, 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 the Conway Corporation if any protective device required by this Ordinance has not been installed, 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 the 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 the notice, 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 Ordinance, the Conway Corporation 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 the Conway Corporation for the purposes stated herein.

SECTION 8. OWNERSHIP & INSTALLATION OF BACKFLOW PREVENTER.

- A. Backflow prevention assemblies installed downstream of the water meter 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 the Conway Corporation's "Cross-Connection Control Program".

SECTION 9. TESTING AND MAINTENANCE.

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

SECTION 10. NEW AND EXISTING FACILITIES.

- A. All new construction within the City of Conway are required to be in compliance upon the passage of this Ordinance.
- B. Existing facilities within the City of Conway shall comply with this Ordinance upon notification by Conway Corporation in a timetable to be developed in the rules and guidelines of the cross connection prevention program.

SECTION 11. EFFECTIVE DATE OF ORDINANCE.

This Ordinance shall have the full force and effect from and after its date of passage. Any ordinance or parts thereof in conflict with this Ordinance is hereby repealed.

PASSED July 27, 1999.

APPROVED:

John J. Jannell
MAYOR

ATTEST:

Michael O. Bennett
CITY CLERK