

CROSS CONNECTION CONTROL ORDINANCE

PURPOSE: The purpose of this ordinance is to provide a basis for implementing the State Drinking Water Regulations enacted to ensure the safe drinking within the water system for 62nd Court Mutual Water Company. ^{water}

INTERPRETATION: Any interpretation of this document regarding scope, intent, degree of hazard or type of protection required, will be subject to the current accepted guidelines of the State, at the time of the interpretation, and the regulations established herein.

DEFINITION: As used in this document, unless the context indicates otherwise, the following shall apply:

Air Gap Separation- The physical vertical separation between the free flowing discharge end of a potable water supply pipe line and the open or non-pressure receiving vessel. * *At least twice the inside diameter of the supply line, never less than one inch.*

Approved Backflow Prevention Assembly- An assembly which has been approved by the State for preventing backflow.

Atmospheric Vacuum Breaker- (also known as an anti-syphon valve) A device consisting of single check valve in the supply line that opens to the atmosphere when the pressure in the line drops to atmospheric.

Auxiliary Water Supply- Any supply of water used to augment the supply obtained through the Purveyor's water system which serves the premises in question.

Backflow- The flow of water or other fluids in the direction opposite to the normal flow.

Backflow Prevention Assembly Tester- An individual who is Certified by the State, and approved by the State, to test Backflow Prevention Assemblies.

Check Valve- A valve that permits flow in only one direction.

Contaminant- Any physical, chemical, biological, or radiological substance or matter in water which may render the water non-potable, according to State regulations.

Cross Connection- Any link or channel between piping which carries potable drinking water and the piping or fixtures which carry non-potable water or other substances.

Cross Connection Inspector- An individual Certified by the State and approved by the State, to inspect for cross connections.

Customer System- All plumbing, piping, and appurtenances on the customer's side of the point of metering or connection.

Double Check Valve Assembly- An assembly of two independently acting check valves with a shut off valve on each side of the two check valves. The assembly also has test ports for checking the water tightness of each check valve. The assembly must be an approved Backflow Prevention Assembly.

Double Detector Check Valve Assembly- Same as a Double Check Valve Assembly with the addition of a water meter and an additional Double Check Valve Assembly bypassing the main line assembly for the purpose of measuring low or proportional flow. The entire assembly must be an approved Backflow Prevention Assembly.

Facility Survey- An on-site review of the water source, facilities, equipment, operation, and maintenance for the purpose of evaluating the hazards to the drinking water supply.

Pressure Vacuum Breaker Assembly- A mechanical assembly consisting of one spring loaded check valve in the supply line and a spring loaded air inlet on the downstream side of the check valve which will open to atmosphere when the pressure in the assembly drops below one pound per square inch. The complete assembly consists of two shut off valves and two test ports for checking water tightness of the check valve. The Assembly must be an approved Backflow Prevention Assembly.

Reduced Pressure Backflow Prevention Assembly- (RP) An assembly for preventing backflow incorporating two check valves, a differential relief valve located between the two check valves, two shut-off valves, one on each end of the assembly, test ports for checking water tightness of the check valves and the operation of the relief valve. The Assembly must be an approved Backflow Prevention Assembly.

Reduced Pressure Detector Assembly- (RPD) Same as RP Assembly with the addition of a water meter and an additional RP Assembly bypassing the main line Assembly for the purpose of measuring low or proportional flow. The complete Assembly must be an approved Backflow Prevention Assembly.

Safe Drinking Water- (~~Po~~table Water) Water which has sufficiently low concentration of microbiological, inorganic chemical, or organic chemical, radiological or physical substances so that individuals drinking such water at normal levels of consumption will not be exposed to disease organisms or other substances which may produce harmful physical effects.

Secondary Contaminant- Contaminants which at levels generally found in drinking water do not present unreasonable risk to health, but do adversely affect taste, odor or color.

Service Connection- The point of delivery of water at or near the property line, generally at the water meter.

CUSTOMER SYSTEM OPEN FOR INSPECTION: The customer system shall be open for "Facility Survey" at all reasonable times to the Purveyor to determine whether cross connections or other structural or sanitary hazards including violations of these regulations exist. When such a condition becomes known, the Purveyor's board of directors shall cause the service to the premises to be immediately discontinued or denied by a physical break in the service until the customer has corrected the condition in conformance with these regulations.

BACKFLOW PREVENTION REQUIREMENTS: Backflow prevention assemblies shall be installed on each individual branch of a service line of a customer's system at or near the property line or immediately inside the building being served, wherever any of the following conditions exist:

- 1) There is an auxiliary water supply which is, or could be, connected to the potable water piping.
- 2) Where there is piping for conveying liquids other than potable water, and where that piping is installed and operated in a ~~manor~~ ^{manner} which could cause a cross connection.
- 3) There are cross connections or intricate plumbing which make it impractical to ascertain whether or not a cross connection exists.

- 4) In the case where there has been a history of repeating the same or similar cross connection or a backflow, even though these have been removed or disconnected.
- 5) Where there is a building over two stories in height or any plumbing system that is greater than or equal to thirty feet above the water main from which it is served.
- 6) Where fire hydrants or fire systems are connected to the potable domestic water service within the property being served.
- 7) Where the water meter serving the property exceeds one inch in diameter.
- 8) Where any fixture is subject to being submerged.
- 9) Where the customer will not allow an inspection. ✓

THE TYPE OF BACKFLOW PROTECTION REQUIRED: The type of protection required shall be commensurate with the degree of hazard which exists as follows:

- 1) An approved Double Check Valve Assembly shall be installed only when ~~an~~ approved Pressure Vacuum Breaker or Atmospheric Vacuum Breaker will not suffice.
- 2) An approved Pressure Vacuum Breaker or an Atmospheric Vacuum Breaker shall be installed where the substance which could backflow is objectionable but does not pose a risk to health and where there is no possibility of back pressure in the downstream piping.

RP or air gap required for high hazard.

Needs to match with installation requirements → (Back pressure is one of many - may want to just refer to Health Div. installation requirements)

APPROVAL OF ASSEMBLIES: All Backflow Prevention Assemblies required under this ordinance shall be of a type and model approved by the State and this Purveyor.

OWNER'S DUTY FOR INSPECTION: It shall be the duty of the assembly owner of any premise where backflow assembles are installed to have any assembly that requires testing to be tested and certified as working immediately upon installation of the assembly, and at least once a year, or more often in those instances where successive inspection indicate repeated failure. The frequency of these tests or the replacement of the

assembly because of repeated failure is at the discretion of the Purveyor. The tests, repairs, and or replacement of any Backflow Prevention Assembly shall be at the expense of the assembly owner and tests preformed by a Backflow Prevention Assembly Tester who is currently Certified by the State and approved by the Purveyor. Test, repair and or replacement shall be preformed within thirty days of the test due date. The assembly owner is required to contact a tester who can perform the test in the necessary time period. Records of such tests, repairs, and or replacement shall be submitted to the Purveyor within ten (10) days of such tests, repairs or replacement. Annual tests required by the Purveyor to be completed in the month of September.

PREVIOUSLY INSTALLED ASSEMBLIES- Backflow Prevention Assemblies which were approved at the time they were installed but are not on the current list of approved assemblies, shall be permitted to remain in service provided they are properly maintained, are commensurate with the degree of hazard, are tested at least annually, and perform satisfactorily. When assemblies of this type are moved, or require more than minimum maintenance, they shall be replaced by assemblies which are on the list of approved assemblies by the State and approved by the Purveyor.

ENFORCEMENT: The Purveyors board of directors shall cause the water service to the premises to be immediately discontinued or denied by a physical break in the service until the customer has corrected the condition in conformance with this ordinance in any of the following situations:

- 1) When it becomes known that a condition such as a cross connection, plumbing, structural or sanitary hazard, or other violation of this ordinance is present.
- 2) In those cases of extreme emergency, and where an immediate threat to life or public health is found to exist.
- 3) When in other cases and after a reasonable length of time has been allowed as determined solely by the Purveyor, the tests, repairs, and or replacement of assemblies or any other requirement within this ordinance is not performed in accordance with this ordinance.
- 4) All costs to correct the condition to be at the expense of the customer.

COMMON CROSS CONNECTION INFORMATION: The purveyor is attaching literature as pertaining to common cross connections.

SEVERABILITY: The provisions of this ordinance or severable. If any portion of this ordinance is held by a court of competent jurisdiction to be invalid or unenforceable for any reason, such determination shall not affect the validity of the remainder of the ordinance or its application to any other ordinance.