

CHAPTER 11.1

PLUMBING CODE

DIVISION 1 - PLUMBING INSPECTOR

SEC. 11.1.1-1 RESERVED.

SEC. 11.1.1-2 POSITION OF PLUMBING INSPECTOR

- A. Establishment - There has heretofore been created and is hereby continued the Town of Normal employment position of Plumbing Inspector (occasionally referred to in this Chapter as "Inspector").
- B. Supervision - The Plumbing Inspector shall be hired by the City Manager, shall be under the supervision of the Building Commissioner and shall be subject to the provisions of the Town's Personnel Code.
- C. Assistants - The Plumbing Inspector may be assisted by such other employees or personnel as may be authorized by the Town Council and assigned by the Building Commissioner or City Manager.
- D. Office - The Plumbing Inspector has heretofore established and shall maintain an office at the Normal Municipal Building.

SEC. 11.1.1-3 QUALIFICATIONS - No person shall be hired as a Plumbing Inspector who is not knowledgeable about plumbing, house drainage and plumbing ventilation, and well versed in the rules, regulations and requirements of the Illinois State Plumbing Code.

SEC. 11.1.1-4 DUTIES - The Plumbing Inspector shall have the following duties, functions and responsibilities:

- A. To interpret and apply this Chapter;
- B. To issue all plumbing permits hereunder;
- C. To inspect or cause the inspection of all construction, installation, maintenance and alteration of plumbing, drainage and ventilation systems to see that such work is in accordance with the provisions of this Chapter;
- D. To perform the duties, functions and responsibilities specified in the current Job Description of the Town of Normal employment position "Plumbing Inspector", which Job Description is approved from time to time by the Town Council as part of the Salary Administration Program.

SEC. 11.1.1-5 RECORDS - All records and reports of the Plumbing Inspector shall be open to public inspection for good and sufficient reasons, at the stated office hours, but they shall not be removed from the office of the Plumbing Inspector without his written consent.

SEC. 11.1.1-6 RIGHT OF ENTRY - The Plumbing Inspector, in the discharge of his official duties, and upon proper certification, shall have the authority to enter any building, structure or premises at any reasonable hour.

DIVISION 2 – APPEALS

SEC. 11.1.2-1 APPEALS. All appeals of rulings or determinations of the Plumbing Inspector shall be to the Building Board of Appeals.

(Amended 2/5/07 by Ord. No. 5116)

DIVISION 3 - LICENSE, PERMITS, REGISTRATION, INSPECTION AND FEES

SEC. 11.1.3-1 STATE LICENSE REQUIRED - Except as specifically otherwise provided in this Chapter, it shall be unlawful for any person, firm or corporation to do or perform any plumbing, as that term is defined in the Illinois State Plumbing Code as adopted and modified hereby, within the corporate limits of the Town of Normal without being appropriately licensed under the provisions of the Illinois Plumbing License Law. Notwithstanding the foregoing, all materials attached to water supply mains, including water piping up to the outlet valve of a backflow preventative device must be installed by a licensed plumber. All fire hydrants and water pipes downstream of the backflow prevention device used exclusively for fire protection, shall be installed by a licensed plumber or a sprinkler fitter. (Amended 10/21/02 by Ord. No. 4824)

SEC. 11.1.3-2 LOCAL REGISTRATION REQUIRED - Except as specifically provided in this Chapter, it shall be unlawful for any person, firm or corporation to do or perform any plumbing, as that term is defined in the Illinois State Plumbing Code as adopted and modified hereby, without being appropriately registered as a Plumbing Contractor in the Town of Normal:

- A. Persons, firms or corporations desiring to do or perform plumbing within the Town of Normal shall file as Plumbing Contractors with the Plumbing Inspector the name, place of residence and place of business of all persons doing or performing plumbing work; a copy of the State license authorizing such individual or firm to do or perform such work within the State of Illinois and pay an annual \$50.00 registration fee. (Amended 12/18/00 by Ord. No. 4696)

SEC. 11.1.3-3 RESERVED

SEC. 11.1.3-4 RESERVED

SEC. 11.1.3-5 RESERVED

SEC. 11.1.3-6 NON-TRANSFERABILITY - No registration under this Chapter shall be loaned, rented, assigned or transferred.

SEC. 11.1.3-7 RESERVED.

SEC. 11.1.3-8 REVOCATION OF RIGHTS AND PRIVILEGES - Any plumber, person engaging in the business of plumbing or person performing plumbing under contract for a fee may have his registration in the Town of Normal, and thereby his right to perform plumbing within the Town of Normal, revoked by the Board, for cause, after notice and an opportunity to be heard in his own defense. Cause for revocation of registration shall include, but not be limited to:

- A. Refusal or failure to make necessary corrections to plumbing work within a reasonable time after notification of the defects therein;
- B. Failure to obtain plumbing permits;
- C. Transfer of plumbing permits;
- D. Failure to call for required inspections;

- E. Unwillingness or inability to install plumbing in accordance with the terms and provisions of this Chapter;
- F. Performing work not authorized by the class of license held; and
- G. Violation of any provision of this Chapter.

SEC. 11.1.3-9 PERMITS REQUIRED - Except as specifically otherwise provided in this Chapter, it shall be unlawful for any person, firm or corporation to do or perform any "plumbing" as that term is defined in the Illinois State Plumbing Code as adopted and modified hereby without first obtaining a permit in the manner provided by Rule 14.4 of said Code, as so adopted and modified.

SEC. 11.1.3-10 EXPIRATION AND TRANSFERABILITY OF PLUMBING PERMITS

- A. Transferability - Plumbing permits shall not be transferable and if after issuance, another person, firm or corporation desires to complete the work initiated under a permit, it shall be necessary to obtain a new plumbing permit authorizing such completion.
- B. Expiration - If plumbing work is not commenced under a permit within six months after the date of issuance, the permit shall be considered to have expired.

SEC. 11.1.3-11 FEES.

- A. Charges - Fees for plumbing and irrigation permits and the inspection of work performed thereunder shall be as follows:
 - 1. For each plumbing permit, the charges shall be \$9.00 per opening for 1 and 2 family construction and \$12.00 per opening for all other work with a \$30.00 minimum. The word "opening" being meant to include all openings left for waste pipes, whether fixtures are set or not, including the following: (Amended 5/3/82)(Amended 2/16/87)(Amended 1/19/93 by Ord. 4104)(Amended 4/16/01 by Ord. No. 4720)(Amended 2/4/08 by Ord. No. 5170)
 - a. Bathtub - with or without shower;
 - b. Water closets - floor and wall mount;
 - c. Bidet;
 - d. Shower - stall or compartment;
 - e. Lavatory - bar sinks;
 - f. Urinal - pedestal, wall type, floor and trough;
 - g. Drinking fountains;
 - h. Kitchen sink - including garbage disposal and dishwasher;
 - i. Drain - floor, explosion proof, grease, oil, sand and all other interceptors;
 - j. Automatic washer standpipe and all "p" traps that catch indirect waste;
 - k. Dishwasher - restaurant or commercial.

- B. Procedure. The Plumbing Inspector shall be notified by the person performing the plumbing work when it or any portion of it is ready for inspection at least twenty-four (24) hours prior to the requested inspection time. All work shall be left uncovered and convenient for inspection until inspected and approved. The Inspector shall endeavor to examine the work within one working day after notified that it is ready for inspection. All plumbing work when placed in position may be required to be tested by appropriate tests in the presence of the Inspector and any and all defects corrected. On satisfactory completion of the plumbing work and approval by the Inspector, the premises, installation or portion thereof obtaining approval shall be so posted.
- C. Inspection Upon Complaint. Upon complaint, in writing, of any citizen of this Town alleging the existence of an unsafe condition in any part of any such plumbing system within the Town, it shall be the duty of such Plumbing Inspector to inspect such part complained of, and if he finds that such complaint is well grounded, or if he otherwise finds any defect, to require the owner of the property on which the defective condition is located to put such part in proper condition, and it shall then be the duty of such owner to put such defective part in proper condition.
- D. Condemnation of Plumbing Work or Equipment: Right of Appeal. The Town Plumbing Inspector shall have the authority upon inspection or reinspection, either pursuant to permit, on complaint or on his own initiative, to condemn any and all plumbing work installed or being installed that may be done without permit; that may be done contrary to approved plans, specifications and drawings; or that may be done by any person, firm, association, partnership or corporation not entitled to do plumbing within the Town of Normal; or that is in a condition which may be considered unsafe or hazardous to life or property. Upon condemnation of such work, he shall serve a written notice upon the person owning, using or installing the same, or the person, firm or corporation owning the property on which such plumbing is located, requiring such person to place the work in a secure and safe condition and one which is in all respects in compliance with the provisions herein contained. It shall be unlawful for any person, firm or corporation to utilize condemned plumbing work.

SEC. 11.1.3-13 EXCEPTIONS.

- A. From the License and Registration Requirements of SEC. 11.1.3-1 and 11.1.3-2. The owner-occupant of a one-family dwelling may, with the assistance of any member of his family, personally carry on in such house any work governed by this Chapter without a plumbing license or registration, provided that such owner shall obtain a permit for any such work, shall call for inspections as provided in this Chapter and the State Plumbing Code as adopted and modified hereby, and shall install all plumbing to meet or exceed the standards provided in this Chapter and in the manner depicted on the approved plans, specifications and drawings, if any. Such ownership and occupancy shall be retained for at least one year from the date of final inspection and approval of such work.

DIVISION 4 – GENERAL REQUIREMENTS

SEC. 11.1.4-1 SCOPE OF DIVISION. The provisions of this Division shall control the design and installation of all new plumbing materials, fixtures, and systems and the alteration and/or extension of existing plumbing systems within the Town of Normal. All such installations shall conform to the provisions of this Chapter and the Illinois State Plumbing Code as adopted and modified hereby.

SEC. 11.1.4-2 ADOPTION OF THE ILLINOIS STATE PLUMBING CODE, WITH AMENDMENTS.

- A. Incorporation by Reference. There is hereby adopted by the Town of Normal for the purpose of establishing rules and regulations for materials, construction, alteration and inspection of all plumbing placed in or in connection with any building or structure, a certain plumbing code known as the Illinois State Plumbing Code, particularly the 2004 Edition thereof, with such amendments to said Code as are published from time to time by the State of Illinois and are filed with the Town Clerk, with specific additions, deletions, insertions, modifications and amendments (which said Code as so amended is in this Chapter referred to as the “Illinois State Plumbing Code” or “Code”) one copy of which with the specified additions, deletions, insertions, modifications and amendments has been for more than thirty (30) days prior to the adoption of the Ordinance incorporating it by reference, and is now filed in the Office of the Town Clerk of the Town of Normal. The provisions of said Code are hereby adopted and incorporated as fully as if set out at length and the provisions thereof as added, deleted, inserted, modified and amended by Paragraph B of this Section shall be controlling in regard to all buildings and structures within the corporate limits of the Town.
- B. Additions, Deletions, Insertions, Modifications and Amendments to the Illinois State Plumbing Code.
1. Section 890.120 Definitions – Add to the existing definitions in its appropriate alphabetical location, the following:

“Public Health Board” – Within the corporate limits of the Town of Normal, the McLean County Health Department shall constitute the “Public Health Board” as that term is used in this Code.
 2. Section 890.120 Definitions – Add to the existing definitions in its appropriate alphabetical location, the following:

“Administrative Authority” – Within its corporate limits, the Town of Normal shall be the “Administrative Authority” as that term is used in this Code.

3. Section 890.120 Definitions – Building Classification – Add to the existing language thereof, the following:

“Building Classification” as used in this Code shall refer to the building classifications set forth in the Building Code of the Town of Normal, being Chapter 11 of the Municipal Code of the Town of Normal, Illinois 1969, as amended.

4. Subpart D: Traps and Cleanouts – Amend Section 890.410,a) – by adding to the existing language thereof, the following:

“Provided that each compartment of a residential kitchen sink shall be separately trapped.”

5. Section 890.510 Amend Section 890.510 by adding to the existing language thereof the following:

In all new construction and remodeling in which a grease interceptor is required, only a grease interceptor with a capacity of no less than 1000 gallons placed outside of the building no closer than 5 feet from the wall of the building shall be approved. If physical limitations prohibit installation of a 1000 gallon grease interceptor, then the Plumbing Inspector may permit a 250 gallon interceptor if the Plumbing Inspector believes that there are adequate safeguards in place to prevent grease from entering the sewer system. Grease interceptors may only be placed inside a building in the event of a remodel of a building for which there is no space available outside of the building for a grease interceptor, or where the expected use of the property is that of a restaurant that will not cook food, but serve only prepared foods that will produce so little grease as to not require an exterior grease interceptor as determined by the Plumbing Inspector. In the event that the use of the property becomes such that an exterior grease interceptor is needed, the Plumbing Inspector may order that an exterior grease interceptor be placed on the property. All interior grease traps shall be Plumbing Drainage Institute approved with a solid waste interceptor located before the grease trap.

6. Section 890.880. Amend Section 890.800 by adding to the existing language the following:

All chemical dispensing units shall have a backflow preventer installed exterior to the unit and shall have no connections other than to the chemical dispenser or dispensers beyond the backflow preventer. All water softening and water purification units shall have a backflow preventer installed exterior to the unit and shall have no connections between the backflow preventer and the water softening or water softening device. The foregoing shall not apply to water softening or water purification systems installed in single family dwellings, or in multiple family dwellings where the unit services only a single dwelling unit.

7. Subpart I: Water Supply and Distribution – Delete from Section 890.1200 Water Service Sizing the following:

“Water service pipe and fittings shall be at least three-fourths (3/4) inch diameter.”

Add in place thereof the following:

“Water service pipe and fittings shall be at least one (1) inch in diameter. Except that existing water service pipe and fittings may be repaired or replaced with pipe and fittings at least ¾ inch in diameter.”

8. Section 890.1910. Amend Section 890.1910 by adding to the existing language the following:

All drain, waste and vent piping in commercial, industrial or multiple family buildings shall be tested with water while the Plumbing Inspector is present.

9. Section 890. Appendix A – Plumbing Materials, Equipment, Use Restrictions and Applicable Standards – Amend Table A – Approved Building Drainage/Vent Pipe by adding Note 5:

“Galvanized steel and galvanized wrought iron are not to be used for drain, waste and vent systems above ground or basement inside a building.”

10. Section 890. Appendix A – Plumbing Materials, Equipment, Use Restrictions and Applicable Standards – Amend Table A – Approved Materials for Water Service Pipe by adding Note 2:

“Plastic or other non-metallic pipe is not to be used for water service pipe.” Except polyethylene (PE) tubing meeting ASTM D 2737 – standard may be used. Polyethylene (PE) pipe shall be installed only with compression fittings with insert and clamp type fittings. All clamps shall be of corrosion resistant material. The inside diameter (ID) of any insert fitting shall not be less than the minimum allowable size for water service as required by the Town of Normal ordinances and State plumbing code. PE tubing is only allowed for residential buildings. PE tubing water service shall be one continuous pipe from the curb stop or pig tail to the building water meter. PE water service pipe shall have a solid 12 gauge blue sheathed coated, suited for direct burial, tracer wire connected to the coupling or curb stop secured to the service every 6 feet, unbroken, and accessible at the water meter. (Amended 12/6/2010 by Ord. No. 5365)

11. Section 890. Appendix A – Plumbing Materials, Equipment, Use Restrictions and Applicable Standards – Amend Table A – Approved Materials for Water Distribution Pipe by adding Note 3:

“Plastic or other non-metallic pipe is not to be used for potable water distribution except in the following circumstances:

- a. cross-linked polyethylene tubing may be used for potable water distribution; or
- b. for the installation of lawn sprinkler systems; or
- c. manufactured housing units (i.e. mobile homes), that are manufactured under the requirements of the Department of Housing and Urban Development may use material that conforms to the standards under which they were manufactured for interior work only; or
- d. water purification systems that produce deionized or reverse osmosis water may use plastic pipe in their distribution system; or
- e. fire suppression systems may use approved plastic pipe after the private fire service main as defined in NFPA 24. (Amended 10/21/02 by Ord. No. 4824)(Amended 12/6/2010 by Ord. No. 5365)

(ENTIRE SEC. 11.1.4-2 REVISED 11/20/95 BY ORD. NO. 4355)

SEC. 11.1.4-3 WATER CONSERVATION REQUIREMENTS. All new and replacement plumbing fixtures hereafter installed within the Town of Normal shall meet or exceed the following water conservation requirements:

- A. All tank type water closets shall use no more than 3.5 gallons of water per flush.
- B. All flush valves shall use no more than 3.5 gallons per flush for toilets and 1.5 gallons per flush for urinals. Other fixtures which use flush valves shall use no more than 3.5 gallons per flush.
- C. All faucets, hydrants, sillcocks, and similar fixtures except those for showers, kitchen sinks, and bathtubs shall have a flow rate of no more than 2.0 gallons per minute.
- D. All showers shall have a flow rate of no more than 2.5 gallons per minute.
- E. All landscape irrigation systems shall be designed and installed to use no more than 6.0 gallons per minute. All landscape irrigation systems shall also be equipped with a timer on the main control valve to shut off automatically after one (1) hour.
- F. All water used for cooling of equipment and machinery shall be recirculated.
- G. All car washes must be designed and built to recirculate wash and rinse water.
- H. All other fixtures, applications, or systems not specifically described above shall have their maximum water usage determined by the Town Plumbing Inspector on a case by case basis. No person shall install or cause the installation of any fixture, application, or system which exceeds the maximum water usage as determined by the Town Plumbing Inspector.
- I. Notwithstanding the foregoing, the Town Plumbing Inspector in consultation and approval of the Town Engineer may waive the requirements of subsections (a) or (b) above, where the slope of the building drain or building sewer or building sewer connection is less than the current Code requirements. (Entire Sec. 11.1.4-3 Added 2/15/93 by Ord. 4110)
- J. Installation of water-cooled ice machines is prohibited.

SEC. 11.1.4-4 MEDICAL GAS SYSTEM INSTALLATION.

- A. All Medical Gas Systems shall be installed in accordance with Chapter 99 of the National Fire Code, also known as NFPA 99 which is adopted hereby by reference.

DIVISION 5 – REGULATIONS ON CROSS CONNECTION CONTROL**SEC. 11.1.5-1 CROSS CONNECTION CONTROL**

- A. Purpose. The purpose of these Rules and Regulations is:
1. To protect the public water supply system from contamination or pollution by isolating within the customer's water system contaminants or pollutants which could back flow through the service connection into the public water supply system.
 2. To promote the elimination or control of existing cross connections, actual or potential, between the public or customer's potable water system and non-potable water systems, plumbing fixtures and sources or systems containing substances of unknown or questionable safety.
 3. To provide for the maintenance of a continuing program of cross connection control which will prevent the contamination or pollution of the public and customer's potable water systems.
- B. Application. These Rules and Regulations shall apply to all premises served by the public potable water supply system of the Town of Normal.
- C. Owner's Obligation. The owner of property shall be responsible for protection of the public water supply system from contamination due to back flow or back siphonage of contaminants through the customer's water service connection. If in the judgment of the Town of Normal plumbing inspector or his authorized representative, an approved back flow prevention device is necessary for the safety of the public water supply system, Town of Normal plumbing inspector shall give notice to the owner to install such approved back flow prevention device at each service connection where such device is needed. The owner shall immediately install such approved device or devices at his own expense. Failure, refusal or inability on the part of the owner to install such device or devices immediately shall constitute grounds for discontinuing water service to the premises until such device or devices have been installed. Failure, refusal or inability on the part of the owner to install such device or devices immediately shall be unlawful and the Town is authorized to seek immediate injunctive and equitable relief in Court as well as seeking fines and penalties as provided in SEC. 11.1.5-11 herein. The owner shall retain records of installation, maintenance, testing and repair as required in SEC. 11.1.5-4(D)(4) below for a period of at least five years. All cross-connection inspections shall be conducted by a Cross-Connection Control Device Inspector certified by the Illinois Environmental Protection Agency.

SEC. 11.1.5-2 DEFINITIONS:

Backflow. The term “backflow” shall mean water, wastes or other contaminants entering a public water supply system due to a reversal of flow.

Connection. The term “connection” shall mean any arrangement of piping or appurtenances attached to a public water supply system.

Cross Connection. The term “cross connection” shall mean a connection or arrangement of piping or appurtenances through which a backflow could occur.

Cross Connection Control Device Inspector (CCCDI). The term Cross Connection Control Device Inspector shall mean any person certified by the State of Illinois Environmental Protection Agency to perform cross connection device inspections.

Owner. The term “owner” shall include the record titleholder of property, a water customer served by the Town’s water system, and any person, corporation, firm or other entity actually in control of property.

Water system. The term “water system” shall have the following meaning:

- A. The water system shall be considered as made up of two parts: the public water supply system and the customer’s water system.
- B. The public water supply system shall consist of the source facilities and the distribution system, and shall include all those facilities of the potable water system under the control of the Director of Water up to the point where the customer’s water system begins.
- C. The source shall include all components of the facilities utilized in the production, treatment, storage and delivery of water to the public water supply distribution system.
- D. The public water supply distribution system shall include the network of conduits or watermains used to deliver water from the source to the owner’s water system.
- E. The owner’s water system shall include all parts of the facilities beyond the water service connection used to convey water from the public water supply distribution system to points of use.

SEC. 11.1.5-3 CROSS CONNECTION PROHIBITED.

- A. Connections between the public water supply systems and other systems or equipment containing water or other substances are prohibited except when and where approved cross-connection control devices or methods are installed, tested and maintained to insure proper operation on a continuing basis. Fire protection systems and irrigation systems which contain installed piping and are connected to

the public water supply system are prohibited except when and where approved back flow preventers are installed, tested and maintained to insure proper operation on a continuing basis.

- B.
 - 1. No physical connection shall be permitted between the potable portion of a supply and any other water supply not of equal or better bacteriological and chemical quality as determined by inspection and analysis by the Agency.
 - 2. There shall be no arrangement or connection by which an unsafe substance may enter a water supply.
- C. It shall be unlawful for any owner to have on his or her property any connection in violation of this Section.

SEC. 11.1.5-4 SURVEY AND INVESTIGATIONS.

- A. An owner's premises shall be open at all reasonable times to the approved Cross-connection Control Device Inspector for the inspection of the presence or absence of cross-connections within the owner's premises, and testing, repair and maintenance of cross-connection control devices within the owner's premises.
- B. On request by the Town of Normal plumbing inspector, or his authorized representative, the owner shall furnish information regarding the piping system or systems or water use within the owner's premises. The premises shall be open at all reasonable times to the Town of Normal plumbing inspector, or his authorized representative, for the verification of information submitted by the inspection customer to the public water supply custodian regarding cross-connection inspection results.
- C. Every owner of non-residential property receiving water from the public water supply shall cause his property to be surveyed by a Cross Connection Control Device Inspector (CCCDI) for the water use practices on his premises to determine whether there are actual or potential cross connections to his water system through which contaminants or pollutants could back flow into his or the public potable water system. Every owner of residential property receiving water from the public water supply which has a fire suppression system or irrigation system connected to the public water supply system shall cause the property to be surveyed by a Cross Connection Control Device Inspector for the water use practices on his premises to determine whether there are actual or potential cross-connections to his water system through which contaminants or pollutants could back flow into his or the public potable water system. The survey must be done every other year and recorded with the Town of Normal on a form issued by the Town's Plumbing Inspector. All cross-connection control inspections must be conducted by a Cross Connection Control Device Inspector in accordance with 225 ILCS 320/3.

- D. It is the responsibility of the owner to prevent back flow into the public water system by ensuring that:
1. All cross connections are removed; or approved cross-connection control devices are installed for control of back flow and back siphonage.
 2. Cross connection control devices shall be installed in accordance with the manufacturer's instructions.
 3. Cross connection control devices shall be inspected at the time of installation and at least annually by a person approved by the State of Illinois Environmental Protection Agency as a Cross Connection Control Device Inspector (CCCDI). The inspection of mechanical devices shall include physical testing in accordance with the manufacturer's instructions. A record of the annual inspection shall be filed with the Town of Normal Plumbing Inspector.
 4. Testing and Records:
 - a. Each device shall be tested at the time of installation and at least annually or more frequently if recommended by the manufacturer.
 - b. Records submitted to the community public water supply shall be available for inspection.
 - c. Each device shall have a tag attached listing the date of most recent test, name of CCCDI, and type and date of repairs.
 - d. Every owner shall maintain for a period of five years, a maintenance log for each cross connection device which shall include:
 - (1) date of each test;
 - (2) name and approval number of person performing the test;
 - (3) test results;
 - (4) repairs or servicing required;
 - (5) repairs and date completed; and
 - (6) servicing performed and dated completed.

SEC.11.1.5-5 WHERE PROTECTION IS REQUIRED.

- A. An approved back flow device shall be installed on all connections to the public water supply as described in the Plumbing Code, 77 Ill. Adm. Code 890 and the Illinois Environmental Protection Agency's regulations, 35 Ill. Adm. Code 680. In addition, an approved back flow prevention device shall be installed on each water service line to an owner's water system serving premises, where in the judgment of the Town of Normal plumbing inspector, actual or potential hazards to the public water supply system exist.
- B. An approved back flow prevention device shall be installed on each water service line to an owner's water system serving premises where the following conditions exist:
1. Premises having an auxiliary water supply, unless such auxiliary supply is accepted as an additional source by the Director of Water and the source is approved by the Illinois Environmental Protection Agency.
 2. Premises on which any substance is handled which can create an actual or potential hazard to the public water supply system. This shall include premises having sources or systems containing process fluids or waters originating from the public water supply system which are no longer under the sanitary control of the Director of Water or the Town of Normal Plumbing Inspector.
 3. Premises having internal cross connections that, in the judgment of the Town of Normal plumbing inspector and/or the Cross Connection Control Device Inspector, are not correctable or which have intricate plumbing arrangements which make it impractical to determine whether or not cross-connections exist.
 4. Premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete cross connection survey.
 5. Premises having a repeated history of cross connections being established or reestablished.
- C. An approved back flow device shall be installed on all connections to the public water supply as described in the Plumbing Code, 77 Ill. Adm. Code 890 and the Agency's regulations, 35 Ill. Adm. Code 653. In addition, an approved back flow prevention device shall be installed on each service line to a customer's water system serving, when the potential of a high hazard cross connection to the public water system exists as determined by The Town of Normal plumbing inspector.

- D. All yard hydrants, wall hydrants, hose bibs and boiler drains used to supply domestic water, shall have an integral, non-removable, backflow device. Vacuum breakers that are not factory installed and can be removed are not permissible.
- E. All boilers shall have a Reduced Pressure Principle Backflow Device (RPZ), an approved break tank, or approved air gap device located on the water supply piping to the boiler. All other backflow devices are prohibited. The back flow device shall be installed by a licensed plumber and certified annually by a licensed Cross Connection Control Device Inspector.

SEC. 11.1.5-6 TYPE OF PROTECTION REQUIRED.

- A. The type of protection required under SEC. 11.1.5-5 (B)(1), (2) and (3) of these regulations shall depend on the degree of hazard which exists as follows:
 - 1. An approved fixed proper air gap separation shall be installed where the public water supply system may be contaminated with substances that could cause a severe health hazard.
 - 2. An approved fixed proper air gap separation or an approved reduced pressure principle back flow prevention assembly shall be installed where the public water supply system may be contaminated with a substance that could cause a system or health hazard.
 - 3. An approved fixed proper air gap separation or an approved reduced pressure principle back flow prevention assembly or a double check valve assembly shall be installed where the public water supply system may be polluted with substances that could cause a pollution hazard not dangerous to health.
- B. The type of protection required under SEC. 11.1.5-5(B)(4) and (5) of these regulations shall be an approved fixed proper air gap separation or an approved reduced pressure principle back flow prevention device.
- C. Where a public water supply or an auxiliary water supply is used for a fire protection system, reduced pressure principle back flow preventers shall be installed on fire safety systems connected to the public water supply when:
 - 1. the fire safety system contains antifreeze, fire retardant or other chemicals; or,
 - 2. water is pumped into the system from another source; or,
 - 3. water flows by gravity from a non-potable source, water can be pumped into the fire safety system from any other source; or,
 - 4. there is a connection whereby another source can be introduced into the fire safety system; or,

5. a private water service supplying potable water to a fire hydrant on private property.

All fire protection systems which have a supply line greater than two inches shall have a reduced pressure principle detector assembly (RFDA).

- D. All other fire safety systems connected to the potable water supply shall be protected by a double check valve assembly on metered service lines and a double detector check valve assembly on unmetered service lines.

SEC. 11.1.5-7 BACK FLOW PREVENTION DEVICES.

- A. All back flow prevention devices or methods required by these rules and regulations shall be approved by the Research Foundation for Cross Connection Control of the University of Southern California, American Water Works Association, American Society of Sanitary Engineering, Canadian Standards Foundation, or American National Standards Institute or certified by the National Sanitation Foundation to be in compliance with applicable industry specification.
- B. Installation of approved devices shall be made in accordance with the manufacturer's instructions. Maintenance as recommended by the manufacturer of the device shall be performed. Manufacturer's maintenance manual shall be available on-site.

SEC. 11.1.5-8 INSPECTION AND MAINTENANCE.

- A. It shall be the duty of the owner at any premises on which back flow prevention devices required by these regulations are installed to have inspection, tests, maintenance and repair made in accordance with the following schedule or more often where inspections indicate a need or are specified in manufacturer's instructions.
 1. Fixed proper air gap separations shall be inspected to document that a proper vertical distance is maintained between the discharge point of the service line and the flood level rim of the receptacle at the time of installation and at least annually thereafter. Corrections to improper or by-passed air gap shall be made within 24 hours.
 2. Double check valve assemblies shall be inspected and tested at time of installation and at least annually thereafter and required service performed within five (5) days.
 3. Reduced pressure principle back flow prevention assemblies shall be tested at the time of installation and at least annually or more frequently if recommended by the manufacturer and required service performed within five (5) days.

- B. Testing shall be performed by a person who has been approved by the Illinois Environmental Protection Agency as competent to service the device. Proof of approval shall be in writing.
- C. Each device shall have a tag attached listing the date of most recent test or visual inspection, name of tester, and type and date of repairs.
- D. A maintenance log shall be maintained and include:
 - 1. date of each test or visual inspection;
 - 2. name and approval number of person performing the test or visual inspection;
 - 3. test results;
 - 4. repairs or servicing required;
 - 5. repairs and date completed; and
 - 6. servicing performed and date completed.
- E. Whenever back flow prevention devices required by these regulations are found to be defective, they shall be repaired or replaced at the expense of the owner without delay as required by this Section.
- F. Back flow prevention devices shall not be bypassed, made inoperative, removed or otherwise made ineffective without specific authorization by the Town of Normal Plumbing Inspector.

SEC. 11.1.5-9 BOOSTER PUMPS.

- A. Where a booster pump has been installed on the water service line to or within any premises, such pump shall be equipped with a low pressure cutoff device designed to shutoff the booster pump when the pressure in the water service line on the suction side of the pump drops to 20 psi or less.
- B. It shall be the duty of the owner to maintain the low-pressure cutoff device in proper working order and to certify to the Town of Normal Plumbing Inspector, at least once a year, that the device is operable.

SEC. 11.1.5-10 FEES.

- A. There shall be a \$35.00 fee for filing the survey submitted to the Town of Normal Plumbing Inspector. The fee shall be assessed for each survey filed. This fee shall be assessed each time a survey is filed, regardless of whether the survey submitted had been filed previously and is being resubmitted to correct deficiencies or errors in a previously filed survey.

- B. There shall be a \$15.00 fee for filing the annual certification of cross connection control devices as required in SEC. 11.1.5-4(D)(3) of this Chapter. The fee shall be assessed for each device certified.
- C. All fees provided for herein shall be paid to the Town of Normal.

SEC. 11.1.5-11 VIOLATIONS.

- A. The Director of Water of the Town of Normal is authorized and may discontinue, after reasonable notice to the owner thereof, the water service to any property which fails to provide any survey, inspection report, or fee required by this Division. The Director of Water, shall deny or discontinue, after reasonable notice to the occupants thereof, the water service to any premises wherein any back flow prevention device required by these regulations is not installed, tested, maintained and repaired in a manner acceptable to the Town of Normal Plumbing Inspector, or if it is found that the back flow prevention device has been removed or bypassed, or if an unprotected cross connection exists on the premises, or if a low pressure cutoff required by these regulations is not installed and maintained in working order. (Amended 3/7/2011 by Ord. No. 5372)
- B. Water service to such premises shall not be restored until the owner has corrected or eliminated such conditions or defects in conformance with these regulations and to the satisfaction of the Town of Normal plumbing inspector, and the required reconnection fee is paid.
- C. Neither the Town of Normal, the Director of Water, Town of Normal plumbing inspector or its agents or assigns shall be liable for any injury, damages or lost revenues which may result from termination of said water supply in accordance with the terms of this ordinance, whether or not said termination of the water supply was with or without notice.
- D. An owner is responsible for back-siphoned material or contamination through back flow, if contamination of the potable water supply system occurs through an illegal cross-connection or an improperly installed, maintained or repaired device, or a device which has been bypassed. The owner must bear the cost of cleanup of the potable water supply system.
- E. Any person found to be violating any provision of this Ordinance may be served with written notice stating the notice of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violation.
- F. Any person violating any of the provisions of this Ordinance shall become liable to the Town of Normal for any expense, loss or damage occasioned by the Town of Normal by reason of such violation, whether the same was caused before or after notice.

- G. Any person violating any of the provisions of this Division shall, in addition to any other penalties or equitable relief provided, be subject to penalties as set forth in SEC. 11.1.6-4 of this Code.

(Entire Division 5 of Chapter 12 Added 12/16/02 by Ord. No. 4847)

DIVISION 6 - ADMINISTRATION

SEC. 11.1.6-1 CONSTRUCTION OF CHAPTER - Nothing in this Chapter shall be construed to exempt any person, firm or corporation from liability now existing or that in the future may arise, to the Town of Normal or any person for damage from negligence or from defective construction relating to maintaining or installing plumbing materials and fixtures within the corporate limits of the Town of Normal or on Town property outside the corporate limits of the Town, nor to release any person, firm or corporation from any restriction under ordinance granting them their respective franchises nor shall the Town be held to assume any liability by reason of the inspection authorized herein or certificate or permit being issued pursuant to the provisions of the Chapter, or from a failure of the Inspector to perform his full duties hereunder.

SEC. 11.1.6-2 CONFLICT OF PROVISIONS OF CODE OF THE TOWN: EFFECT OF PARTIAL INVALIDITY - In any case, where a provision of this Chapter is found to be in conflict with any zoning, building, fire safety or health provision of the Code of the Town existing on the effective date of this Chapter or hereafter adopted, the provision which establishes the higher standard for the promotion and protection of the health and safety of the people shall prevail. In any case where any other of the Code provisions of the Town establish a lower standard for the promotion and protection of the health and safety of the people, the provisions of this Chapter shall be deemed to prevail.

SEC. 11.1.6-3 SEVERABILITY - It is hereby declared to be the intention of the Town Council of the Town of Normal, Illinois, that the several provisions of this Code are severable in accordance with the following:

- A. If any court of competent jurisdiction shall adjudge any provisions of this Code to be invalid, such judgment shall not affect any other provisions of this Code not specifically included in said judgment order.
- B. If any Court of competent jurisdiction shall adjudge invalid the application of any provision of this Code to a particular property, building or structure, such judgment shall not affect the application of said provision to any other property, building or structure, not specifically included in said judgment order.

SEC. 11.1.6-4 PENALTIES. Any person, found guilty of violating, disobeying, omitting, neglecting, or refusing to comply with, or resisting or opposing the investigation or enforcement of any of the provisions of this Chapter, or any of the Codes adopted and modified hereby, upon conviction thereof shall be punished by a fine of not less than Twenty-Five (\$25.00) Dollars nor more than Two Hundred (\$200.00) Dollars for the first offense and not less than Fifty (\$50.00) Dollars nor more than Five Hundred (\$500.00) Dollars for the second and each subsequent offense in any 180 day period; provided however, that all actions seeking the imposition of fines only shall be filed as quasi-criminal actions, subject to the provisions of the Illinois Code of Civil Procedure. A separate and distinct offense shall be regarded as committed each day upon which said person shall continue any such violation, or permit any such violation to exist after notification or knowledge of the existence thereof. (Amended 6/3/02 by Ord. No. 4797).

(Amended 8/2/99 by Ord. No. 4608)

Entire Chapter 12 Amended 2/7/05 by Ord. No. 4994.

Entire Chapter 12 Renumbered from 12 to 11.1 2/5/07 by Ord. No. 5116.