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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE F: PUBLIC WATER SUPPLIES  
CHAPTER I: POLLUTION CONTROL BOARD

PART 601  
INTRODUCTION

Section

- 601.101 General Requirements
- 601.102 Applicability and Organization of this Chapter
- 601.103 Severability
- 601.104 Analytical Testing
- 601.105 Definitions
- 601.115 Incorporations~~Incorporation~~ by Reference

601.APPENDIX A References to Former Rules (Repealed)

AUTHORITY: Implementing Section 17 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/17 and 27].

SOURCE: Filed with Secretary of State January 1, 1978; amended at 2 Ill. Reg. 36, p. 72, effective August 29, 1978; amended at 3 Ill. Reg. 13, p. 236, effective March 30, 1979; amended and codified at 6 Ill. Reg. 11497, effective September 14, 1982; amended at 6 Ill. Reg. 14344, effective November 3, 1982; amended in R84-12 at 14 Ill. Reg. 1379, effective January 8, 1990; amended in R89-5 at 16 Ill. Reg. 1585, effective January 10, 1992; amended in R96-18 at 21 Ill. Reg. 6537, effective May 8, 1997; amended in R15-22 at 40 Ill. Reg. 6784, effective April 15, 2016; amended in R18-17 at 43 Ill. Reg. 8016, effective July 26, 2019; amended in R18-26 at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

**Section 601.101 General Requirements**

- a) Owners and official custodians of a public water supply in the State of Illinois must provide, under the Act, Board Rules, and the Safe Drinking Water Act (42 U.S.C.~~USE~~ 300f et seq.), continuous operation and maintenance of public water supply facilities to assure that the water is safe in quality, clean, adequate in quantity, and of satisfactory mineral characteristics for ordinary domestic consumption.
- b) Finished Water Quality

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- 1) The finished water delivered to any user at any point in the distribution system must contain no impurity at a concentration that may be hazardous to the health of the consumer or that would be excessively corrosive or otherwise deleterious to the water supply. Drinking water delivered to any user at any point in the distribution system must contain no impurity that could reasonably be expected to cause offense to the sense of sight, taste, or smell.
- 2) ~~Any~~ substance used in treatment ~~must not~~~~should~~ remain in the water at a concentration greater than that required by good practice. A substance that may have a deleterious physiological effect, or one for which physiological effects are not known, must not be used in a manner that would permit it to reach the consumer.
- 3) Concentrations of constituents listed in the following chart should not be exceeded in the finished water.

<u>Contaminant</u>	<u>Secondary MCL</u>	<u>Noticeable Effects above the Secondary MCL</u>
Aluminum	0.2 mg/L	colored water
Chloride	250 mg/L	salty taste
Color	15 color units	visible tint
Copper	1 mg/L	metallic taste; blue-green staining
Fluoride	2.0 mg/L	tooth discoloration
Foaming Agents	0.5 mg/L	frothy, cloudy; bitter taste; odor
Iron	0.3 mg/L	rusty color; sediment; metallic taste; reddish or orange staining
Manganese	0.05 mg/L	black to brown color; black staining; bitter metallic taste

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Odor	3 T.O.N. (Threshold Odor Number)	"rotten-egg", musty or chemical smell
Silver	0.1 mg/L	skin discoloration; graying of the white part of the eye
Sulfate	250 mg/L	salty taste
Total Dissolved Solids	500 mg/L	hardness; deposits; colored water; staining; salty taste

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.102 Applicability and Organization of this Chapter**

- a) This Chapter applies~~The provisions of this Chapter shall apply~~ to groundwater and public water supplies, except for those designated as non-community water supplies. A public water supply ends~~shall be considered to end~~ at each service connection.
- b) The rules in this Chapter~~Board regulations adopted in this Chapter~~ are organized as follows~~provided in this Section~~.
- 1) Part 601 contains definitions, analytical testing requirements, and incorporations by reference applicable to Parts 601, 602, 603, and 604~~607~~.
  - 2) Part 602 contains permitting requirements and standards for community water supplies and technical, financial, and managerial capacity requirements for new community water supplies.
  - 3) Part 603 contains ownership and responsible personnel requirements for community water supplies.
  - 4) Part 604 contains design, operation, and maintenance criteria for community water supplies.~~Part 607 contains requirements for emergency operation and cross-connection control.~~
  - 5) Part 611 contains rules~~regulations~~ identical in substance to~~with~~ federal

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regulations promulgated by the United States Environmental Protection Agency (USEPA) ~~under sections pursuant to Sections~~ 1412(b), 1414(c), 1417(a)<sub>2</sub> and 1445(a) of the Safe Drinking Water Act (SDWA) (42 ~~U.S.C.~~ ~~USC~~ 300g-1(b), 300g-3(c), 300g-6(a)<sub>2</sub> and 300j-4(a)). Part 611 establishes primary drinking water ~~rules~~ ~~regulations~~ and includes definitions and incorporations by reference applicable to Part 611.

- 6) Part 615 contains requirements and standards for the protection of groundwater for certain types of existing facilities or units located wholly or partially within a setback zone or a regulated recharge area. Part 615 includes definitions and incorporations by reference applicable to Part 615.
- 7) Part 616 contains requirements and standards for the protection of groundwater for certain types of new facilities or units located wholly or partially within a setback zone or a regulated recharge area. Part 616 includes definitions applicable to Part 616.
- 8) Part 617 contains the requirements and standards for regulated recharge areas. Part 617 includes definitions and an incorporation by reference applicable to Part 617.
- 9) Part 618 contains requirements and standards for maximum setback zones. Part 618 includes definitions applicable to Part 618.
- 10) Part 620 contains the method of classification of groundwater, nondegradation provisions, the groundwater quality standards, and procedures and protocols for the management and protection of groundwater. Part 620 includes definitions and incorporations by reference applicable to Part 620.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.103 Severability**

If any provision of ~~this Chapter or its~~ ~~these rules or regulations~~ is adjudged invalid, or if the application ~~thereof~~ to any person or in any circumstance is adjudged invalid, ~~that adjudication will~~ ~~such invalidity shall~~ not affect the validity of this Chapter as a whole, or any ~~portion~~ ~~other part, sub part, sentence or clause~~ ~~thereof~~ not adjudged invalid.

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(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.104 Analytical Testing**

- a) To determine compliance with the community water supplies rules in this Subtitle F and regulations (35 Ill. Adm. Code Subtitle F), all sampling, monitoring, and testing must ~~shall~~ be made according to the methods described in 35 Ill. Adm. Code 611, the National Primary Drinking Water Regulations (40 CFR 141), and ~~or~~ any other method specifically approved by the Agency.
- b) All analyses for substances other than those listed in 35 Ill. Adm. Code 611 must be performed by methods acceptable to the Agency.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.105 Definitions**

- a) For ~~purposes of~~ 35 Ill. Adm. Code 601, 602, 603, and 604, unless a different meaning of a word or term is clear from the context:

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Air Gap" means the unobstructed vertical distance through the free atmosphere between the water discharge point and the flood level rim of the receptacle.

"Atmospheric Vacuum Breaker" means a device designed to admit atmospheric pressure into a piping system whenever a vacuum is caused on the upstream side of the receptacle.

"Aquifer Property Data" means the porosity, hydraulic conductivity, transmissivity, and storage coefficient of an aquifer, head, and hydraulic gradient.

"Board" means the Illinois Pollution Control Board.

"Boil Order" means a notice to boil all drinking and culinary water for at least five minutes before use, issued by the proper authorities to the consumers of a public water supply affected, whenever the water being supplied may have become microbiologically contaminated.

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"Certified Laboratory" means any laboratory certified under Section 4(o) of the Act, or certified by USEPA for the specific parameters to be examined.

"Chlorine"

"Chlorine Demand" means the difference between the amount of chlorine applied to a given water and the amount of total available chlorine remaining at the end of the contact period. All test conditions (contact time, pH, and temperature) must be given, expressing the chlorine demand in a given water.

"Combined Chlorine" means the reaction product formed when chlorine has reacted with ammonia to form chloramines.

"Free Chlorine" means the residual chlorine existing in water as the sum of hypochlorous acid and hypochlorite ion.

"Total Chlorine" means the sum of the free chlorine and the combined chlorine.

"Community Water Supply" or "CWS" means a public water supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents. [\[415 ILCS 5/3.145\]](#)~~(Section 3.145 of the Act)~~

"Confined Geologic Formations" are geologic ~~water-bearing~~ water-bearing formations protected against the entrance of contamination by other geologic formations.

"Conventional Filtration Treatment" means a series of processes, including coagulation, flocculation, sedimentation, and filtration resulting in substantial particulate removal.

"Cross-connection" means any physical connection or arrangement between two otherwise separate piping systems where flow from one system to the other is possible.

"CT" or "CT<sub>calc</sub>" is the product of "residual disinfectant concentration" (RDC or C) in mg/L determined before or at the first customer, and the corresponding

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"disinfectant contact time" (T) in minutes. If a supplier applies disinfectants at more than one point prior to the first customer, it must determine the CT of each disinfectant sequence before or at the first customer to determine the total percent inactivation or "total inactivation ratio". In determining the total inactivation ratio, the supplier must determine the RDC of each disinfection sequence and corresponding contact time before any subsequent disinfection application points.

"Disinfectant" means any agent, including chlorine, chlorine dioxide, chloramines, and ozone, added to water in any part of the treatment or distribution process, that is intended to kill or inactivate pathogenic microorganisms.

"DPD Method" means an analytical method for determining chlorine residual utilizing the reagent DPD (n-diethyl-p-~~phenylenediamine~~~~phenylenediamine~~).

"Effective External Linkage" is the ability of a water system to communicate and exchange information with water customers, regulators, technical and financial assistance organizations, and other entities that routinely interact with the water system.

*"Groundwater" means underground water which occurs within the saturated zone and geologic materials where the fluid pressure in the pore space is equal to or greater than atmospheric pressure. [\[415 ILCS 5/3.210\]](#)~~(Section 3.210 of the Act)~~*

"Head" means the sum of the elevation head, pressure head, and velocity head at a given point in an aquifer.

"Hydraulic Conductivity" means the rate of flow in gallons per day (gpd) through a cross section of one square foot (ft<sup>2</sup>) under a unit hydraulic gradient (gpd/ft<sup>2</sup>).

"Hydraulic Gradient" means the rate of change of total head per unit distance of flow in a given direction.

"Infrastructure" means all mains, pipes, and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks, and appurtenances, collectively or severally, actually used or intended to be used ~~to furnish for the purpose of furnishing~~ water for drinking or general domestic use.

"Interconnection" means a physical connection between two or more community water supply systems.

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"Maximum Average Daily Demand" or "Maximum Demand" means the highest average daily production over seven consecutive days.

"New Community Water Supply" means, beginning after October 1, 1999, all new community water supplies and those water supplies that expand their infrastructure to serve or intend to serve at least 15 service connections used by residents or regularly serveserves at least 25 residents. Any water supply that is not currently a community water supply butthat adds residents so that the total served is 25 residents or more without constructing additional infrastructure will become a community water supply; but will not be required to demonstrate capacity under 35 Ill. Adm. Code 602.103 unless the community water supply is on restricted status as required by 35 Ill. Adm. Code 602.106.

"Non-community Water Supply" means *a public water supply that is not a community water supply.* [415 ILCS 5/3.145](Section 3.145 of the Act)

"Official Custodian" means *an individual who is an officer of an entity that is the owner of a community water supply and acts as the owner's agent in matters concerning the community water supply.* [415 ILCS 45/9.4]

"Porosity" means the percentage of the bulk volume of a rock or soil that is occupied by interstices, whether isolated or connected, as defined by the ratio of the pore volume to the total volume of a representative sample of the medium.

*"Public Water Supply" means all mains, pipes, and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks, and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year.* [415 ILCS 5/3.365](Section 3.365 of the Act)

"Responsible Operator in Charge" *means an individual who is designated as a Responsible Operator in Charge of a community water supply under Section 1 of the Public Water Supply Operations Act [415 ILCS 45/1] and 35 Ill. Adm. Code 603.* [415 ILCS 45/9.6]

"Satellite Supply" means any community water supply that:



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purchases all finished water from another community water supply;

does not provide any treatment other than chlorination or corrosion control; and

distributes finished water to the consumers.

"Sell Water" means to deliver or provide potable water, obtained from a public water supply subject to [this Chapter](#)~~these regulations~~, to the consumer, who is then individually or specifically billed for water service, or where any monetary assessment is levied or required and specifically used for water service. Water supply facilities owned or operated by political subdivisions, homeowners' associations, and not-for-profit associations, as well as privately owned utilities regulated by the Illinois Commerce Commission, are considered to sell water whether or not a charge is specifically made for water.

"SEP" means special exception permit.

"Service Connection" is the opening, including all fittings and appurtenances, at the water main through which water is supplied to the user through a water service line.

"Storage Coefficient" means the volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head.

"Surface Water" means all tributary streams and drainage basins, including natural lakes and artificial reservoirs, which may affect a specific water supply above the point of water supply intake.

"Surface Water Supply Source" means any surface water used as a water source for a public water supply.

"Supply" means a community water supply.

"Transmissivity" means the rate in gallons per minute (gpm), at which water is transmitted horizontally through a unit width by the total saturated thickness of an aquifer, in feet (ft), under a unit hydraulic gradient (gpm/ft).

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"Water Main" means any pipe for ~~the purpose of~~ distributing potable water that serves or is accessible to more than one property, dwelling, or rental unit and is exterior to buildings.

"Water Service Line" means any pipe from the water main or source of potable water supply that serves or is accessible to not more than one property, dwelling, or rental unit of the user.

"Well Hydraulics" means equations that are applied to understand the effect that a pumping well structure has on inducing the movement of water through permeable rock formations and certain aquifer properties to determine the rate of withdrawal of the well. This term is inclusive of equations that quantify wellbore skin effects/well loss.

"Wellhead Protection Area" or "WHPA" means the surface and subsurface recharge area surrounding a community water supply well or well field, delineated outside of any applicable setback zones (under Section 17.1 of the Act) established under Illinois' Wellhead Protection Program, through which contaminants are reasonably likely to move toward the well or well field.

"Wellhead Protection Measures" means management practices needed to mitigate existing and future threats to the water quality within the delineated WHPA.

"Wellhead Protection Program" means the Wellhead Protection Program for the State of Illinois, approved by USEPA under section 1428 of the SDWA (42 ~~U.S.C.~~ USEC 300h-7).

- b) Terms not specifically defined in subsection (a), will have the meanings ascribed in 35 Ill. Adm. Code 611.
- c) Terms not specifically defined in subsection (a) or (b) will have the meanings specified in The Water Dictionary, incorporated by reference in Section 601.115.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.115 Incorporations by Reference**

- a) Abbreviations and Short-name Listing of References. The following names and abbreviated names are used in this Chapter ~~1~~ to refer to materials incorporated by reference:

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"ANSI" means those standards published by American National Standards Institute.

"ASME" means the American Society of Mechanical Engineers.

"ASTM" means those standards published by [ASTM International \(formerly the American Society for Testing and Materials\)](#).

"AWWA" means those standards published by the American Water Works Association.

"NSF" means those standards published by [NSF International \(formerly the National Sanitation Foundation\)](#)~~the National Science Foundation International~~.

"Recommended Standards" means "Recommended Standards for Water Works – Policies for the Review and Approval of Plans and Specifications for Public Water Supplies".

b) The [Board Agency](#) incorporates the following materials by reference:

ASME. American Society of Mechanical Engineers, Two Park Avenue, New York NY 10016, (800)843-2763, [www.asme.org](http://www.asme.org).

ASME BPVC-VIII-1-2015, Boiler & Pressure Vessel Code (BPVC), Section VIII – Rules for Construction of Pressure Vessels, Division 1: Rules for Construction and Pressure Vessels, 2015.

ASTM. American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken PA 19428-2959, (610)832-9500.

ASTM C 76-16, Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, approved November 1, 2016.

ASTM C 361-16, Standard Specification for Reinforced Concrete Low-Head Pressure Pipe, approved September 1, 2016.

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ASTM C 443-12, Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets, approved September 1, 2012.

ASTM D 1784-11, Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds, approved May 1, 2011.

ASTM D 1785-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120, approved August 1, 2015.

ASTM D 2241-09, Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series), approved December 1, 2009.

ASTM D 2464-15, Standard Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.

ASTM D 2466-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40, approved March 1, 2015.

ASTM D 2467-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.

ASTM D 2564-12, Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems, approved August 1, 2012.

ASTM D 3139-11, Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals, February 1, 2011.

ASTM F 437-15, Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.

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ASTM F 438-15, Standard Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40, approved March 1, 2015.

ASTM F 439-13, Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, approved August 1, 2013.

ASTM F 441/F 441M-15, Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80, approved August 1, 2015.

ASTM F 442/F 442M-13, Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR), approved June 1, 2013.

ASTM F 477-14, Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe, approved September 15, 2014.

ASTM F 493-14, Standard Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings, approved November 1, 2014.

ASTM F 1216-16, Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube, approved August 1, 2016.

AWWA. American Water Works Association et al., 6666 West Quincy Ave., Denver CO 80235, (303)794-7711.

AWWA A100-06, Water Wells, approved February 2, 2006, effective August 1, 2006.

AWWA B100-09, Granular Filter Material, approved January 25, 2009, effective March 1, 2010.

AWWA C151/A21.51-09, Ductile-Iron Pipe, Centrifugally Cast, approved January 25, 2009, effective September 1, 2009.

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AWWA C200-12, Steel Water Pipe, 6 In. (150 mm) and Larger, approved June 10, 2012, effective September 1, 2012.

AWWA C301-07, Prestressed Concrete Pressure Pipe, Steel-Cylinder Type, approved January 21, 2007, effective June 1, 2007.

AWWA C651-05, Disinfecting Water Mains, approved January 16, 2005, effective June 1, 2005.

AWWA C652-11, Disinfection of Water Storage Facilities, approved June 12, 2011, effective October 1, 2011.

AWWA C653-03, Disinfection of Water Treatment Plants, approved January 19, 2003, effective June 1, 2003.

AWWA C654-03, Disinfection of Wells, approved January 19, 2003, effective November 1, 2003.

AWWA C900-07 Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water Transmission and Distribution, 2007.

AWWA C905-10, Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 In. Through 48 In. (350 mm Through 1,200 mm), approved January 17, 2010, effective April 1, 2010.

AWWA C906-07 Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100 mm) Through 63 In. (1,600 mm) for Water Distribution and Transmission, 2007.

AWWA C907-12 Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water, Wastewater, and Reclaimed Water Service, effective March 1, 2012.

AWWA C909-09 Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 In. through 24 In. (100 mm through 600 mm) for Water, Wastewater, and Reclaimed Water Service, effective March 1, 2010.

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AWWA D100-11, Welded Carbon Steel Tanks for Storage, approved January 23, 2011, effective July 1, 2011.

AWWA D103-09, Factory Coated Bolted Carbon Steel Tanks for Water Storage, approved January 25, 2009, effective November 1, 2009.

AWWA D107-10, Composite Elevated Tanks for Water Storage, approved January 17, 2010, effective December 1, 2010.

"Improving Clearwell Design for CT Compliance" (1999).

"The Water Dictionary", 2<sup>nd</sup> Edition, 2010.

The Chlorine Institute, 1300 Wilson Boulevard, Suite 525, Arlington VA 22209, (703)894-4140, pubs@CL2.com.

Pamphlet 6: Piping Systems for Dry Chlorine, Edition 16, March 2013.

NSF, ~~National Sanitation Foundation~~ International, [789 N. Dixboro Road](#)~~3475 Plymouth Road, PO Box 130140~~, Ann Arbor MI [4810548113](#)~~0140~~, (734)769-8010.

NSF/ANSI 14-2012 Plastics Piping System Components and Related Materials, March 2013.

~~NSF~~NSF/ANSI ~~60-201460-2013~~ Drinking Water Treatment Chemicals – Health Effects, April 2014.

NSF/ANSI ~~61-201461-2013~~ Drinking Water System Components – Health Effects, March 2014.

NSF/ANSI 372-2011 Drinking Water System Components – Lead Content, July 2013.

"Recommended Standards for Water Works – Policies for the Review and Approval of Plans and Specifications for Public Water Supplies", 2012 Edition, Great Lakes – Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, Health Research

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Inc., Health Education Services Division, [821 Corning Tower](#) ~~PO Box 7126~~, Albany NY ~~12237+2224~~, (518) ~~431-1200439-7286~~.

"Standard Specifications for Water and Sewer Main Construction in Illinois", 7<sup>th</sup> Edition, 2014, Illinois Society of Professional Engineers, 100 East Washington Street, Springfield IL 62701, (217)544-7424.

USEPA, NSCEP. United States Environmental Protection Agency, National Service Center for Environmental Publications, P.O. Box 42419, Cincinnati, OH 45242-0419 (accessible ~~online~~ [online](#) and available by download from <http://www.epa.gov/nscep/>).

Disinfection Profiling and Benchmarking Guidance Manual, August 1999, EPA 815-R-99-013.

Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems, March 2016, EPA 816-B-16-003.

- c) No later amendments to or editions of the materials listed in subsection (b) are incorporated.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 601.APPENDIX A References to Former Rules (Repealed)**

~~The following table is provided to aid in referencing former Board rule numbers to section numbers pursuant to codification.~~

<del>Chapter 6: Public Water Supplies</del>	<del>35 Ill. Adm. Code</del>
<del>Part I: Introduction</del>	<del>Part 601</del>
<del>Rule 101</del>	<del>Section 601.101</del>
<del>Rule 102</del>	<del>Deleted</del>
<del>Rule 103</del>	<del>Deleted</del>
<del>Rule 104</del>	<del>Section 601.105</del>
<del>Rule 105</del>	<del>Section 601.104</del>
<del>Rule 106</del>	<del>Section 601.102</del>
<del>Rule 107</del>	<del>Section 601.103</del>



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(Source: Repealed at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

## SUBTITLE F

TITLE 35: ENVIRONMENTAL PROTECTION  
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CHAPTER I: POLLUTION CONTROL BOARDPART 601  
INTRODUCTION

## Section

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  - 2) Any substance used in treatment must not remain in the water at a concentration greater than that required by good practice. A substance that may have a deleterious physiological effect, or one for which physiological effects are not known, must not be used in a manner that would permit it to reach the consumer.
  - 3) Concentrations of constituents listed in the following chart should not be exceeded in the finished water.

<u>Contaminant</u>	<u>Secondary MCL</u>	<u>Noticeable Effects above the Secondary MCL</u>
Aluminum	0.2 mg/L	colored water
Chloride	250 mg/L	salty taste
Color	15 color units	visible tint
Copper	1 mg/L	metallic taste; blue-green staining
Fluoride	2.0 mg/L	tooth discoloration

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Foaming Agents	0.5 mg/L	frothy, cloudy; bitter taste; odor
Iron	0.3 mg/L	rusty color; sediment; metallic taste; reddish or orange staining
Manganese	0.05 mg/L	black to brown color; black staining; bitter metallic taste
Odor	3 T.O.N. (Threshold Odor Number)	"rotten-egg", musty or chemical smell
Silver	0.1 mg/L	skin discoloration; graying of the white part of the eye
Sulfate	250 mg/L	salty taste
Total Dissolved Solids	500 mg/L	hardness; deposits; colored water; staining; salty taste

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

## SUBTITLE F

**Section 601.102 Applicability and Organization of this Chapter**

- a) This Chapter applies to groundwater and public water supplies, except for those designated as non-community water supplies. A public water supply ends at each service connection.
- b) The rules in this Chapter are organized as follows:
  - 1) Part 601 contains definitions, analytical testing requirements, and incorporations by reference applicable to Parts 601, 602, 603, and 604.
  - 2) Part 602 contains permitting requirements and standards for community water supplies and technical, financial, and managerial capacity requirements for new community water supplies.
  - 3) Part 603 contains ownership and responsible personnel requirements for community water supplies.
  - 4) Part 604 contains design, operation, and maintenance criteria for community water supplies.
  - 5) Part 611 contains rules identical in substance to federal regulations promulgated by the United States Environmental Protection Agency (USEPA) under sections 1412(b), 1414(c), 1417(a), and 1445(a) of the Safe Drinking Water Act (SDWA) (42 U.S.C. 300g-1(b), 300g-3(c), 300g-6(a), and 300j-4(a)). Part 611 establishes primary drinking water rules and includes definitions and incorporations by reference applicable to Part 611.
  - 6) Part 615 contains requirements and standards for the protection of groundwater for certain types of existing facilities or units located wholly or partially within a setback zone or a regulated recharge area. Part 615 includes definitions and incorporations by reference applicable to Part 615.
  - 7) Part 616 contains requirements and standards for the protection of groundwater for certain types of new facilities or units located wholly or partially within a setback zone or a regulated recharge area. Part 616 includes definitions applicable to Part 616.
  - 8) Part 617 contains the requirements and standards for regulated recharge areas. Part 617 includes definitions and an incorporation by reference

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applicable to Part 617.

- 9) Part 618 contains requirements and standards for maximum setback zones. Part 618 includes definitions applicable to Part 618.
- 10) Part 620 contains the method of classification of groundwater, nondegradation provisions, the groundwater quality standards, and procedures and protocols for the management and protection of groundwater. Part 620 includes definitions and incorporations by reference applicable to Part 620.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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SUBTITLE F**Section 601.103 Severability**

If any provision of this Chapter or its application to any person or in any circumstance is adjudged invalid, that adjudication will not affect the validity of this Chapter as a whole or any portion not adjudged invalid.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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**Section 601.104 Analytical Testing**

- a) To determine compliance with the community water supplies rules in this Subtitle F, all sampling, monitoring, and testing must be made according to the methods described in 35 Ill. Adm. Code 611, the National Primary Drinking Water Regulations (40 CFR 141), or any other method specifically approved by the Agency.
- b) All analyses for substances other than those listed in 35 Ill. Adm. Code 611 must be performed by methods acceptable to the Agency.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)



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**Section 601.105 Definitions**

- a) For 35 Ill. Adm. Code 601, 602, 603, and 604, unless a different meaning of a word or term is clear from the context:

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Air Gap" means the unobstructed vertical distance through the free atmosphere between the water discharge point and the flood level rim of the receptacle.

"Atmospheric Vacuum Breaker" means a device designed to admit atmospheric pressure into a piping system whenever a vacuum is caused on the upstream side of the receptacle.

"Aquifer Property Data" means the porosity, hydraulic conductivity, transmissivity, and storage coefficient of an aquifer, head, and hydraulic gradient.

"Board" means the Illinois Pollution Control Board.

"Boil Order" means a notice to boil all drinking and culinary water for at least five minutes before use, issued by the proper authorities to the consumers of a public water supply affected, whenever the water being supplied may have become microbiologically contaminated.

"Certified Laboratory" means any laboratory certified under Section 4(o) of the Act or certified by USEPA for the specific parameters to be examined.

"Chlorine"

"Chlorine Demand" means the difference between the amount of chlorine applied to a given water and the amount of total available chlorine remaining at the end of the contact period. All test conditions (contact time, pH, and temperature) must be given, expressing the chlorine demand in a given water.

"Combined Chlorine" means the reaction product formed when chlorine has reacted with ammonia to form chloramines.

"Free Chlorine" means the residual chlorine existing in water as the sum of hypochlorous acid and hypochlorite ion.

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"Total Chlorine" means the sum of the free chlorine and the combined chlorine.

"Community Water Supply" or "CWS" means a public water supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents. [415 ILCS 5/3.145]

"Confined Geologic Formations" are geologic water-bearing formations protected against the entrance of contamination by other geologic formations.

"Conventional Filtration Treatment" means a series of processes, including coagulation, flocculation, sedimentation, and filtration resulting in substantial particulate removal.

"Cross-connection" means any physical connection or arrangement between two otherwise separate piping systems where flow from one system to the other is possible.

"CT" or "CT<sub>calc</sub>" is the product of "residual disinfectant concentration" (RDC or C) in mg/L determined before or at the first customer, and the corresponding "disinfectant contact time" (T) in minutes. If a supplier applies disinfectants at more than one point prior to the first customer, it must determine the CT of each disinfectant sequence before or at the first customer to determine the total percent inactivation or "total inactivation ratio". In determining the total inactivation ratio, the supplier must determine the RDC of each disinfection sequence and corresponding contact time before any subsequent disinfection application points.

"Disinfectant" means any agent, including chlorine, chlorine dioxide, chloramines, and ozone, added to water in any part of the treatment or distribution process, that is intended to kill or inactivate pathogenic microorganisms.

"DPD Method" means an analytical method for determining chlorine residual utilizing the reagent DPD (n-diethyl-p-phenylenediamine).

"Effective External Linkage" is the ability of a water system to communicate and exchange information with water customers, regulators, technical and financial assistance organizations, and other entities that routinely interact with the water system.

"Groundwater" means underground water which occurs within the saturated zone and geologic materials where the fluid pressure in the pore space is equal to or greater than atmospheric pressure. [415 ILCS 5/3.210]

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"Head" means the sum of the elevation head, pressure head, and velocity head at a given point in an aquifer.

"Hydraulic Conductivity" means the rate of flow in gallons per day (gpd) through a cross section of one square foot (ft<sup>2</sup>) under a unit hydraulic gradient (gpd/ft<sup>2</sup>).

"Hydraulic Gradient" means the rate of change of total head per unit distance of flow in a given direction.

"Infrastructure" means all mains, pipes, and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks, and appurtenances, collectively or severally, actually used or intended to be used to furnish water for drinking or general domestic use.

"Interconnection" means a physical connection between two or more community water supply systems.

"Maximum Average Daily Demand" or "Maximum Demand" means the highest average daily production over seven consecutive days.

"New Community Water Supply" means, beginning after October 1, 1999, all new community water supplies and those water supplies that expand their infrastructure to serve or intend to serve at least 15 service connections used by residents or regularly serve at least 25 residents. Any water supply that is not currently a community water supply but adds residents so that the total served is 25 residents or more without constructing additional infrastructure will become a community water supply but will not be required to demonstrate capacity under 35 Ill. Adm. Code 602.103 unless the community water supply is on restricted status as required by 35 Ill. Adm. Code 602.106.

"Non-community Water Supply" means *a public water supply that is not a community water supply.* [415 ILCS 5/3.145]

"Official Custodian" means *an individual who is an officer of an entity that is the owner of a community water supply and acts as the owner's agent in matters concerning the community water supply.* [415 ILCS 45/9.4]

"Porosity" means the percentage of the bulk volume of a rock or soil that is occupied by interstices, whether isolated or connected, as defined by the ratio of the pore volume to the total volume of a representative sample of the medium.

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*"Public Water Supply" means all mains, pipes, and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks, and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year. [415 ILCS 5/3.365]*

*"Responsible Operator in Charge" means an individual who is designated as a Responsible Operator in Charge of a community water supply under Section 1 of the Public Water Supply Operations Act [415 ILCS 45/1] and 35 Ill. Adm. Code 603. [415 ILCS 45/9.6]*

"Satellite Supply" means any community water supply that:

purchases all finished water from another community water supply;

does not provide any treatment other than chlorination or corrosion control; and

distributes finished water to the consumers.

"Sell Water" means to deliver or provide potable water, obtained from a public water supply subject to this Chapter, to the consumer, who is then individually or specifically billed for water service, or where any monetary assessment is levied or required and specifically used for water service. Water supply facilities owned or operated by political subdivisions, homeowners' associations, and not-for-profit associations, as well as privately owned utilities regulated by the Illinois Commerce Commission, are considered to sell water whether or not a charge is specifically made for water.

"SEP" means special exception permit.

"Service Connection" is the opening, including all fittings and appurtenances, at the water main through which water is supplied to the user through a water service line.

"Storage Coefficient" means the volume of water an aquifer releases from or takes into storage per unit surface area of the aquifer per unit change in head.

"Surface Water" means all tributary streams and drainage basins, including natural lakes and artificial reservoirs, which may affect a specific water supply above the point of water supply intake.

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"Surface Water Supply Source" means any surface water used as a water source for a public water supply.

"Supply" means a community water supply.

"Transmissivity" means the rate in gallons per minute (gpm), at which water is transmitted horizontally through a unit width by the total saturated thickness of an aquifer, in feet (ft), under a unit hydraulic gradient (gpm/ft).

"Water Main" means any pipe for distributing potable water that serves or is accessible to more than one property, dwelling, or rental unit and is exterior to buildings.

"Water Service Line" means any pipe from the water main or source of potable water supply that serves or is accessible to not more than one property, dwelling, or rental unit of the user.

"Well Hydraulics" means equations that are applied to understand the effect that a pumping well structure has on inducing the movement of water through permeable rock formations and certain aquifer properties to determine the rate of withdrawal of the well. This term is inclusive of equations that quantify wellbore skin effects/well loss.

"Wellhead Protection Area" or "WHPA" means the surface and subsurface recharge area surrounding a community water supply well or well field, delineated outside of any applicable setback zones (under Section 17.1 of the Act) established under Illinois' Wellhead Protection Program, through which contaminants are reasonably likely to move toward the well or well field.

"Wellhead Protection Measures" means management practices needed to mitigate existing and future threats to the water quality within the delineated WHPA.

"Wellhead Protection Program" means the Wellhead Protection Program for the State of Illinois, approved by USEPA under section 1428 of the SDWA (42 U.S.C. 300h-7).

- b) Terms not specifically defined in subsection (a), will have the meanings ascribed in 35 Ill. Adm. Code 611.
- c) Terms not specifically defined in subsection (a) or (b) will have the meanings specified in The Water Dictionary, incorporated by reference in Section 601.115.

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(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

## SUBTITLE F

**Section 601.115 Incorporations by Reference**

- a) Abbreviations and Short-name Listing of References. The following names and abbreviated names are used in this Chapter to refer to materials incorporated by reference:

"ANSI" means those standards published by American National Standards Institute.

"ASME" means the American Society of Mechanical Engineers.

"ASTM" means those standards published by ASTM International (formerly the American Society for Testing and Materials).

"AWWA" means those standards published by the American Water Works Association.

"NSF" means those standards published by NSF International (formerly the National Sanitation Foundation).

"Recommended Standards" means "Recommended Standards for Water Works – Policies for the Review and Approval of Plans and Specifications for Public Water Supplies".

- b) The Board incorporates the following materials by reference:

ASME. American Society of Mechanical Engineers, Two Park Avenue, New York NY 10016, (800)843-2763, [www.asme.org](http://www.asme.org).

ASME BPVC-VIII-1-2015, Boiler & Pressure Vessel Code (BPVC), Section VIII – Rules for Construction of Pressure Vessels, Division 1: Rules for Construction and Pressure Vessels, 2015.

ASTM. American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken PA 19428-2959, (610)832-9500.

ASTM C 76-16, Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe, approved November 1, 2016.

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ASTM C 361-16, Standard Specification for Reinforced Concrete Low-Head Pressure Pipe, approved September 1, 2016.

ASTM C 443-12, Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets, approved September 1, 2012.

ASTM D 1784-11, Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds, approved May 1, 2011.

ASTM D 1785-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120, approved August 1, 2015.

ASTM D 2241-09, Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series), approved December 1, 2009.

ASTM D 2464-15, Standard Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.

ASTM D 2466-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40, approved March 1, 2015.

ASTM D 2467-15, Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.

ASTM D 2564-12, Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems, approved August 1, 2012.

ASTM D 3139-11, Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals, February 1, 2011.

ASTM F 437-15, Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, approved March 1, 2015.



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ASTM F 438-15, Standard Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40, approved March 1, 2015.

ASTM F 439-13, Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80, approved August 1, 2013.

ASTM F 441/F 441M-15, Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80, approved August 1, 2015.

ASTM F 442/F 442M-13, Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR), approved June 1, 2013.

ASTM F 477-14, Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe, approved September 15, 2014.

ASTM F 493-14, Standard Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings, approved November 1, 2014.

ASTM F 1216-16, Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube, approved August 1, 2016.

AWWA. American Water Works Association et al., 6666 West Quincy Ave., Denver CO 80235, (303)794-7711.

AWWA A100-06, Water Wells, approved February 2, 2006, effective August 1, 2006.

AWWA B100-09, Granular Filter Material, approved January 25, 2009, effective March 1, 2010.

AWWA C151/A21.51-09, Ductile-Iron Pipe, Centrifugally Cast, approved January 25, 2009, effective September 1, 2009.

AWWA C200-12, Steel Water Pipe, 6 In. (150 mm) and Larger, approved June 10, 2012, effective September 1, 2012.

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AWWA C301-07, Prestressed Concrete Pressure Pipe, Steel-Cylinder Type, approved January 21, 2007, effective June 1, 2007.

AWWA C651-05, Disinfecting Water Mains, approved January 16, 2005, effective June 1, 2005.

AWWA C652-11, Disinfection of Water Storage Facilities, approved June 12, 2011, effective October 1, 2011.

AWWA C653-03, Disinfection of Water Treatment Plants, approved January 19, 2003, effective June 1, 2003.

AWWA C654-03, Disinfection of Wells, approved January 19, 2003, effective November 1, 2003.

AWWA C900-07 Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water Transmission and Distribution, 2007.

AWWA C905-10, Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 In. Through 48 In. (350 mm Through 1,200 mm), approved January 17, 2010, effective April 1, 2010.

AWWA C906-07 Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100 mm) Through 63 In. (1,600 mm) for Water Distribution and Transmission, 2007.

AWWA C907-12 Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water, Wastewater, and Reclaimed Water Service, effective March 1, 2012.

AWWA C909-09 Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 In. through 24 In. (100 mm through 600 mm) for Water, Wastewater, and Reclaimed Water Service, effective March 1, 2010.

AWWA D100-11, Welded Carbon Steel Tanks for Storage, approved January 23, 2011, effective July 1, 2011.

AWWA D103-09, Factory Coated Bolted Carbon Steel Tanks for Water Storage, approved January 25, 2009, effective November 1, 2009.

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AWWA D107-10, Composite Elevated Tanks for Water Storage, approved January 17, 2010, effective December 1, 2010.

"Improving Clearwell Design for CT Compliance" (1999).

"The Water Dictionary", 2<sup>nd</sup> Edition, 2010.

The Chlorine Institute, 1300 Wilson Boulevard, Suite 525, Arlington VA 22209, (703)894-4140, pubs@CL2.com.

Pamphlet 6: Piping Systems for Dry Chlorine, Edition 16, March 2013.

NSF International, 789 N. Dixboro Road, Ann Arbor MI 48105, (734)769-8010.

NSF/ANSI 14-2012 Plastics Piping System Components and Related Materials, March 2013.

NSF/ANSI 60-2014 Drinking Water Treatment Chemicals – Health Effects, April 2014.

NSF/ANSI 61-2014 Drinking Water System Components – Health Effects, March 2014.

NSF/ANSI 372-2011 Drinking Water System Components – Lead Content, July 2013.

"Recommended Standards for Water Works – Policies for the Review and Approval of Plans and Specifications for Public Water Supplies", 2012 Edition, Great Lakes – Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, Health Research Inc., Health Education Services Division, 821 Corning Tower, Albany NY 12237, (518) 431-1200.

"Standard Specifications for Water and Sewer Main Construction in Illinois", 7<sup>th</sup> Edition, 2014, Illinois Society of Professional Engineers, 100 East Washington Street, Springfield IL 62701, (217)544-7424.

USEPA, NSCEP. United States Environmental Protection Agency, National Service Center for Environmental Publications, P.O. Box 42419,

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Cincinnati, OH 45242-0419 (accessible online and available by download from <http://www.epa.gov/nscep/>).

Disinfection Profiling and Benchmarking Guidance Manual,  
August 1999, EPA 815-R-99-013.

Optimal Corrosion Control Treatment Evaluation Technical  
Recommendations for Primacy Agencies and Public Water  
Systems, March 2016, EPA 816-B-16-003.

- c) No later amendments to or editions of the materials listed in subsection (b) are incorporated.

(Source: Amended at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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SUBTITLE F

**Section 601.APPENDIX A References to Former Rules (Repealed)**

(Source: Repealed at 47 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)