

# OFFICE OF THE SECRETARY OF STATE

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June 19, 2015

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JUN 24 2015

POLLUTION CONTROL BOARD DON BROWN 100 W RANDOLPH ST STE 11-500 CHICAGO, IL 60601 STATE OF ILLINOIS
Pollution Control Board

#### Dear DON BROWN

Your rules Listed below met our codification standards and have been published in Volume 39, Issue 26 of the Illinois Register, dated 6/26/2015.

#### PROPOSED RULES

Primary Drinking Water Standards
35 Ill. Adm. Code 611
Point of Contact: Mike McCambridge

8691

If you have any questions, you may contact the Administrative Code Division at (217) 782 - 7017.



#### POLLUTION CONTROL BOARD

#### NOTICE OF PROPOSED AMENDMENTS

1) <u>Heading of the Part</u>: Primary Drinking Water Standards

2) <u>Code Citation</u>: 35 Ill. Adm. Code 611

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3) <u>Section Numbers</u>:

Proposed Action:

611.125

Amendment

611.858

**New Section** 

Pollution Control Board

- 4) <u>Statutory Authority</u>: Implementing and authorized by Sections 17, 27 and 28 of the Illinois Environmental Protection Act [415 ILCS 5/10 and 27].
- A Complete Description of the Subjects and Issues Involved This rule updates the current fluoride standard to reflect the recent recommendation by the United States Department of Health and Human Services. For a more detailed description, please see the Board's opinion and order of June 4, 2015 in R15-23 Amendment to Primary Drinking Water Standards: 35 Ill. Adm. Code 611.
- 6) <u>Published studies or reports, and sources of underlying data, used to compose this rulemaking:</u> None
- 7) Will these proposed amendments replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Do these proposed amendments contain incorporations by reference? No
- 10) Are there any other proposed amendments pending on this Part?
- 11) <u>Statement of Statewide Policy Objectives</u>: This proposed rule does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2014)]
- Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least forty-five (45) days after the date of publication in the Illinois Register. Public comments must be filed with the Clerk of the Board. Public comments should reference Docket R15-23 and be addressed to:

Clerk's Office Illinois Pollution Control Board

JUN 9 2015

SOS-CODE DIV.

#### POLLUTION CONTROL BOARD

#### NOTICE OF PROPOSED AMENDMENTS

JRTC 100 W. Randolph St., Suite 11-500 Chicago, IL 60601

Public comments may also be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at <a href="https://www.ipcb.state.il.us">www.ipcb.state.il.us</a>.

Interested persons may request copies of the Board's opinion and order in R15-23 by calling the Clerk's office at 312-814-3620, or may download copies from the Board's Web site at <a href="www.ipcb.state.il.us">www.ipcb.state.il.us</a>.

For more information, contact hearing officer Marie Tipsord at 312/814-4925 or by email at Marie. Tipsord@illinois.gov.

#### 13) <u>Initial Regulatory Flexibility Analysis:</u>

- A) Types of small businesses, small municipalities and not for profit corporations affected: Any business that operates a community water supply system including small municipalities that add fluoride to drinking water will realize a cost savings
- B) Reporting, bookkeeping or other procedures required for compliance: None
- C) Types of Professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized:

The full text of the Proposed Amendments begins on the next page:

#### POLLUTION CONTROL BOARD

#### NOTICE OF PROPOSED AMENDMENTS

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

#### PART 611 PRIMARY DRINKING WATER STANDARDS

#### SUBPART A: GENERAL

Section	
611.100	Purpose, Scope, and Applicability
611.101	Definitions
611.102	Incorporations by Reference
611.103	Severability
611.105	Electronic Reporting
611.107	Agency Inspection of PWS Facilities
611.108	Delegation to Local Government
611.109	Enforcement
611.110	Special Exception Permits
611.111	Relief Equivalent to SDWA Section 1415(a) Variances
611.112	Relief Equivalent to SDWA Section 1416 Exemptions
611.113	Alternative Treatment Techniques
611.114	Siting Requirements
611.115	Source Water Quantity
611.120	Effective Dates
611.121	Maximum Contaminant Levels and Finished Water Quality
611.125	Fluoridation Requirement
611.126	Prohibition on Use of Lead
611.130	Special Requirements for Certain Variances and Adjusted Standards
611.131	Relief Equivalent to SDWA Section 1415(e) Small System Variance
611.160	Composite Correction Program
611.161	Case-by-Case Reduced Subpart Y Monitoring for Wholesale and Consecutive
	Systems
	SUBPART B: FILTRATION AND DISINFECTION
Section	
611.201	Requiring a Demonstration
611.202	Procedures for Agency Determinations
611.211	Filtration Required
611.212	Groundwater under Direct Influence of Surface Water

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611.213	No Method of HPC Analysis
611.220	General Requirements
611.230	Filtration Effective Dates
611.231	Source Water Quality Conditions
611.232	Site-Specific Conditions
611.233	Treatment Technique Violations
611.240	Disinfection
611.241	Unfiltered PWSs
611.242	Filtered PWSs
611.250	Filtration
611.261	Unfiltered PWSs: Reporting and Recordkeeping
611.262	Filtered PWSs: Reporting and Recordkeeping
611.271	Protection during Repair Work
611.272	Disinfection Following Repair
611.276	Recycle Provisions
SU	JBPART C: USE OF NON-CENTRALIZED TREATMENT DEVICES
Section	
611.280	Point-of-Entry Devices
611.290	Use of Point-of-Use Devices or Bottled Water
	SUBPART D: TREATMENT TECHNIQUES
Section	
611.295	General Requirements
611.296	Acrylamide and Epichlorohydrin
611.297	Corrosion Control
SUBPART F:	MAXIMUM CONTAMINANT LEVELS (MCLs) AND MAXIMUM RESIDUAL DISINFECTANT LEVELS (MRDLs)
Section	
611.300	Old MCLs for Inorganic Chemical Contaminants
611.301	Revised MCLs for Inorganic Chemical Contaminants
611.310	State-Only Maximum Contaminant Levels (MCLs) for Organic Chemical
	Contaminants
611.311	Revised MCLs for Organic Chemical Contaminants
611.312	Maximum Contaminant Levels (MCLs) for Disinfection Byproducts (DBPs)
611.313	Maximum Residual Disinfectant Levels (MRDLs)

#### POLLUTION CONTROL BOARD

# NOTICE OF PROPOSED AMENDMENTS

611.320	Turbidity (Repealed)
611.325	Microbiological Contaminants
611.330	Maximum Contaminant Levels for Radionuclides
611.331	Beta Particle and Photon Radioactivity (Repealed)
	SUBPART G: LEAD AND COPPER
Section	
611.350	General Requirements
611.351	Applicability of Corrosion Control
611.352	Corrosion Control Treatment
611.353	Source Water Treatment
611.354	Lead Service Line Replacement
611.355	Public Education and Supplemental Monitoring
611.356	Tap Water Monitoring for Lead and Copper
611.357	Monitoring for Water Quality Parameters
611.358	Monitoring for Lead and Copper in Source Water
611.359	Analytical Methods
611.360	Reporting
611.361	Recordkeeping

# SUBPART I: DISINFECTANT RESIDUALS, DISINFECTION BYPRODUCTS, AND DISINFECTION BYPRODUCT PRECURSORS

Section	
611.380	General Requirements
611.381	Analytical Requirements
611.382	Monitoring Requirements
611.383	Compliance Requirements
611.384	Reporting and Recordkeeping Requirements
611.385	Treatment Technique for Control of Disinfection Byproduct (DBP) Precursors

# SUBPART K: GENERAL MONITORING AND ANALYTICAL REQUIREMENTS

Section	
611.480	Alternative Analytical Techniques
611.490	Certified Laboratories
611.491	Laboratory Testing Equipment
611.500	Consecutive PWSs
611.510	Special Monitoring for Unregulated Contaminants (Repealed)

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#### NOTICE OF PROPOSED AMENDMENTS

## SUBPART L: MICROBIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section	
611.521	Routine Coliform Monitoring
611.522	Repeat Coliform Monitoring
611.523	Invalidation of Total Coliform Samples
611.524	Sanitary Surveys
611.525	Fecal Coliform and E. Coli Testing
611.526	Analytical Methodology
611.527	Response to Violation
611.528	Transition from Subpart L to Subpart AA Requirements
611.531	Analytical Requirements
611.532	Unfiltered PWSs
611.533	Filtered PWSs

## SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

#### Section

611.560 Turbidity

## SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section	
611.591	Violation of a State MCL
611.592	Frequency of State Monitoring
611.600	Applicability
611.601	Monitoring Frequency
611.602	Asbestos Monitoring Frequency
611.603	Inorganic Monitoring Frequency
611.604	Nitrate Monitoring
611.605	Nitrite Monitoring
611.606	Confirmation Samples
611.607	More Frequent Monitoring and Confirmation Sampling
611.608	Additional Optional Monitoring
611.609	Determining Compliance
611.610	Inorganic Monitoring Times
611.611	Inorganic Analysis
611.612	Monitoring Requirements for Old Inorganic MCLs
611.630	Special Monitoring for Sodium
611.631	Special Monitoring for Inorganic Chemicals (Repealed)

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## NOTICE OF PROPOSED AMENDMENTS

#### SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

SODIAK	1 O. OKOANIC MONTOKINO AND ANALT HEAL REQUIREMENTS
Section	
611.640 I	Definitions
611.641	Old MCLs
611.645	Analytical Methods for Organic Chemical Contaminants
611.646 I	Phase I, Phase II, and Phase V Volatile Organic Contaminants
	Sampling for Phase I Volatile Organic Contaminants (Repealed)
611.648 I	Phase II, Phase IIB, and Phase V Synthetic Organic Contaminants
611.650 I	Monitoring for 36 Contaminants (Repealed)
	Analytical Methods for 36 Contaminants (Repealed)
611.658	Special Monitoring for Organic Chemicals (Repealed)
SUBPART P:	THM MONITORING AND ANALYTICAL REQUIREMENTS (REPEALED)
Section	
611.680	Sampling, Analytical, and other Requirements (Repealed)
611.683	Reduced Monitoring Frequency (Repealed)
611.684	Averaging (Repealed)
611.685	Analytical Methods (Repealed)
	Modification to System (Repealed)
	Sampling for THM Potential (Repealed)
611.688	Applicability Dates (Repealed)
SUBPART Q	: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS
Section	
	Analytical Methods
	Gross Alpha
611.732 I	Beta Particle and Photon Radioactivity
611.733	General Monitoring and Compliance Requirements
SUBPART	R: ENHANCED FILTRATION AND DISINFECTION: SYSTEMS THAT SERVE 10,000 OR MORE PEOPLE
Section	

Section	
611.740	General Requirements
611.741	Standards for Avoiding Filtration
611.742	Disinfection Profiling and Benchmarking
611.743	Filtration

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611.744 611.745	Filtration Sampling Requirements Reporting and Recordkeeping Requirements
	SUBPART S: GROUNDWATER RULE
Section 611.800 611.801 611.802 611.803 611.804 611.805	General Requirements and Applicability Sanitary Surveys for GWS Suppliers Groundwater Source Microbial Monitoring and Analytical Methods Treatment Technique Requirements for GWS Suppliers Treatment Technique Violations for GWS Suppliers Reporting and Recordkeeping for GWS Suppliers
	SUBPART T: REPORTING AND RECORDKEEPING
Section 611.830 611.831 611.832 611.833 611.840 611.851 611.852 611.853 611.854 611.855 611.856 611.858 611.858	Applicability Monthly Operating Report Notice by Agency (Repealed) Cross Connection Reporting Reporting Reporting MCL, MRDL, and other Violations (Repealed) Reporting other Violations (Repealed) Notice to New Billing Units (Repealed) General Content of Public Notice (Repealed) Mandatory Health Effects Language (Repealed) Fluoride Notice (Repealed) Fluoride Secondary Standard (Repealed) Record Maintenance List of 36 Contaminants (Repealed)
	SUBPART U: CONSUMER CONFIDENCE REPORTS
Section 611.881 611.882 611.883 611.884 611.885	Purpose and Applicability Compliance Dates Content of the Reports Required Additional Health Information Report Delivery and Recordkeeping

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#### SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

Section	
611.901	General Public Notification Requirements
611.902	Tier 1 Public Notice: Form, Manner, and Frequency of Notice
611.903	Tier 2 Public Notice: Form, Manner, and Frequency of Notice
611.904	Tier 3 Public Notice: Form, Manner, and Frequency of Notice
611.905	Content of the Public Notice
611.906	Notice to New Billing Units or New Customers
611.907	Special Notice of the Availability of Unregulated Contaminant Monitoring
	Results
611.908	Special Notice for Exceedence of the Fluoride Secondary Standard
611.909	Special Notice for Nitrate Exceedences above the MCL by a Non-Community
	Water System
611.910	Notice by the Agency on Behalf of a PWS
611.911	Special Notice for Cryptosporidium
	SUBPART W: INITIAL DISTRIBUTION SYSTEM EVALUATIONS
Section	
611.920	General Paguiraments
611.921	General Requirements Standard Monitoring
611.922	System-Specific Studies
611.923	40/30 Certification
611.924	Very Small System Waivers
611.925	Subpart Y Compliance Monitoring Location Recommendations
SUBPAI	RT X: ENHANCED FILTRATION AND DISINFECTION—SYSTEMS SERVING FEWER THAN 10,000 PEOPLE
Section	FEWER THAN 10,000 FEOFLE
611.950	General Requirements
611.951	Finished Water Reservoirs
611.952	Additional Watershed Control Requirements for Unfiltered Systems
611.953	Disinfection Profile
611.954	Disinfection Frome Disinfection Benchmark
611.955	Combined Filter Effluent Turbidity Limits
611.956	Individual Filter Turbidity Requirements
611.957	Reporting and Recordkeeping Requirements
011.731	reporting and recordaceching requirements

SUBPART Y: STAGE 2 DISINFECTION BYPRODUCTS REQUIREMENTS

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Section	
611.970	General Requirements
611.971	Routine Monitoring
611.972	Subpart Y Monitoring Plan
611.973	Reduced Monitoring
611.974	Additional Requirements for Consecutive Systems
611.975	Conditions Requiring Increased Monitoring
611.976	Operational Evaluation Levels
611.977	Requirements for Remaining on Reduced TTHM and HAA5 Monitoring Based
	on Subpart I Results
611.978	Requirements for Remaining on Increased TTHM and HAA5 Monitoring Based on Subpart I Results
611.979	Reporting and Recordkeeping Requirements
	SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

Section	
611.1000	General Requirements
611.1001	Source Water Monitoring Requirements: Source Water Monitoring
611.1002	Source Water Monitoring Requirements: Sampling Schedules
611.1003	Source Water Monitoring Requirements: Sampling Locations
611.1004	Source Water Monitoring Requirements: Analytical Methods
611.1005	Source Water Monitoring Requirements: Approved Laboratories
611.1006	Source Water Monitoring Requirements: Reporting Source Water Monitoring
	Results
611.1007	Source Water Monitoring Requirements: Grandfathering Previously Collected
	Data
611.1008	Disinfection Profiling and Benchmarking Requirements: Requirements When
	Making a Significant Change in Disinfection Practice
611.1009	Disinfection Profiling and Benchmarking Requirements: Developing the
	Disinfection Profile and Benchmark
611.1010	Treatment Technique Requirements: Bin Classification for Filtered Systems
611.1011	Treatment Technique Requirements: Filtered System Additional
	Cryptosporidium Treatment Requirements
611.1012	Treatment Technique Requirements: Unfiltered System Cryptosporidium
	Treatment Requirements
611.1013	Treatment Technique Requirements: Schedule for Compliance with
	Cryptosporidium Treatment Requirements
611.1014	Treatment Technique Requirements: Requirements for Uncovered Finished
	Water Storage Facilities

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611.1015	Requirements for Microbial Toolbox Components: Microbial Toolbox Options for Meeting Cryptosporidium Treatment Requirements
611.1016	Requirements for Microbial Toolbox Components: Source Toolbox Components
611.1017	Requirements for Microbial Toolbox Components: Pre-Filtration Treatment Toolbox Components
611.1018	Requirements for Microbial Toolbox Components: Treatment Performance Toolbox Components
611.1019	Requirements for Microbial Toolbox Components: Additional Filtration Toolbox Components
611.1020	Requirements for Microbial Toolbox Components: Inactivation Toolbox Components
611.1021	Reporting and Recordkeeping Requirements: Reporting Requirements
611.1022	Reporting and Recordkeeping Requirements: Recordkeeping Requirements
611.1023	Requirements to Respond to Significant Deficiencies Identified in Sanitary Surveys Performed by USEPA or the Agency
	SUBPART AA: REVISED TOTAL COLIFORM RULE
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	Section	
	611.1051	General
	611.1052	Analytical Methods and Laboratory Certification
	611.1053	General Monitoring Requirements for all PWSs
	611.1054	Routine Monitoring Requirements for Non-CWSs That Serve 1,000 or Fewer
		People Using Only Groundwater
	611.1055	Routine Monitoring Requirements for CWSs That Serve 1,000 or Fewer People
		Using Only Groundwater
	611.1056	Routine Monitoring Requirements for Subpart B Systems That Serve 1,000 or
		Fewer People
	611.1057	Routine Monitoring Requirements for PWSs That Serve More Than 1,000 People
	611.1058	Repeat Monitoring and E. coli Requirements
	611.1059	Coliform Treatment Technique Triggers and Assessment Requirements for
		Protection Against Potential Fecal Contamination
	611.1060	Violations
	611.1061	Reporting and Recordkeeping
	611.APPEND	X A Regulated Contaminants
	611.APPEND	X B Percent Inactivation of G. Lamblia Cysts
611.APPENDIX C 611.APPENDIX D		X C Common Names of Organic Chemicals
		XD Defined Substrate Method for the Simultaneous Detection of Total
		Coliforms and Eschericia Coli from Drinking Water

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611.APPENDIX E	Mandatory Lead Public Education Information for Community Water Systems
	Mandatory Lead Public Education Information for Non-Transient Non-Community Water Systems
	NPDWR Violations and Situations Requiring Public Notice
	Standard Health Effects Language for Public Notification
611.APPENDIX I	Acronyms Used in Public Notification Regulation
611.TABLE A	Total Coliform Monitoring Frequency
611.TABLE B	Fecal or Total Coliform Density Measurements
611.TABLE C	Frequency of RDC Measurement
611.TABLE D	Number of Lead and Copper Monitoring Sites
611.TABLE E	Lead and Copper Monitoring Start Dates
611.TABLE F	Number of Water Quality Parameter Sampling Sites
611.TABLE G	Summary of Section 611.357 Monitoring Requirements for Water
	Quality Parameters
611.TABLE H	CT Values (mg·min/ $\ell$ ) for Cryptosporidium Inactivation by
	Chlorine Dioxide
611.TABLE I	CT Values (mg·min/ $\ell$ ) for Cryptosporidium Inactivation by Ozone
611.TABLE J	UV Dose Table for Cryptosporidium, Giardia lamblia, and Virus
	Inactivation Credit
611.TABLE Z	Federal Effective Dates

AUTHORITY: Implementing Sections 7.2, 17, and 17.5 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/7.2, 17, 17.5, and 27].

SOURCE: Adopted in R88-26 at 14 Ill. Reg. 16517, effective September 20, 1990; amended in R90-21 at 14 Ill. Reg. 20448, effective December 11, 1990; amended in R90-13 at 15 Ill. Reg. 1562, effective January 22, 1991; amended in R91-3 at 16 Ill. Reg. 19010, effective December 1, 1992; amended in R92-3 at 17 Ill. Reg. 7796, effective May 18, 1993; amended in R93-1 at 17 Ill. Reg. 12650, effective July 23, 1993; amended in R94-4 at 18 Ill. Reg. 12291, effective July 28, 1994; amended in R94-23 at 19 Ill. Reg. 8613, effective June 20, 1995; amended in R95-17 at 20 Ill. Reg. 14493, effective October 22, 1996; amended in R98-2 at 22 Ill. Reg. 5020, effective March 5, 1998; amended in R99-6 at 23 Ill. Reg. 2756, effective February 17, 1999; amended in R99-12 at 23 Ill. Reg. 10348, effective August 11, 1999; amended in R00-8 at 23 Ill. Reg. 14715, effective December 8, 1999; amended in R00-10 at 24 Ill. Reg. 14226, effective September 11, 2000; amended in R01-7 at 25 Ill. Reg. 1329, effective January 11, 2001; amended in R01-20 at 25 Ill. Reg. 13611, effective October 9, 2001; amended in R02-5 at 26 Ill. Reg. 3522, effective February 22, 2002; amended in R03-4 at 27 Ill. Reg. 1183, effective January 10, 2003; amended in R03-15 at 27 Ill. Reg. 16447, effective October 10, 2003; amended in R04-3 at 28 Ill. Reg. 5269, effective March 10, 2004; amended in R04-13 at 28 Ill. Reg. 12666, effective August 26,

## POLLUTION CONTROL BOARD

2004; amended in R05-6 at 29 III. Reg. 2287, effective January 28, 2005; amended in R06-15 at 30 III. Reg. 17004, effective October 13, 2006; amended in R07-2/R07-11 at 31 III. Reg. 11757, effective July 27, 2007; amended in R08-7/R08-13 at 33 III. Reg. 633, effective December 30, 2008; amended in R10-1/R10-17/R11-6 at 34 III. Reg. 19848, effective December 7, 2010; amended in R12-4 at 36 III. Reg. 36 III. Reg. 7110, effective April 25, 2012; amended in R13-2 at 37 III. Reg. 1978, effective February 4, 2013; amended in R14-8 at 38 III. Reg. 3608, effective January 27, 2014; amended in R14-9 at 38 III. Reg. 9792, effective April 21, 2014; amended in R15-23 at 39 III. Reg
Section 611.125 Fluoridation Requirement
All CWSs that are required to add fluoride to the water must maintain a fluoride ion concentration, reported as F, of $0.7  0.9$ to $1.2  \text{mg/} \ell \underline{\text{L}}$ in its distribution system, as required by Section 7a of the Public Water supply regulation Act[415 II.CS 40/7a].
BOARD NOTE: This is an additional State requirement.
(Source: Amended at 39 Ill. Reg, effective)
SUBPART T: REPORTING AND RECORDKEEPING
Section 611.858 Fluoride Secondary Standard
The secondary standard for fluoride is 2.0 mg/L.
BOARD NOTE: Derived from 40 CFR 143.3 (2014).
(Source: Section repealed at 25 Ill. Reg. 1329, effective January 11, 2001, new section added at 39 Ill. Reg, effective)