

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Air Quality Standards
- 2) Code Citation: 35 Ill. Adm. Code 243
- 3)

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
243.108	Amendment
243.120	Amendment
243.122	Amendment
243.125	Amendment
243.126	Amendment
- 4) Statutory Authority: 415 ILCS 5/7.2, 10, and 27
- 5) A Complete Description of the Subjects and Issues Involved: The following briefly describes the subjects and issues involved in this rulemaking. A comprehensive description is contained in the Board's opinion and order of November 1, 2018, proposing amendment in docket R19-6 for public comment, which opinion and order is available from the address below. As is explained in that opinion, the Board will receive public comment on the proposed amendment for 45 days from the date it appears in the *Illinois Register* before proceeding to adopt amendment based on this proposal.

The R19-6 proceeding relates to the Illinois ambient air quality requirements in 35 Ill. Adm. Code 243 of the Illinois air pollution control rules. This amendment would update the Illinois ambient air quality requirements to correspond with amendments to the federal National Ambient Air Quality Standards (NAAQSs) that the United States Environmental Protection Agency (USEPA) adopted during the period January 1, 2018 through June 30, 2018. Board action now will obviate action in a subsequent rulemaking.

The Federal NAAQS are codified at 40 C.F.R. 50. During this period, USEPA amended implementation of its NAAQSs as follows:

February 13, 2018
(83 Fed. Reg. 6174)

USEPA designated one new federal reference method (FRM) for nitrogen dioxide (NO₂), in ambient air. Updating the incorporation by reference to the updated June 15, 2018 List of Designated Reference and Equivalent Methods will obviate separate action on the USEPA action on February 13, 2018.

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STATE OF ILLINOIS
Pollution Control Board

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March 28, 2018 (83 Fed. Reg. 13198)	USEPA redesignated the Chicago and Granite City areas to attainment for the 2008 NAAQS for lead in ambient air. USEPA further approved the Illinois State Implementation Plan (SIP) revisions for emissions inventories and regulatory emissions limits and controls in the areas. The effect will be the revocation of the 1978 NAAQS for lead for the areas effective March 28, 2019.
June 1, 2018 (83 Fed. Reg. 25451)	USEPA designated one new FRM for nitrogen dioxide (NO ₂) in ambient air. Updating the incorporation by reference to the updated June 15, 2018 List of Designated Reference and Equivalent Methods will obviate separate action on the USEPA action on June 1, 2018.
December 15, 2017	USEPA issued an updated version of its List of Designated Reference and Equivalent Methods. The updated version includes the FRMs designated on February 13, 2018 and June 1, 2018. The Board must update the incorporation by reference in the Illinois rules to this version of the List. Doing so will obviate separate actions on the February 13, 2018 and June 1, 2018 methods designations.

The Board deviated from the literal text of the USEPA amendment by using incorporation by reference rather than listing the designated methods. The Board further updated incorporations by reference to Code of Federal Regulations provisions to the latest version available.

Tables appear in a document entitled "Identical-in-Substance Rulemaking Addendum (Proposed)" (IIS-RA(P)) that the Board added to docket R19-6 which list the limited revisions that are not based on current federal amendments. The tables contain the deviation from the literal text of the federal actions underlying this amendment, as well as updates to incorporations by reference to the Code of Federal Regulations that the Board made in the base text involved. Persons interested in the details of those corrections and amendments should refer to the IIS-RA(P) in docket R19-6.

Section 10(H) of the Environmental Protection Act [415 ILCS 5/10(H)] provides that Section 5-35 of the Administrative Procedure Act [5 ILCS 100/5-35] does not apply to

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this rulemaking. Because this rulemaking is not subject to Section 5-35 of the APA, it is not subject to First Notice or to Second Notice review by the Joint Committee on Administrative Rules (JCAR).

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Does this rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, Place and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comment on this proposal for a period of 45 days after the date of this publication. Comments should reference docket R19-6 and be addressed to:

Don A. Brown, Clerk
Illinois Pollution Control Board
State of Illinois Center, Suite 11-500
100 W. Randolph St.
Chicago IL 60601

The Board will conduct one public hearing on the proposed amendments because it will ultimately result in submission to the United States Environmental Protection Agency of an amendment to the State implementation plan (SIP). Section 110(a)(2) of the Federal Clean Air Act (42 U.S.C. § 7410(a)(2) (2014)) requires reasonable notice and hearing before a state undertakes an amendment to the SIP. The public hearing will occur by videoconference at the following time and between the following locations:

11:30 a.m., January 10, 2018
Room 11-512
James R. Thompson Center

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100 W. Randolph St.
Chicago IL 60601

and

Sangamo Building
Illinois Pollution Control Board Hearing Room
1021 North Grand Avenue
Springfield

Comments should reference docket R19-6 and be addressed to:

Don A. Brown, Clerk
Illinois Pollution Control Board
State of Illinois Center, Suite 11-500
100 W. Randolph St.
Chicago IL 60601

Please direct inquiries to the following person and reference docket R19-6:

Michael J. McCambridge
Staff Attorney
Illinois Pollution Control Board
100 W. Randolph 11-500
Chicago IL 60601

312/814-6924
email: michael.mccambridge@illinois.gov

Request copies of the Board's opinion and order at 312/814-3620, or download a copy from the Board's Website at <http://www.ipcb.state.il.us>.

13) Initial Regulatory Flexibility Analysis:

- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: This rulemaking may affect those small businesses, small municipalities, and not-for-profit corporations that emit pollutants that could potentially affect ambient air quality in any area of Illinois. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].

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- B) Reporting, bookkeeping or other procedures required for compliance: The existing rules and proposed amendments require extensive reporting, bookkeeping and other procedures, including emissions monitoring, annual reports, and maintenance of operating records. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- C) Types of professional skills necessary for compliance: Compliance with the existing rules and proposed amendments may require the services of an attorney, certified public accountant, chemist, and registered professional engineer. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 14) Regulatory Agenda on which this rulemaking was summarized: July 2018

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

1 TITLE 35: ENVIRONMENTAL PROTECTION
2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER I: AIR QUALITY STANDARDS AND EPISODES

5
6 PART 243
7 AIR QUALITY STANDARDS

8
9 SUBPART A: GENERAL PROVISIONS

10
11 Section

- 12 243.101 Definitions
13 243.102 Scope
14 243.103 Applicability
15 243.104 Nondegradation (Repealed)
16 243.105 Air Quality Monitoring Data Influenced by Exceptional Events
17 243.106 Monitoring (Repealed)
18 243.107 Reference Conditions
19 243.108 Incorporations by Reference

20
21 SUBPART B: STANDARDS AND MEASUREMENT METHODS

22
23 Section

- 24 243.120 PM₁₀ and PM_{2.5}
25 243.121 Particulates (Repealed)
26 243.122 Sulfur Oxides (Sulfur Dioxide)
27 243.123 Carbon Monoxide
28 243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)
29 243.125 Ozone
30 243.126 Lead

- 31
32 243.APPENDIX A Rule into Section Table (Repealed)
33 243.APPENDIX B Section into Rule Table (Repealed)
34 243.APPENDIX C Past Compliance Dates (Repealed)
35 243.TABLE A Schedule for Flagging and Documentation Submission for Data Influenced
36 by Exceptional Events for Use in Initial Area Designations (Repealed)

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38 AUTHORITY: Implementing Sections 7.2 and 10 and authorized by Section 27 of the
39 Environmental Protection Act [415 ILCS 5/7.2, 10, and 27].

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41 SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23,
42 filed and effective April 14, 1972; amended in R80-11, at 6 Ill. Reg. 5804, effective April 22,
43 1982; amended in R82-12, at 7 Ill. Reg. 9906, effective August 18, 1983; codified at 7 Ill. Reg.

44 13630; amended in R91-35 at 16 Ill. Reg. 8185, effective May 15, 1992; amended in R09-19 at
45 35 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 Ill. Reg. 12882,
46 effective July 29, 2013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 27, 2013;
47 amended in R14-16 at 38 Ill. Reg. 12900, effective June 9, 2014; amended in R15-4 at 39 Ill.
48 Reg. 5434, effective March 24, 2015; amended in R16-2 at 40 Ill. Reg. 4906, effective March 3,
49 2016; amended in R17-1 at 41 Ill. Reg. 1121, effective January 23, 2017; amended in R17-10 at
50 41 Ill. Reg. 13413, effective October 23, 2017; amended in R18-15 at 42 Ill. Reg. 9308, effective
51 May 29, 2018; amended in R19-6 at 43 Ill. Reg. _____, effective _____.

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53 **SUBPART A: GENERAL PROVISIONS**

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55 **Section 243.108 Incorporations by Reference**

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57 The following materials are incorporated by reference. These incorporations do not include any
58 later amendments or editions:

59
60 Government Printing Office (GPO), 732 Capitol Street NW, Washington, DC
61 20401 (telephone: 202-512-1800 or 866-512-1800; website: www.gpo.gov).
62 The following documents incorporated by reference are available from this
63 source:

64
65 Appendix A-1 to 40 CFR 50 ~~(2017)~~ (2018) (Reference Measurement
66 Principle and Calibration Procedure for the Measurement of Sulfur
67 Dioxide in the Atmosphere (Ultraviolet Fluorescence Method)),
68 referenced in Section 243.122.

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70 Appendix A-2 to 40 CFR 50 ~~(2017)~~ (2018) (Reference Method for the
71 Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline
72 Method)), referenced in Section 243.122.

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74 Appendix B to 40 CFR 50 ~~(2017)~~ (2018) (Reference Method for the
75 Determination of Suspended Particulate Matter in the Atmosphere (High-
76 Volume Method)), referenced in appendix G to 40 CFR 50 (see below).

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78 Appendix C to 40 CFR 50 ~~(2017)~~ (2018) (Reference Measurement
79 Principle and Calibration Procedure for the Measurement of Carbon
80 Monoxide in the Atmosphere (Non-Dispersive Infrared Photometry)),
81 referenced in Section 243.123.

82
83 Appendix D to 40 CFR 50 ~~(2017)~~ (2018) (Reference Measurement
84 Principle and Calibration Procedure for the Measurement of Ozone in the
85 Atmosphere), referenced in Section 243.125.
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87 Appendix F to 40 CFR 50 (2018)~~(2017)~~ (Reference Measurement
88 Principle and Calibration Procedure for the Measurement of Nitrogen
89 Dioxide in the Atmosphere (Gas Phase Chemiluminescence)), referenced
90 in Section 243.124.
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92 Appendix G to 40 CFR 50 (2018)~~(2017)~~ (Reference Method for the
93 Determination of Lead in Suspended Particulate Matter Collected from
94 Ambient Air), referenced in Section 243.126.
95
96 Appendix H to 40 CFR 50 (2018)~~(2017)~~ (Interpretation of the 1-Hour
97 Primary and Secondary National Ambient Air Quality Standards for
98 Ozone), referenced in Section 243.125.
99
100 Appendix I to 40 CFR 50 (2018)~~(2017)~~ (Interpretation of the 8-Hour
101 Primary and Secondary National Ambient Air Quality Standards for
102 Ozone), referenced in Section 243.125.
103
104 Appendix J to 40 CFR 50 (2018)~~(2017)~~ (Reference Method for the
105 Determination of Particulate Matter as PM₁₀ in the Atmosphere),
106 referenced in Section 243.120.
107
108 Appendix K to 40 CFR 50 (2018)~~(2017)~~ (Interpretation of the Primary and
109 Secondary National Ambient Air Quality Standards for Particulate
110 Matter), referenced in Section 243.120.
111
112 Appendix L to 40 CFR 50 (2018)~~(2017)~~ (Reference Method for the
113 Determination of Fine Particulate Matter as PM_{2.5} in the Atmosphere),
114 referenced in Section 243.120.
115
116 Appendix N to 40 CFR 50 (2018)~~(2017)~~, ~~as amended at 82 Fed. Reg.~~
117 ~~14325 (Mar. 20, 2017)~~ (Interpretation of the Primary and Secondary
118 National Ambient Air Quality Standards for Particulate Matter),
119 referenced in Section 243.120.
120
121 Appendix O to 40 CFR 50 (2018)~~(2017)~~ (Reference Method for the
122 Determination of Coarse Particulate Matter as PM_{10-2.5} in the
123 Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in
124 federally required monitoring by the NCore system pursuant to 40 CFR
125 58.
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127 Appendix P to 40 CFR 50 (2018)~~(2017)~~ (Interpretation of the Primary and
128 Secondary National Ambient Air Quality Standards for Ozone),
129 referenced in Section 243.125.

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Appendix Q to 40 CFR 50 ~~(2017)~~ (2018) (Reference Method for the Determination of Lead in Particulate Matter as PM₁₀ Collected from Ambient Air), referenced in appendix R to 40 CFR 50.

Appendix R to 40 CFR 50 ~~(2017)~~ (2018) (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.

Appendix S to 40 CFR 50 ~~(2017)~~ (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen Dioxide)), referenced in Section 243.124.

Appendix T to 40 CFR 50 ~~(2017)~~ (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)), referenced in Section 243.122.

Appendix U to 40 CFR 50 ~~(2017)~~ (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Clean Air Act, 42 USC 7401 et seq. (2016) (for definitions of terms only), referenced in Section 243.102.

BOARD NOTE: Segments of the Code of Federal Regulations and the United States Code are available for free download as PDF documents from the GPO FDsys website: <http://www.gpo.gov/fdsys/>.

USEPA, National Exposure Research Laboratory, Human Exposure & Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC 27711. The following documents incorporated by reference are available from this source:

"List of Designated Reference and Equivalent Methods" (~~December 15, 2017~~ June 15, 2018) (referred to as the "List of Designated Methods" and referenced in Sections 243.101, 243.120, 243.122, 243.123, 243.124, 243.125, and 243.126.

BOARD NOTE: The List of Designated Methods is available for free download as a PDF document from the USEPA, Technology Transfer, Ambient Monitoring Technology Information Center website: <http://www.epa.gov/ttn/amtic/criteria.html>.

(Source: Amended at 43 Ill. Reg. _____, effective _____)

SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section 243.120 PM₁₀ and PM_{2.5}

a) 1987 Primary and Secondary 24-Hour NAAQS for PM₁₀:

- 1) The level of the 1987 primary and secondary 24-hour NAAQS for PM₁₀ is 150 µg/m³, 24-hour average concentration. The 1987 primary and secondary NAAQS for PM₁₀ is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³, as determined in accordance with appendix K to 40 CFR 50, incorporated by reference in Section 243.108, is equal to or less than one.
- 2) This subsection (a)(2) corresponds with 40 CFR 50.6(b), a provision marked "reserved" by USEPA. This statement maintains structural consistency with the corresponding federal regulation.
- 3) For the purpose of determining attainment of the 1987 primary and secondary 24-hour NAAQS for PM₁₀, particulate matter must be measured in the ambient air as PM₁₀ by a method that fulfills either of the following requirements:
 - A) An FRM based on appendix J to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108; or
 - B) An FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.6-(2016). USEPA adopted 1997 primary NAAQS for PM₁₀ at 62 Fed. Reg. 38652 (July 18, 1997). As a result of a judicial vacatur, USEPA later removed the transitional provision relative to the 1987 NAAQS at 65 Fed. Reg. 80776 (Dec. 22, 2000) and the 1997 NAAQS at 69 Fed. Reg. 45595 (July 30, 2004). Thus, the 1987 primary and secondary NAAQS for PM₁₀ are included in this subsection (a).

b) 1997 Primary and Secondary Annual Average and 24-Hour NAAQS for PM_{2.5}:

- 1) The 1997 primary and secondary annual average NAAQS for PM_{2.5} is 15.0 µg/m³, annual arithmetic mean concentration, and the 1997 primary and secondary 24-hour NAAQS for PM_{2.5} is 65 µg/m³, 24-hour average

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concentration, measured in the ambient air as PM_{2.5} by a method that fulfills either of the following requirements:

A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or

B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 1997 primary and secondary annual average NAAQS for PM_{2.5} is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 15.0 µg/m³.

3) The 1997 primary and secondary 24-hour NAAQS for PM_{2.5} is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 65 µg/m³.

4) The primary annual PM_{2.5} NAAQS in this subsection (b) does not apply in any area of Illinois except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County. The primary NAAQS for PM_{2.5} in this subsection (b) will no longer apply in any area of Illinois after USEPA has redesignated that area as attainment for that standard. The 1997 secondary annual NAAQS for PM_{2.5} and the 1997 24-hour PM_{2.5} NAAQS in this subsection (b) remain applicable.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.7-(2016) and 40 CFR 50.13(d), as added at 82 Fed. Reg. 14325 (Mar. 20, 2017). The Board added the revocation clause of 40 CFR 50.13(d) as both subsections (b)(4) and (c)(4), even though USEPA did not add the text to corresponding 40 CFR 50.7.

c) 2006 Primary and Secondary Annual Average and 24-Hour NAAQS for PM_{2.5}:

1) The 2006 primary and secondary annual average NAAQS for PM_{2.5} is 15.0 µg/m³, annual arithmetic mean concentration, and the 2006 primary and secondary 24-hour NAAQS for PM_{2.5} is 35 µg/m³, 24-hour average concentration, measured in the ambient air as PM_{2.5} by a method that fulfills either of the following requirements:

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- A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or
- B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

- 2) The 2006 primary and secondary annual average NAAQS for PM_{2.5} is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 15.0 µg/m³.
- 3) The 2006 primary and secondary 24-hour NAAQS for PM_{2.5} is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 35 µg/m³.
- 4) The 1997 primary annual PM_{2.5} NAAQS in this subsection (c) does not apply in any area of Illinois except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County. The primary annual PM_{2.5} NAAQS in this subsection (c) will no longer apply in any area of Illinois after USEPA has redesignated that area as attainment for that standard. The secondary annual PM_{2.5} NAAQS in this subsection (c) remains applicable.

BOARD NOTE: USEPA has codified the area designations for Illinois in 40 CFR 81.314. All areas of Illinois were designated attainment or unclassifiable/attainment except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County.

BOARD NOTE: The primary and secondary annual average NAAQS for PM_{2.5} in this subsection (c) is the 1997 primary annual average NAAQS for PM_{2.5}. USEPA retained the standard and included it with the 2006 standard in corresponding 40 CFR 50.13. See 71 Fed. Reg. 61144, 61176 (Oct. 17, 2006). This subsection (c) is derived from 40 CFR 50.13-(2016).

- d) 2012 Primary Annual Average and 24-Hour NAAQS for PM_{2.5}
 - 1) The 2012 primary annual average NAAQS for PM_{2.5} is 12.0 µg/m³ annual arithmetic mean concentration, and the 2012 primary 24-hour NAAQS for PM_{2.5} is 35 µg/m³ 24-hour average concentration, measured in the ambient air as PM_{2.5} by a method that fulfills either of the following requirements:

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- A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108; or
 - B) An FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.
- 2) The 2012 primary annual NAAQS for PM_{2.5} is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 12.0 µg/m³.
 - 3) The 2012 primary 24-hour NAAQS for PM_{2.5} is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 35 µg/m³.

BOARD NOTE: This subsection (d) is derived from 40 CFR 50.18-(2016).

(Source: Amended at 43 Ill. Reg. _____, effective _____)

Section 243.122 Sulfur Oxides (Sulfur Dioxide)

- a) 1971 Primary Annual Average and 24-Hour NAAQS for Sulfur Oxides (as Sulfur Dioxide (SO₂)):
 - 1) The level of the 1971 primary annual average NAAQS for sulfur oxides is 0.030 ppm, not to be exceeded in a calendar year. The annual arithmetic mean must be rounded to three decimal places (fractional parts equal to or greater than 0.0005 ppm must be rounded up).
 - 2) The level of the 1971 primary 24-hour NAAQS for sulfur oxides is 0.14 ppm, not to be exceeded more than once per calendar year. The 24-hour averages must be determined from successive non-overlapping 24-hour blocks starting at midnight each calendar day and must be rounded to two decimal places (fractional parts equal to or greater than 0.005 ppm must be rounded up).
 - 3) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM described in appendix A-2 to 40 CFR 50, incorporated by reference in

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Section 243.108, or by an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

- 4) To demonstrate attainment, the annual arithmetic mean and the second-highest 24-hour averages must be based upon hourly data that are at least 75 percent complete in each calendar quarter. A 24-hour block average must be considered valid if at least 75 percent of the hourly averages for the 24-hour period are available. In the event that only 18-, 19-, 20-, 21-, 22-, or 23-hour averages are available, the 24-hour block average must be computed as the sum of the available hourly averages using the number of hours (i.e., 18, 19, etc.) as the divisor. If less than 18-hour averages are available, but the 24-hour average would exceed the level of the standard when zeros are substituted for the missing values, subject to the rounding rule of subsection (b) of this Section, this must be considered a valid 24-hour average. In this case, the 24-hour block average must be computed as the sum of the available hourly averages divided by 24.

- 5) The 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in this subsection (a) remains applicable to all areas notwithstanding the promulgation of the 2010 primary one-hour NAAQS for sulfur oxides in subsection (c) of this Section. The Board will delete the 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in this subsection (a) after fulfillment of the conditions recited by USEPA in corresponding 40 CFR 50.4(e).

~~BOARD NOTE: Corresponding 40 CFR 50.4(e) recites that the 1971 primary NAAQS for sulfur oxides remains effective in two types of areas for which USEPA has not yet approved an implementation plan for attainment with the 2010 primary one-hour NAAQS for sulfur oxides. The first type of area is one that USEPA had designated as non-attainment for that standard as of the effective date of the 2010 primary one-hour NAAQS for the 1971 primary NAAQS for sulfur oxides as of the effective date of the 2010 NAAQS. That date was August 23, 2010. See 75 Fed. Reg. 35520 (June 22, 2010). As of that date, USEPA had not designated any area in Illinois as non-attainment. See 40 CFR 81.314 (2010). The Board is unaware of any USEPA SIP call for any area of Illinois relative to the 1971 primary NAAQS for sulfur oxides. USEPA designated the attainment status of two areas in Illinois for the 2010 primary one-hour NAAQS for sulfur oxides on August 5, 2013, effective October 4, 2013. See 40 CFR 81.314 (2013) as amended at 78 Fed. Reg. 47191 (Aug. 5, 2013) (Lemont and Pekin areas). The 1971 primary annual average and 24-hour NAAQS for sulfur oxides will no longer apply to those two designated areas effective October 4, 2014; although the NAAQS will~~

386 ~~continue to apply to all other areas of Illinois after that date. When the~~
 387 ~~conditions of this subsection (a)(5) have been fulfilled as to all areas of~~
 388 ~~Illinois, or USEPA has removed 40 CFR 50.4, the Board will remove the~~
 389 ~~standard of this subsection (a) as obsolete.~~

391 BOARD NOTE: This subsection (a) is derived from 40 CFR 50.4. This
 392 subsection (a) no longer applies in the following areas in Illinois: Cook
 393 County (Lemont Township only), Peoria County (Hollis Township only),
 394 Tazewell County (Cincinnati and Pekin Townships only), Will County
 395 (DuPage and Lockport Townships only), Bureau County, Jasper County,
 396 Madison County (Wood River Township, an area of southeastern Alton
 397 Township, and an area of northern Chouteau Township only), Massac
 398 County, Putnam County, and Williamson County.

- 400 b) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO₂):
- 401
- 402 1) The level of the 1971 secondary three-hour NAAQS for sulfur oxides is
- 403 0.5 ppm, not to be exceeded more than once per calendar year. The three-
- 404 hour averages must be determined from successive non-overlapping three-
- 405 hour blocks starting at midnight each calendar day and must be rounded to
- 406 one decimal place (fractional parts equal to or greater than 0.05 ppm must
- 407 be rounded up).
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- 409 2) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM
- 410 described in appendix A-2 to 40 CFR 50, incorporated by reference in
- 411 Section 243.108, or by an FEM designated by USEPA and listed in List of
- 412 Designated Methods, incorporated by reference in Section 243.108.
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- 414 3) To demonstrate attainment, the second-highest three-hour average must be
- 415 based upon hourly data that are at least 75 percent complete in each
- 416 calendar quarter. A three-hour block average must be considered valid
- 417 only if all three hourly averages for the three-hour period are available. If
- 418 only one or two hourly averages are available, but the three-hour average
- 419 would exceed the level of the standard when zeros are substituted for the
- 420 missing values, subject to the rounding rule of subsection (b)(1) ~~of this~~
- 421 ~~Section~~, this must be considered a valid three-hour average. In all cases,
- 422 the three-hour block average must be computed as the sum of the hourly
- 423 averages divided by three.

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425 BOARD NOTE: This subsection (b) is derived from 40 CFR 50.5.

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- 427 c) 2010 Primary One-Hour NAAQS for Sulfur Oxides (as SO₂):
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- 1) The level of the 2010 primary one-hour NAAQS for sulfur oxides is 75 ppb, measured in the ambient air as SO₂.
- 2) The 2010 one-hour primary NAAQS for sulfur oxides is met at an ambient air quality monitoring site when the three-year average of the annual (99th percentile) of the daily maximum one-hour average concentrations is less than or equal to 75 ppb, as determined in accordance with appendix T of 40 CFR 50, incorporated by reference in Section 243.108.
- 3) The level of the 2010 one-hour primary NAAQS for sulfur oxides must be measured by an FRM based on appendix A-1 or A-2 of 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (c) is derived from 40 CFR 50.17. The 1971 primary NAAQS for SO₂ remains in effect until the federal conditions of 40 CFR 50.4(e) have been fulfilled, as outlined in subsection (a)(5) ~~of this Section~~ and the appended Board note.

(Source: Amended at 43 Ill. Reg. _____, effective _____)

Section 243.125 Ozone

a) 2008 Primary and Secondary Eight-Hour NAAQS for Ozone:

- 1) The 2008 primary and secondary eight-hour NAAQS for ozone is 0.075 ppm, daily maximum eight-hour average, measured by an FRM based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, or an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
- 2) The 2008 primary and secondary eight-hour NAAQS for ozone ambient air quality standards are met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.075 ppm, as determined in accordance with appendix P to 40 CFR 50, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.15 (2015).

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b) 2015 Primary and Secondary Eight-Hour NAAQS for Ozone-

- 1) The level of the eight-hour primary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.
- 2) The eight-hour primary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.
- 3) The level of the secondary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average ozone concentration, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, and designated in accordance with part 53 of this chapter or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.
- 4) The eight-hour secondary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.19-(2015).

(Source: Amended at 43 Ill. Reg. _____, effective _____)

Section 243.126 Lead

a) 1978 Primary and Secondary Quarterly Average NAAQS for Lead-

- 1) The 1978 primary and secondary quarterly average NAAQS for lead and its compounds, measured as elemental lead by an FRM based on appendix G to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, or by an FEM designated by

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USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, is 1.5 µg/m³, maximum arithmetic mean averaged over a calendar quarter until March 28, 2019.

- 2) The 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) will remain applicable to all areas until March 28, 2019 notwithstanding the 2008 primary and secondary quarterly average NAAQS for lead in subsection (b) ~~of this Section.~~ The 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) will no longer apply to ~~any~~ an area in Illinois after March 27, 2019 ~~one year after the effective date of the designation of that area by USEPA pursuant to 42 USC 7407 for the 2008 primary and secondary three-month average NAAQS for lead set forth in subsection (b) of this Section; except that, for areas designated nonattainment for the 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) as of January 12, 2009, the 1978 primary and secondary NAAQS for lead set forth in this subsection (a) will apply until USEPA has approved an implementation plan for that area pursuant to 42 USC 7514 providing for attainment or maintenance of the 2008 primary and secondary three-month average NAAQS for lead set forth in subsection (b) of this Section.~~

BOARD NOTE: ~~The Board substituted "January 12, 2009" for the open-ended language in corresponding 40 CFR 50.12(b) relative to the effective date of 40 CFR 50.16. January 12, 2009 is the effective date recited at 73 Fed. Reg. 66964 (Nov. 12, 2008). USEPA designated the Granite City as nonattainment with the 2008 primary and secondary three-month average NAAQS for lead in 2010 and an area of Chicago nonattainment areas as attainment effective March 28, 2018 in 2011. USEPA designated all other areas of Illinois for the 2008 primary and secondary three-month average NAAQS for lead in 2012. See 40 CFR 81.314 (area designations in Illinois), as amended at 83; 76 Fed. Reg. 13198 (Mar. 28, 2018) 72097, 108 (Nov. 22, 2011) (effective December 31, 2011); 75 Fed. Reg. 71033, 42 (Nov. 22, 2010) (effective December 31, 2010). Thus, this subsection (a) will be obsolete effective March 28, 2019 since December 31, 2012.~~

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.12-(2012).

- b) 2008 Primary and Secondary Three-Month Average NAAQS for Lead.
 - 1) The 2008 primary and secondary three-month average NAAQS for lead and its compounds is 0.15 µg/m³, arithmetic mean concentration over a

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three-month period, measured in the ambient air as lead by either of the following:

A) An FRM based on appendix G of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or;

B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 2008 primary and secondary three-month average NAAQS for lead are met when the maximum arithmetic three-month mean concentration for a three-year period, as determined in accordance with appendix R of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 0.15 µg/m³.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.16-(2012).

(Source: Amended at 43 Ill. Reg. _____, effective _____)

AGENCY VS JCAR 707

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER 1: AIR QUALITY STANDARDS AND EPISODES

PART 243
AIR QUALITY STANDARDS

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243.102 Scope
243.103 Applicability
243.104 Nondegradation (Repealed)
243.105 Air Quality Monitoring Data Influenced by Exceptional Events
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243.107 Reference Conditions
243.108 Incorporations by Reference

SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section
243.120 PM10 and PM2.5
243.121 Particulates (Repealed)
243.122 Sulfur Oxides (Sulfur Dioxide)
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243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)
243.125 Ozone
243.126 Lead

243.APPENDIX A Rule into Section Table (Repealed)
243.APPENDIX B Section into Rule Table (Repealed)
243.APPENDIX C Past Compliance Dates (Repealed)
243.TABLE A Schedule for Flagging and Documentation Submission for Data Influenced by Exceptional Events for Use in Initial Area Designations (Repealed)

AUTHORITY: Implementing Sections 7.2 and 10 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/7.2, 10, and 27].

SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23, filed and effective April 14, 1972; amended in R80-11, at 6 Ill. Reg. 5804, effective April 22, 1982; amended in R82-12, at 7 Ill. Reg. 9906, effective August 18, 1983; codified at 7 Ill. Reg. 13630; amended in R91-35 at 16 Ill. Reg. 8185, effective May 15, 1992; amended in R09-19 at 35 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 Ill. Reg. 12882, effective July 29, 2013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 27, 2013; amended in R14-16 at 38 Ill. Reg. 12900, effective June 9, 2014; amended in R15-4 at 39 Ill. Reg. 5434, effective March 24, 2015; amended in R16-2 at 40 Ill. Reg. 4906, effective March 3, 2016; amended in R17-1 at

41 Ill. Reg. 1121, effective January 23, 2017; amended in R17-10 at 41 Ill. Reg. 13413, effective October 23, 2017; amended in R18-15 at 42 Ill. Reg. 9308, effective May 29, 2018; amended in R19-6 at 43 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 243.108 Incorporations by Reference

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions:

Government Printing Office (GPO), 732 Capitol Street NW, Washington, DC 20401 (telephone: 202-512-1800 or 866-512-1800; website: www.gpo.gov). The following documents incorporated by reference are available from this source:

Appendix A-1 to 40 CFR 50 (2018) (~~2017~~)—(Reference Measurement Principle and Calibration Procedure for the Measurement of Sulfur Dioxide in the Atmosphere (Ultraviolet Fluorescence Method)), referenced in Section 243.122.

Appendix A-2 to 40 CFR 50 (2018) (~~2017~~)—(Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method)), referenced in Section 243.122.

Appendix B to 40 CFR 50 (2018) (~~2017~~) (Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method)), referenced in appendix G to 40 CFR 50 (see below).

Appendix C to 40 CFR 50 (2018) (~~2017~~) (Reference Measurement Principle and Calibration Procedure for the Measurement of Carbon Monoxide in the Atmosphere (Non-Dispersive Infrared Photometry)), referenced in Section 243.123.

Appendix D to 40 CFR 50 (2018) (~~2017~~) (Reference Measurement Principle and Calibration Procedure for the Measurement of Ozone in the Atmosphere), referenced in Section 243.125.

Appendix F to 40 CFR 50 (2018) (~~2017~~) (Reference Measurement Principle and Calibration Procedure for the Measurement of Nitrogen Dioxide in the Atmosphere (Gas Phase Chemiluminescence)), referenced in Section 243.124.

Appendix G to 40 CFR 50 (2018) (~~2017~~) (Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air), referenced in Section 243.126.

Appendix H to 40 CFR 50 (2018) (~~2017~~)—(Interpretation of the 1-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix I to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the 8-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix J to 40 CFR 50 (2018) ~~(2017)~~ (Reference Method for the Determination of Particulate Matter as PM10 in the Atmosphere), referenced in Section 243.120.

Appendix K to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Particulate Matter), referenced in Section 243.120.

Appendix L to 40 CFR 50 (2018) ~~(2017)~~ (Reference Method for the Determination of Fine Particulate Matter as PM2.5 in the Atmosphere), referenced in Section 243.120.

Appendix N to 40 CFR 50 (2018) ~~(2017), as amended at 82 Fed. Reg. 14325- (Mar. 20, 2017)~~ (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Particulate Matter), referenced in Section 243.120.

Appendix O to 40 CFR 50 (2018) ~~(2017)~~ (Reference Method for the Determination of Coarse Particulate Matter as PM10-2.5 in the Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in federally required monitoring by the NCore system pursuant to 40 CFR 58.

Appendix P to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix Q to 40 CFR 50 (2018) ~~(2017)~~ (Reference Method for the Determination of Lead in Particulate Matter as PM10 Collected from Ambient Air), referenced in appendix R to 40 CFR 50.

Appendix R to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.

Appendix S to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen Dioxide)), referenced in Section 243.124.

Appendix T to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)), referenced in Section 243.122.

Appendix U to 40 CFR 50 (2018) ~~(2017)~~ (Interpretation of the Primary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Clean Air Act, 42 USC 7401 et seq. (2016) (for definitions of terms only), referenced in Section 243.102.

BOARD NOTE: Segments of the Code of Federal Regulations and the United States Code are available for free download as PDF documents from the GPO FDSys website: <http://www.gpo.gov/?fdsys/>.

USEPA, National Exposure Research Laboratory, Human Exposure & Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC 27711. The following documents incorporated by reference are available from this source:

"List of Designated Reference and Equivalent Methods" (June ~~December~~ 15, 2018-2017) (referred to as the "List of Designated Methods" and referenced in Sections 243.101, 243.120, 243.122, 243.123, 243.124, 243.125, and 243.126.

BOARD NOTE: The List of Designated Methods is available for free download as a PDF document from the USEPA, Technology Transfer, Ambient Monitoring Technology Information Center website: <http://www.epa.gov/ttn/amtic/criteria.html>.

(Source: Amended at 43 Ill. Reg. _____, effective _____)

SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section 243.120 PM10 and PM2.5

a) 1987 Primary and Secondary 24-Hour NAAQS for ~~PM10~~.10

1) The level of the 1987 primary and secondary 24-hour NAAQS for PM10 is 150 µg/m³, 24-hour average concentration. The 1987 primary and secondary NAAQS for PM10 is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³, as determined in accordance with appendix K to 40 CFR 50, incorporated by reference in Section 243.108, is equal to or less than one.

2) This subsection (a)(2) corresponds with 40 CFR 50.6(b), a provision marked "reserved" by USEPA. This statement maintains structural consistency with the corresponding federal regulation.

3) For the purpose of determining attainment of the 1987 primary and secondary 24-hour NAAQS for PM10, particulate matter must be measured in the ambient air as PM10 by a method that fulfills either of the following requirements:

A) An FRM based on appendix J to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108; or

B) An FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR ~~50.6~~ ~~(2016)~~.50.6. USEPA adopted 1997 primary NAAQS for PM10 at 62 Fed. Reg. 38652 (July 18, 1997). As a result of a judicial vacatur, USEPA later removed the transitional provision relative to the 1987 NAAQS at 65 Fed. Reg. 80776 (Dec. 22, 2000) and the 1997 NAAQS at 69 Fed. Reg. 45595 (July 30, 2004). Thus, the 1987 primary and secondary NAAQS for PM10 are included in this subsection (a).

b) 1997 Primary and Secondary Annual Average and 24-Hour NAAQS for ~~PM2.5~~.2.5

1) The 1997 primary and secondary annual average NAAQS for PM2.5 is 15.0 µg/m³, annual arithmetic mean concentration, and the 1997 primary and secondary 24-hour NAAQS for PM2.5 is 65 µg/m³, 24-hour average concentration, measured in the ambient air as PM2.5 by a method that fulfills either of the following requirements:

A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or

B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 1997 primary and secondary annual average NAAQS for PM2.5 is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 15.0 µg/m³.

3) The 1997 primary and secondary 24-hour NAAQS for PM2.5 is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 65 µg/m³.

4) The primary annual PM2.5 NAAQS in this subsection (b) does not apply in any area of Illinois except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County. The primary NAAQS for PM2.5 in this subsection (b) will no longer apply in any area of Illinois after USEPA has redesignated that area as attainment for that standard. The 1997 secondary annual NAAQS for PM2.5 and the 1997 24-hour PM2.5 NAAQS in this subsection (b) remain applicable.

~~BOARD NOTE: USEPA has codified the area designations for Illinois in 40 CFR 81.314. All areas of Illinois were designated attainment or unclassifiable/attainment except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County.~~

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.7 ~~(2016)~~ and ~~40 CFR 50.13(d)~~, as added at ~~82 Fed. Reg. 14325 (Mar. 20, 2017)~~. The Board added the revocation clause of 40 CFR 50.13(d) as both ~~this~~ subsections (b) (4) and (c) (4), even though USEPA did not add the text to corresponding 40 CFR 50.7.

c) 2006 Primary and Secondary Annual Average and 24-Hour NAAQS for ~~PM2.5-2.5~~

1) The 2006 primary and secondary annual average NAAQS for PM2.5 is 15.0 µg/m³, annual arithmetic mean concentration, and the 2006 primary and secondary 24-hour NAAQS for PM2.5 is 35 µg/m³, 24-hour average concentration, measured in the ambient air as PM2.5 by a method that fulfills either of the following requirements:

A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or

B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 2006 primary and secondary annual average NAAQS for PM2.5 is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 15.0 µg/m³.

3) The 2006 primary and secondary 24-hour NAAQS for PM2.5 is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 35 µg/m³.

4) The 1997 primary annual PM2.5 NAAQS in this subsection (c) does not apply in any area of Illinois except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County. The primary annual PM2.5 NAAQS in this subsection (c) will no longer apply in any area of Illinois after USEPA has redesignated that area as attainment for that standard. The secondary annual PM2.5 NAAQS in this subsection (c) remains applicable.

BOARD NOTE: USEPA has codified the area designations for Illinois in 40 CFR 81.314. All areas of Illinois were designated attainment or unclassifiable/attainment except Madison, Monroe, and St. Clair Counties and the Baldwin Village area of Randolph County.

BOARD NOTE: The primary and secondary annual average NAAQS for PM2.5 in this subsection (c) is the 1997 primary annual average NAAQS for PM2.5. USEPA retained the standard and included it with the 2006 standard in corresponding 40 CFR 50.13. See 71 Fed. Reg. 61144, 61176 (Oct. 17, 2006). This subsection (c) is derived from 40 CFR ~~50.13-(2016)-50.13.~~

d) 2012 Primary Annual Average and 24-Hour NAAQS for PM2.5

1) The 2012 primary annual average NAAQS for PM2.5 is 12.0 µg/m³ annual arithmetic mean concentration, and the 2012 primary 24-hour NAAQS for PM2.5 is 35 µg/m³ 24-hour average concentration, measured in the ambient air as PM2.5 by a method that fulfills either of the following requirements:

A) An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108; or

B) An FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

2) The 2012 primary annual NAAQS for PM2.5 is met when the annual arithmetic mean concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 12.0 µg/m³.

3) The 2012 primary 24-hour NAAQS for PM2.5 is met when the 98th percentile 24-hour concentration, as determined in accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 35 µg/m³.

BOARD NOTE: This subsection (d) is derived from 40 CFR ~~50.18-~~
~~(2016)-50.18.~~

(Source: Amended at 43 Ill. Reg. ~~—~~, effective
~~_____~~)

Section 243.122 Sulfur Oxides (Sulfur Dioxide)

a) 1971 Primary Annual Average and 24-Hour NAAQS for Sulfur Oxides (as Sulfur Dioxide (SO₂))

1) The level of the 1971 primary annual average NAAQS for sulfur oxides is 0.030 ppm, not to be exceeded in a calendar year. The annual arithmetic mean must be rounded to three decimal places (fractional parts equal to or greater than 0.0005 ppm must be rounded up).

2) The level of the 1971 primary 24-hour NAAQS for sulfur oxides is 0.14 ppm, not to be exceeded more than once per calendar year. The 24-hour averages must be determined from successive non-overlapping 24-hour blocks starting at midnight each calendar day and must be rounded to two decimal places (fractional parts equal to or greater than 0.005 ppm must be rounded up).

3) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM described in appendix A-2 to 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

4) To demonstrate attainment, the annual arithmetic mean and the second-highest 24-hour averages must be based upon hourly data that are at least 75 percent complete in each calendar quarter. A 24-hour block average must be considered valid if at least 75 percent of the hourly averages for the 24-hour period are available. In the event that only 18-, 19-, 20-, 21-, 22-, or 23-hour averages are available, the 24-hour

block average must be computed as the sum of the available hourly averages using the number of hours (i.e., 18, 19, etc.) as the divisor. If less than 18-hour averages are available, but the 24-hour average would exceed the level of the standard when zeros are substituted for the missing values, subject to the rounding rule of subsection (b) of this Section, this must be considered a valid 24-hour average. In this case, the 24-hour block average must be computed as the sum of the available hourly averages divided by 24.

5) The 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in this subsection (a) remains applicable to all areas notwithstanding the promulgation of the 2010 primary one-hour NAAQS for sulfur oxides in subsection (c) of this Section. The Board will delete the 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in this subsection (a) after fulfillment of the conditions recited by USEPA in corresponding 40 CFR 50.4(e).

~~BOARD NOTE: Corresponding 40 CFR 50.4(e) recites that the 1971 primary NAAQS for sulfur oxides remains effective in two types of areas for which USEPA has not yet approved an implementation plan for attainment with the 2010 primary one hour NAAQS for sulfur oxides. The first type of area is one that USEPA had designated as non attainment for that standard as of the effective date of the 2010 primary one hour NAAQS for the 1971 primary NAAQS for sulfur oxides as of the effective date of the 2010 NAAQS. That date was August 23, 2010. See 75 Fed. Reg. 35520 (June 22, 2010). As of that date, USEPA had not designated any area in Illinois as non attainment. See 40 CFR 81.314 (2010). The Board is unaware of any USEPA SIP call for any area of Illinois relative to the 1971 primary NAAQS for sulfur oxides. USEPA designated the attainment status of two areas in Illinois for the 2010 primary one hour NAAQS for sulfur oxides on August 5, 2013, effective October 4, 2013. See 40 CFR 81.314 (2013), as amended at 78 Fed. Reg. 47191 (Aug. 5, 2013) (Lemont and Pekin areas). The 1971 primary annual average and 24 hour NAAQS for sulfur oxides will no longer apply to those two designated areas effective October 4, 2014; although the NAAQS will continue to apply to all other areas of Illinois after that date. When the conditions of this subsection (a)(5) have been fulfilled as to all areas of Illinois, or USEPA has removed 40 CFR 50.4, the Board will remove the standard of this subsection (a) as obsolete.~~

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.4. This subsection (a) no longer applies in the following areas in Illinois: Cook County (Lemont Township only), Peoria County (Hollis Township only), Tazewell County (Cincinnati and Pekin Townships only), Will County (DuPage and Lockport Townships only), Bureau County, Jasper County, Madison County (Wood River Township, an area of southeastern Alton Township, and an area of northern Chouteau Township only), Massac County, Putnam County, and Williamson County.

b) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO₂)~~-~~

1) The level of the 1971 secondary three-hour NAAQS for sulfur oxides is 0.5 ppm, not to be exceeded more than once per calendar year. The three-hour averages must be determined from successive non-overlapping three-hour blocks starting at midnight each calendar day and must be rounded to one decimal place (fractional parts equal to or greater than 0.05 ppm must be rounded up).

2) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM described in appendix A-2 to 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

3) To demonstrate attainment, the second-highest three-hour average must be based upon hourly data that are at least 75 percent complete in each calendar quarter. A three-hour block average must be considered valid only if all three hourly averages for the three-hour period are available. If only one or two hourly averages are available, but the three-hour average would exceed the level of the standard when zeros are substituted for the missing values, subject to the rounding rule of subsection (b) (1) ~~of this Section~~, this must be considered a valid three-hour average. In all cases, the three-hour block average must be computed as the sum of the hourly averages divided by three.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.5.

c) 2010 Primary One-Hour NAAQS for Sulfur Oxides (as SO₂)~~-~~

1) The level of the 2010 primary one-hour NAAQS for sulfur oxides is 75 ppb, measured in the ambient air as SO₂.

2) The 2010 one-hour primary NAAQS for sulfur oxides is met at an ambient air quality monitoring site when the three-year average of the annual (99th percentile) of the daily maximum one-hour average concentrations is less than or equal to 75 ppb, as determined in accordance with appendix T of 40 CFR 50, incorporated by reference in Section 243.108.

3) The level of the 2010 one-hour primary NAAQS for sulfur oxides must be measured by an FRM based on appendix A-1 or A-2 of 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (c) is derived from 40 CFR 50.17. The 1971 primary NAAQS for SO₂ remains in effect until the federal conditions of 40 CFR 50.4(e) have been fulfilled, as outlined in subsection (a) (5) ~~of this Section~~ and the appended Board note.

(Source: Amended at 43 Ill. Reg. _____, effective _____)

Section 243.125 Ozone

a) 2008 Primary and Secondary Eight-Hour NAAQS for Ozone~~-~~

1) The 2008 primary and secondary eight-hour NAAQS for ozone is 0.075 ppm, daily maximum eight-hour average, measured by an FRM based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, or an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 2008 primary and secondary eight-hour NAAQS for ozone ambient air quality standards are met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.075 ppm, as determined in accordance with appendix P to 40 CFR 50, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR ~~50.15-~~
~~(2015)-50.15.~~

b) 2015 Primary and Secondary Eight-Hour NAAQS for Ozone~~-~~

1) The level of the eight-hour primary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.

2) The eight-hour primary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.

3) The level of the secondary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average ozone concentration, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, and designated in accordance with part 53 of this chapter or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.

4) The eight-hour secondary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (b) is derived from 40 CFR ~~50.19-~~
~~(2015)-50.19.~~

(Source: Amended at 43 Ill. Reg. _____, effective _____)

Section 243.126 Lead

a) 1978 Primary and Secondary Quarterly Average NAAQS for Lead-

1) The 1978 primary and secondary quarterly average NAAQS for lead and its compounds, measured as elemental lead by an FRM based on appendix G to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108, is 1.5 µg/m³, maximum arithmetic mean averaged over a calendar quarter until March 28, 2019.

2) The 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) will remain applicable to all areas until March 28, 2019 notwithstanding the 2008 primary and secondary quarterly average NAAQS for lead in subsection (b) ~~of this Section~~. The 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) will no longer apply to any ~~an~~ area in Illinois after March 27, 2019 ~~one year after the effective date of the designation of that area by USEPA pursuant to 42 USC 7407 for the 2008 primary and secondary three month average NAAQS for lead set forth in subsection (b) of this Section; except that for areas designated nonattainment for the 1978 primary and secondary quarterly average NAAQS for lead set forth in this subsection (a) as of January 12, 2009, the 1978 primary and secondary NAAQS for lead set forth in this subsection (a) will apply until USEPA has approved an implementation plan for that area pursuant to 42 USC 7514 providing for attainment or maintenance of the 2008 primary and secondary three month average NAAQS for lead set forth in subsection (b) of this Section.~~

BOARD NOTE: ~~The Board substituted "January 12, 2009" for the open ended language in corresponding 40 CFR 50.12(b) relative to the effective date of 40 CFR 50.16. January 12, 2009 is the effective date recited at 73 Fed. Reg. 66964 (Nov. 12, 2008). USEPA designated the Granite City as nonattainment with the 2008 primary and secondary three month average NAAQS for lead in 2010 and an area of and Chicago nonattainment areas as attainment effective March 28, 2018 in 2011. USEPA designated all other areas of Illinois for the 2008 primary and secondary three month average NAAQS for lead in 2012-2018. See 40 CFR 81.314 (area designations in Illinois), as amended at 83, 76 Fed. Reg. 13198 (Mar. 28, 2018) 72097, 108 (Nov. 22, 2011) (effective December 31, 2011); 75 Fed. Reg. 71033, 42 (Nov. 22, 2010) (effective December 31, 2010). Thus, this subsection (a) will be has been obsolete effective March 28, 2019 since December 31, 2012-2019.~~

BOARD NOTE: This subsection (a) is derived from 40 CFR ~~50.12~~ (2012)-50.12.

b) 2008 Primary and Secondary Three-Month Average NAAQS for Lead~~-~~

1) The 2008 primary and secondary three-month average NAAQS for lead and its compounds is 0.15 µg/m³, arithmetic mean concentration over a three-month period, measured in the ambient air as lead by either of the following:

A) An FRM based on appendix G of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108~~;~~ or~~+~~

B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.

2) The 2008 primary and secondary three-month average NAAQS for lead are met when the maximum arithmetic three-month mean concentration for a three-year period, as determined in accordance with appendix R of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to 0.15 µg/m³.

BOARD NOTE: This subsection (b) is derived from 40 CFR ~~50.16-~~
~~(2012)-50.16.~~

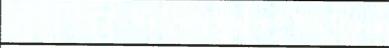
(Source: Amended at 43 Ill. Reg. ~~---~~, effective
~~_____~~)

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~~ILLINOIS REGISTER~~
~~POLLUTION CONTROL BOARD~~
~~NOTICE OF PROPOSED AMENDMENTS~~

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