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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 Action</u>: 243.107 Amend 243.108 Amend 243.120 Amend 243.122 Amend 243.TABLE A Amend

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- 4) <u>Statutory Authority</u>: 415 ILCS 5/7.2, 10, and 27
- 5) <u>A Complete Description of the Subjects and Issues Involved</u>: 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 September 5, 2013, proposing amendments in docket R14-6 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 amendments for 45 days from the date they appear in the Illinois Register before proceeding to adopt amendments based on this proposal.

The R14-6 proceeding relates to the Illinois ambient air quality requirements in 35 Ill. Adm. Code 243 of the Illinois air pollution control rules. These amendments 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, 2013 through June 30, 2013. The Federal NAAQS are codified at 40 C.F.R. 50. During this period, USEPA amended its NAAQSs as follows:

January 15, 2013	USEPA adopted new 2012 primary 24-hour and
(78 Fed. Reg.	annual average NAAQS for PM2.5. USEPA further
3086)	revised the interpretation of the NAAQS for PM2.5.
June 27, 2013	USEPA updated the "List of Designated Reference
	and Equivalent Methods".

The Board has further included amendments based on two USEPA actions that occurred after July 1, 2013. Those two federal actions are described as follows:

July 3, 2013 USEPA amended appendix G to 40 C.F.R. 50 to establish a new federal reference method (FRM) for

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(78 Fed. Reg.	measuring lead in total suspended particulate matter
40000)	for the purposes of the lead NAAQS.
August 5, 2013	USEPA made area designations for the 2010
(78 Fed. Reg.	NAAQS for sulfur dioxide.
47191)	

Tables appear in the Board's opinion and order of September 5, 2013 in docket R14-6 that list a limited number of deviations from the literal text of the federal amendments and corrections and amendments that are not directly based on current federal amendments. The tables contain deviations from the literal text of the federal amendments underlying these amendments, as well as corrections and clarifications that the Board made in the base text involved. Persons interested in the details of those corrections and amendments should refer to the September 5, 2013 opinion and order in docket R14-6.

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 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.

- Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Will this proposed rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? Yes
- 10) Statement of Statewide Policy Objective: None
- 11) Are there any other rulemaking pending on this Part? No
- 12) <u>Time, Place and Manner in which interested persons may comment on this proposed</u> <u>rulemaking</u>: 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 R14-6 and be addressed to:

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John T. Therriault, Assistant 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 they 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) (2006)) 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 locations:

1:00 p.m., October 31, 2013

James R. Thompson Center Illinois Pollution Control Board Hearing Room 100 West Randolph Street, Room 11-512 Chicago

and

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

Please direct inquiries to the following person and reference docket R14-6:

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

Phone: 312-814-6924 E-mail: mccambm@ipcb.state.il.us

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.

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13) Initial regulatory flexibility analysis:

- A) <u>Types of small businesses, small municipalities, and not-for-profit corporations affected</u>: 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) (2012)].
- B) <u>Reporting, bookkeeping or other procedures required for compliance</u>: 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) (2012)].
- C) <u>Types of professional skills necessary for compliance</u>: 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) (2012)].
- <u>Regulatory Agenda on which this rulemaking was summarized</u>: 37 Ill. Reg. 9060; June 28, 2013

The full text of the proposed rulemaking begins on the next page:

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

PART 243 AIR QUALITY STANDARDS

SUBPART A: GENERAL PROVISIONS

Section

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

SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section

- 243.120 PM₁₀ and PM_{2.5}
- 243.121 Particulates (Repealed)
- 243.122 Sulfur Oxides (Sulfur Dioxide)
- 243.123 Carbon Monoxide
- 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 of Exceptional Event Flagging and Documentation Submission
	for New or Revised NAAQS

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

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SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23, <u>4</u> <u>PCB 191.</u> filed and effective April 14, 1972; amended in R80-11, <u>46 PCB 125.</u> at 6 III. Reg. 5804, effective April 22, 1982; amended in R82-12, at 7 III. Reg. 9906, effective August 18, 1983; codified at 7 III. Reg. 13630; amended in R91-35 at 16 III. Reg. 8185, effective May 15, 1992; amended in R09-19 at 35 III. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 III. Reg. 12882, effective July 29, 2013; amended in R14-6 at 37 III. Reg. _____, effective ______.

SUBPART A: GENERAL PROVISIONS

Section 243.107 Reference Conditions

All measurements of air quality that are expressed as mass per unit volume (e.g., micrograms per cubic meter, other than for particulate matter (PM_{2.5}) standards contained in Section 243.120(b), and (c)_{\bar{z}} and (d) and lead standards contained in Section 243.126(b), are corrected to a reference temperature of 25^o₌ C, and to a reference pressure of 760 millimeters of mercury (1013.2 millibars). Measurements of PM_{2.5}, for purposes of comparison to the standards contained in Section 243.120(b), and (c)_{\bar{z}} and (d), and lead, for purposes of comparison to the standards contained in Section 243.126(b), must be reported based upon the actual ambient air volume measured at the actual temperature and pressure at the monitoring site during the measurement period.

BOARD NOTE: Derived from 40 CFR 50.3 (2012) (2013 2013 2013 2012).

(Source: Amended at 37 Ill. Reg. — , effective _____)

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 (2012)(2013)(2012) (Reference Measurement Principle and Calibration Procedure for the Measurement of Sulfur Dioxide in the Atmosphere (Ultraviolet Fluorescence Method)), referenced in Section 243.122.

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Appendix A-2 to 40 CFR 50 (2012) (2013)(2012) (Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method)), referenced in Section 243.122.

Appendix B to 40 CFR 50 (2012) (2013)(2012) (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 (2012) (2013)(2012) (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 (2012) (2013)(2012) (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 (2012) (2013)(2012) (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-(2012) (2013), as amended at 78 Fed. Reg. 40000 (July 3, 2013)(2012) (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 (2012) (2013)(2012) (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 (2012) (2013)(2012) (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 ($\frac{2012}{2}$ (2013)(2012) (Reference Method for the Determination of Particulate Matter as PM₁₀ in the Atmosphere), referenced in Section 243.120.

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Appendix K to 40 CFR 50 (2012) (2013)(2012) (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 ($\frac{2012}{2}$ (2013)(2012) (Reference Method for the Determination of Fine Particulate Matter as PM_{2.5} in the Atmosphere), referenced in Section 243.120.

Appendix N to 40 CFR 50-(2012) (2013), as amended at 78 Fed. Reg. 47191 (August 5, 2013)(2012) (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 ($\frac{2012}{2}$ (2013)(2012) (Reference Method for the Determination of Coarse Particulate Matter as PM_{10-2.5} 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 (2012) (2013)(2012) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix Q to 40 CFR 50 ($\frac{2012}{(2012)}$ (2013)(2012) (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 (2012) (2013)(2012) (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.

Appendix S to 40 CFR 50 (2012) (2013)(2012) (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 (2012) (2013)(2012) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)), referenced in Section 243.122.

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Clean Air Act, 42 USC 7401 et seq. (2011) (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//.

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 27, 2013) (December 17, 2012) (June 27, 2013) (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 243.126.243.126 This reference includes, as an FEM, the no-former codified FRM that USEPA designated an FEM in the following no Federal Register notices noticenotices subsequent to June 27, 2013 December 17, 2012 that updated List of Designated Methods. June 27, 2013:

78 Fed. Reg. 40000 (July 3, 2013) (designating the former FRM in appendix G toof 40 CFR 50 as an FEM).

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

(Source: Amended at 37 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.
 - 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

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per calendar year with a 24-hour average concentration above $150 \ \mu g/m^3$, 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 51.6(b), a provision marked <u>""reserved</u>" 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:
 - 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 the List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.6 (2012). (2013)(2012). 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}.
 - 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 concentration, measured in the ambient air as PM_{2.5} by a method that fulfills either of the following requirements:
 - 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

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- 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.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.7 (2012)_ (2013)(2012). The 2006 primary and secondary annual average and 24-hour NAAQS for PM 2.5 differs from the 1997 standards in that the 24-hour average concentration required by the 2006 standard is substantially lower (more stringent) than that for the 1997 standard. The Board has retained the 1997 standard in this subsection (b) because USEPA has retained the 1997 standard in 40 CFR 50.6.

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

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accordance with appendix N of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to $15.0 \ \mu g/m^3$.

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.

BOARD NOTE: This subsection (c) is derived from 40 CFR 50.13 (2012).

- d) · 2012 Primary Annual Average and 24-Hour NAAQS for PM2.5
 - 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:
 - 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 <u>50.50</u>, 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 50.13 (2013).

(Source: Amended at 37 Ill. Reg. ____, effective _____)

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Section 243.122 Sulfur Oxides (Sulfur Dioxide)

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

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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 NAAOS 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. As of December 31, 2012, USEPA had not yet designated the attainment status of two areas in Illinois for the 2010 primary one-hour NAAOS for sulfur oxides on August 5, 2013, effective October 4, 2013. See 40 CFR 81.314 (2012) (2013), as amended at 78 Fed. Reg. 47191 (Aug. 5, 2013) (Lemont and Pekin areas). See 40 CFR 81.314 (2012). The 1971 primary annual average and 24-hour NAAOS for sulfur oxides will no longer apply to those two designated areas effective October 4, 2014: although the NAAOS will continue to apply to all other areas of Illinois after that date. The Agency recommended that USEPA designate limited areas of Illinois as non-attainment with the 2010 primary one-hour NAAQS. See letter of June 2, 2011 from Laurel Kroack, Chief, Bureau of Air, Agency, to Cheryl A. Newton, Director, Office of the Air and Radiation Division, USEPA

Region 5 (available at

http://www.epa.gov/designations//_IL_rec_wtechanalysis.pdf). 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 (2012).

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- b) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO₂).
 - 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 (2012).

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

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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 (2012). 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 57 m. Reg. — , enecuve	(Source:	Amended at 37 Ill. Reg	, effective	
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Section 243.TABLE A Schedule of Exceptional Event Flagging and Documentation Submission for New or Revised NAAQS

NAAQS (Level) Regulatory Citations	Air quality data collected for calendar year	Event flagging & initial description deadline	Detailed documentation submission deadline
2006 24-hour PM _{2.5} (35 μg/m ³) Section 243.120(c)(1) 40 CFR 50.13(a) 71 Fed. Reg. 61144 (Oct. 17, 2006)	20042006	October 1, 2007	April 15, 2008
2008 eight-hour ozone (0.075 ppm) Section 243.125(c)(1) 40 CFR 50.15(a) 73 Fed. Reg. 16436 (Mar. 27, 2008)	2005– <u>2</u> 007 2008 2009	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first
2010 one-hour nitrogen oxides (as NO ₂) (100 ppb) Section 243.124(b) 40 CFR 50.11(b) 75 Fed. Reg. 6474 (Feb. 9, 2010)	2008 2009 2010	July 1, 2010 July 1, 2010 April 1, 2011	January 22, 2011 January 22, 2011 July 1, 2010
2010 one-hour sulfur oxides (as SO ₂) (75 ppb) Section 243.122(c)(1) 40 CFR 17(a) 75 Fed. Reg. 35520 (June 22, 2010)	2008 2009 2010 2011	October 1, 2010 October 1, 2010 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first	June 1, 2011 June 1, 2011 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occured first
2012 annual PM _{2.5} (12 μg/m ³)	2010 and 2011	July 1, 2013 July 1, 2013	December 12, 2013 December 12, 2013

POLLUTION CONTROL

BOARDJCAR350243-1315314r01

NOTICE OF PROPOSED AMENDMENTS

Section 243.120(d)(1)	2012	July 1, 2014	August 1, 2014
40 CFR 50.18(a)	2013		
78 Fed. Reg. 3086 (Jan. 15,			
2013)			

BOARD NOTE: Derived from table 1 to 40 CFR 50.14(c) (2012). USEPA noted that the information in this table of revised deadlines only applies to data that USEPA will use to establish the final initial area designations for new or revised NAAQS. USEPA stated that the general schedule in this table applies for all other purposes, most notably, for data that USEPA will use for redesignations to attainment. Corresponding table 1 to 40 CFR 50.14(c)(2) cites the 2010 one-hour NAAQS for nitrogen oxides as "80-100 PPB, final level TBD" and the 2010one-hour NAAQS for sulfur oxides as "80-100 PPB, final level TBD." The adopted 2010one-hour NAAQS for NOx at 40 CFR 50.11(f) is 100 ppb and the adopted 2010 one-hour NAAQS for SO2 is 75 ppb. The Board has used the actual NAAQS for these contaminants in this Table A. Further, corresponding table 1 to 40 CFR 50.14(c) includes endnotes "a" and "b" indicate whether dates for NO2 and SO2 are changed or unchanged, which the Board has omitted, since endnotes will serve no purpose in the Illinois regulations. includes a footnote "a," which includes a footnote "a" that indicates that the tabulated deadlines for event flagging and initial description for 2012 and 2013 data under the 2012 primary annual average NAAQS for PM2.5 are the same as those prescribed by 40 CFR 50.14 (corresponding with Section 243.105). The Board omitted those footnotes as unnecessary in the Illinois rules. Corresponding federal table 1 states that the 2012 primary annual average NAAQS for PM2.5 was "Promulgated December 14, 2012."2012". Although the Administrator of USEPA signed adopted rule on that date, publication did not occur until January 15, 2013. See 78 Fed. Reg. 3086, 3276 (Jan. 15, 2013). The Board has used the Federal Register citation and date cites the 2010 one-hour NAAOS for nitrogen oxides as "80-100 PPB, final level TBD" and the 2010 one-hour NAAOS for sulfur oxides as "80-100 PPB, final level TBD". The adopted 2010 one-hour NAAOS for NOx at 40 CFR 50.11(f) is 100 ppb and the adopted 2010 one-hour NAAOS for SO₂ is 75 ppb. The Board has used the actual NAAOS for these contaminants in this Table A. Further, corresponding table 1 to 40 CFR 50.14(c) includes endnotes "a" and "b" indicate whether dates for NO2 and SO2 are changed or unchanged, which the Board has omitted, since endnotes will serve no purpose in the Illinois regulations.

(Source: Amended at 37 Ill. Reg. _____, effective _____)

Document comparison by Workshare Compare on Friday, September 13, 2013 4:22:27 PM

Input:	
Document 1 ID	file://I:\Input\Agency Rulemakings - Files Received\2013\AUg2013\35-243-Agency(issue38).docx
Description	35-243-Agency(issue38)
Document 2 ID	file://I:\Input\Agency Rulemakings - Files Received\2013\AUg2013\35-243-r01(issue38).docx
Description	35-243-r01(issue38)
Rendering set	Standard

Legend:	
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Insertions	57	
Deletions	72	
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Style change	0	
Format changed	0	
Total changes	143	



1			TITLE 35: ENVIRONMENTAL PROTECTION
2			SUBTITLE B: AIR POLLUTION
3			CHAPTER I: POLLUTION CONTROL BOARD
4		SUBCH	APTER 1: AIR QUALITY STANDARDS AND EPISODES
5			
6			PART 243
7			AIR OUALITY STANDARDS
8			
9			SUBPART A: GENERAL PROVISIONS
10			
11	Section		
12	243.101	Definit	tions
13	243.102	Scope	
14	243,103	Applic	ability
15	243,104	Nonde	gradation (Repealed)
16	243 105	Air Ou	ality Monitoring Data Influenced by Exceptional Events
17	243 106	Monito	unity (Renealed)
18	243 107	Refere	nce Conditions
19	243 108	Incorp	orations by Reference
20	215.100	meorp	
21		SUBPA	RT B: STANDARDS AND MEASUREMENT METHODS
22		DODIT	IN D. BINNERD IND MENDORMENT METHODS
23	Section		
24	243.120	PMina	nd PM ₂ s
25	243 121	Particu	lates (Repealed)
26	243 122	Sulfur	Oxides (Sulfur Dioxide)
27	243 123	Carbor	Monoxide
28	243 124	Nitrog	en Oxides (Nitrogen Dioxide as Indicator)
20	243.125	Ozone	en oxides (runogen Dioxide as indicator)
30	243.125	Lead	
31	213.120	Dead	
32	243 APPEN	JDIX A	Rule into Section Table (Repealed)
33	243 APPEN	JDIX B	Section into Bule Table (Repealed)
34	243 APPEN	JDIX C	Past Compliance Dates (Renealed)
35	243 TABLE	ΞΔ	Schedule of Exceptional Event Flagging and Documentation Submission
36	243.171DL1	JA	for New or Revised NA AOS
37			In New of Revised WARQS
38	AUTHORI	TV. Impl	ementing Sections 7.2 and 10 and authorized by Section 27 of the
30	Environme	ntal Protec	tion Act [415 II CS 5/7.2 10 and 27]
40	Environme	lital I Tolee	tion Act [415 11C5 5/7.2, 10 and 27].
41	SOURCE	Adopted	as Chapter 2: Air Pollution Part III: Air Quality Standards in R71-23 4
42	PCB 101 f	iled and ef	fective April 14 1072: amended in R80-11 46 PCB 125 at 6 III Reg
43	5804 effect	tive Anril	22 1982: amended in R82-12 at 7 Ill Reg. 9906 effective August 18
45	5004, 01100	ave April.	$22, 1702, \text{ anonuou in Roz-12, at 7 m. Rog. 7700, \text{ circuive August 10},$

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	1992; amended in R09-19 at 35 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11
	at 37 III. Reg. 12882, effective July 29, 2013; amended in R14-6 at 37 III. Reg, effective
	SUBPART A: GENERAL PROVISIONS
	Section 243.107 Reference Conditions
and the state of the second	All measurements of air quality that are expressed as mass per unit volume (e.g., micrograms per cubic meter, other than for particulate matter ($PM_{2.5}$) standards contained in Section 243.120(b), and (c) and (d) and lead standards contained in Section 243.126(b), are corrected to a reference temperature of 25° C, and to a reference pressure of 760 millimeters of mercury (1013.2 millibars). Measurements of $PM_{2.5}$, for purposes of comparison to the standards contained in
	Section 243.120(b)and (c) and (d), and lead, for purposes of comparison to the standards
	contained in Section 243.126(b), must be reported based upon the actual ambient air volume
	measured at the actual temperature and pressure at the monitoring site during the measurement
	period.
	BOARD NOTE: Derived from 40 CER 50.2 (20122012)
	BOARD NOTE. Derived from 40 CFR 50.5 (20152012).
	(Source: Amended at 37 III Reg effective)
	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.goo.gov)
	The following documents incorporated by reference are available from this
	source:
	JOM VVI
	Appendix A-1 to 40 CFR 50 (2013)(2012) (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 (2013)(2012) (Reference Method for the
	Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline
	Method)), referenced in Section 243.122.

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86	Appendix B to 40 CFR 50 (2013)(2012) (Reference Method for the
87	Determination of Suspended Particulate Matter in the Atmosphere (High-
88	Volume Method)), referenced in appendix G to 40 CFR 50 (see below).
89	
90	Appendix C to 40 CFR 50 (2013)(2012) (Reference Measurement
91	Principle and Calibration Procedure for the Measurement of Carbon
92	Monoxide in the Atmosphere (Non-Dispersive Infrared Photometry)).
93	referenced in Section 243.123.
94	
95	Appendix D to 40 CFR 50 (2013)(2012) (Reference Measurement
96	Principle and Calibration Procedure for the Measurement of Ozone in the
97	Atmosphere), referenced in Section 243,125.
98	
99	Appendix F to 40 CFR 50 (2013)(2012) (Reference Measurement
100	Principle and Calibration Procedure for the Measurement of Nitrogen
101	Dioxide in the Atmosphere (Gas Phase Chemiluminescence)), referenced
102	in Section 243,124.
103	
104	Appendix G to 40 CFR 50 (2013), as amended at 78 Fed. Reg. 40000
105	(July 3, 2013)(2012) (Reference Method for the Determination of Lead in
106	Suspended Particulate Matter Collected from Ambient Air), referenced in
107	Section 243.126.
108	
109	Appendix H to 40 CFR 50 (2013)(2012) (Interpretation of the 1-Hour
110	Primary and Secondary National Ambient Air Quality Standards for
111	Ozone) referenced in Section 243 125
112	
113	Appendix I to 40 CFR 50 (2013)(2012) (Interpretation of the 8-Hour
114	Primary and Secondary National Ambient Air Quality Standards for
115	Ozone), referenced in Section 243,125.
116	
117	Appendix J to 40 CFR 50 (2013)(2012) (Reference Method for the
118	Determination of Particulate Matter as PM_{10} in the Atmosphere).
119	referenced in Section 243,120
120	
121	Appendix K to 40 CFR 50 (2013)(2012) (Interpretation of the Primary and
122	Secondary National Ambient Air Quality Standards for Particulate
123	Matter) referenced in Section 243 120
124	
125	Appendix L to 40 CFR 50 (2013)(2012) (Reference Method for the
126	Determination of Fine Particulate Matter as PMas in the Atmosphere)
127	referenced in Section 243 120
128	
120	

129	Appendix N to 40 CFR 50 (2013), as amended at 78 Fed. Reg. 47191
130	(August 5, 2013)(2012) (Interpretation of the Primary and Secondary
131	National Ambient Air Quality Standards for Particulate Matter),
132	referenced in Section 243.120.
133	
134	Appendix O to 40 CFR 50 (2013)(2012) (Reference Method for the
135	Determination of Coarse Particulate Matter as PM _{10-2.5} in the
136	Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in
137	federally required monitoring by the NCore system pursuant to 40 CFR
138	58.
139	
140	Appendix P to 40 CFR 50 (2013)(2012) (Interpretation of the Primary and
141	Secondary National Ambient Air Quality Standards for Ozone),
142	referenced in Section 243.125.
143	
144	Appendix Q to 40 CFR 50 (2013)(2012) (Reference Method for the
145	Determination of Lead in Particulate Matter as PM ₁₀ Collected from
146	Ambient Air), referenced in appendix R to 40 CFR 50.
147	
148	Appendix R to 40 CFR 50 (2013)(2012) (Interpretation of the National
149	Ambient Air Quality Standards for Lead), referenced in Section 243.126.
150	
151	Appendix S to 40 CFR 50 (2013)(2012) (Interpretation of the Primary
152	National Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen
153	Dioxide)), referenced in Section 243.124.
154	
155	Appendix T to 40 CFR 50 (2013)(2012) (Interpretation of the Primary
156	National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur
157	Dioxide)), referenced in Section 243.122.
158	
159	Clean Air Act, 42 USC 7401 et seq. (2011) (for definitions of terms only),
160	referenced in Section 243.102.
161	
162	BOARD NOTE: Segments of the Code of Federal Regulations and the United
163	States Code are available for free download as PDF documents from the GPO
164	FDsys website: http://www.gpo.gov/fdsys/.
165	
166	USEPA, National Exposure Research Laboratory, Human Exposure &
167	Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC
168	27711. The following documents incorporated by reference are available from
169	this source:
170	

171			"List of Designated Reference and Equivalent Methods" (June 27, 2012) (referred to as the "List of Designated			
172	<u>2013)(December 17, 2012)</u> (referred to as <u>the</u> "List of Designated Methods" and referenced in Sections 243.101, 243.120, 243.122, 243.12					
173	Methods" and referenced in Sections 243.101, 243.120, 243.122, 243.12 243.124, 243.125, and 243.126 This reference includes, as an FEM, the					
174	243.124, 243.125, and 243.126 This reference includes, as an FEM, th former codified FRM that USEPA designated an FEM in the following					
175	former codified FRM that USEPA designated an FEM in the followin Federal Register noticenotices subsequent to June 27, 2013December					
176	Federal Register <u>noticenotices</u> subsequent to <u>June 27, 2013</u> December 2012 that updated List of Designated Methods.					
177	2012 that updated List of Designated Methods.					
178						
179			78 Fed. Reg. 40000 (July 3, 2013) (designating the former FRM in			
180			appendix G of 40 CFR 50 as an FEM).			
181						
182			BOARD NOTE: The List of Designated Methods This document is			
183	available for free download as a PDF document from the USEPA,					
184	Technology Transfer, Ambient Monitoring Technology Information					
185			Center website: http://www.epa.gov/ttn/amtic/criteria.html.			
186						
187	(Sou	irce: An	nended at 37 Ill. Reg, effective)			
188						
189		SUBE	ART B: STANDARDS AND MEASUREMENT METHODS			
190						
191	Section 243	.120 PI	M10 and PM2.5			
192						
193	a)	1987	Primary and Secondary 24-Hour NAAQS for PM ₁₀ .			
194						
195		1)	The level of the 1987 primary and secondary 24-hour NAAQS for PM ₁₀ is			
196			150 µg/m ³ , 24-hour average concentration. The 1987 primary and			
197			secondary NAAQS for PM ₁₀ is attained when the expected number of			
198			days per calendar year with a 24-hour average concentration above 150			
199			μ g/m ³ , as determined in accordance with appendix K to 40 CFR 50,			
200			incorporated by reference in Section 243.108, is equal to or less than one.			
201						
202		2)	This subsection (a)(2) corresponds with 40 CFR 51.6(b), a provision			
203			marked "reserved" by USEPA. This statement maintains structural			
204			consistency with the corresponding federal regulation.			
205						
206		3)	For the purpose of determining attainment of the 1987 primary and			
207			secondary 24-hour NAAQS for PM ₁₀ , particulate matter must be measured			
208			in the ambient air as PM ₁₀ by a method that fulfills either of the following			
209			requirements:			
210						
211			A) An FRM based on appendix J to 40 CFR 50, incorporated			
212			by reference in Section 243.108, and designated by USEPA			

		ICA D250242 1215214 01					
		JCAR350243-1315314r01					
.13		and listed in List of Designated Methods, incorporated by					
.14		reference in Section 243.108; or					
15							
16	B)	An FEM designated by USEPA and listed in the List of Designated					
17		Methods, incorporated by reference in Section 243.108.					
18							
9	BOARD N	IOTE: This subsection (a) is derived from 40 CFR 50.6					
0	(2013)(201	2). USEPA adopted 1997 primary NAAQS for PM ₁₀ at 62 Fed. Reg.					
l -	38652 (Jul	y 18, 1997). As a result of a judicial vacatur, USEPA later removed the					
	transitional	l provision relative to the 1987 NAAQS at 65 Fed. Reg. 80776 (Dec.					
	22, 2000) a	and the 1997 NAAQS at 69 Fed. Reg. 45595 (July 30, 2004). Thus, the					
	1987 prima	ary and secondary NAAQS for PM ₁₀ are included in this subsection (a).					
	- 0.00						
b)	1997 Prim	ary and Secondary Annual Average and 24-Hour NAAQS for PM _{2.5} .					
l.	1) The	e 1997 primary and secondary annual average NAAQS for PM2.5 is					
	15.	$0 \mu g/m^3$, annual arithmetic mean concentration, and the 1997 primary					
	and	and secondary 24-hour NAAQS for $PM_{2.5}$ is 65 µg/m ³ , 24-hour average					
	con	concentration, measured in the ambient air as PM _{2.5} by a method that					
	fult	fulfills either of the following requirements:					
	A)	An FRM based on appendix L of 40 CFR 50, incorporated by					
	1	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	e 1997 primary and secondary annual average NAAOS for PM _{2.5} is met					
	wh	en the annual arithmetic mean concentration, as determined in					
P	acc	ordance with appendix N of 40 CFR 50, incorporated by reference in					
5	Section 243.108, is less than or equal to 15.0 μ g/m ³ .						
6	2.4						
7	3) The	e 1997 primary and secondary 24-hour NAAOS for PM25 is met when					
8	the	98 th percentile 24-hour concentration, as determined in accordance					
9	wit	h appendix N of 40 CFR 50 incorporated by reference in Section					
0	243	3.108 is less than or equal to 65 µg/m ³					
1	215	in the set of the set					
2	BOARDN	IOTE: This subsection (b) is derived from 40 CFR 50.7					
3	(2013)(201	The 2006 primary and secondary annual average and 24-hour					
	NAAOS fo	PM_2 s differs from the 1997 standards in that the 24-hour average					
	THE TO IL	a main and a main and a standards in that the 27-nour average					

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256		stringent) than that for the 1997 standard. The Board has retained the 1997		
257		standard in this subsection (b) because USEPA has retained the 1997 standard in		
258		40 CFR 50.6.		
259				
260	c)	2006 Primary and Secondary Annual Average and 24-Hour NAAQS for PM2.5.		
261	÷.			
262		1) The 2006 primary and secondary annual average NAAQS for PM _{2.5} is		
263		15.0 μ g/m ³ , annual arithmetic mean concentration, and the 2006 primary		
264		and secondary 24-hour NAAQS for PM2.5 is 35 µg/m ³ , 24-hour average		
265		concentration, measured in the ambient air as PM2.5 by a method that		
266		fulfills either of the following requirements:		
267				
268		A) An FRM based on appendix L of 40 CFR 50, incorporated by		
269		reference in Section 243.108, and designated by USEPA and listed		
270		in the List of Designated Methods, incorporated by reference in		
271		Section 243.108; or		
272				
273		B) An FEM designated by USEPA and listed in the List of Designated		
274		Methods, incorporated by reference in Section 243.108.		
275				
276		2) The 2006 primary and secondary annual average NAAOS for PM _{2.5} is met		
277		when the annual arithmetic mean concentration, as determined in		
278		accordance with appendix N of 40 CFR 50 incorporated by reference in		
279		Section 243 108 is less than or equal to 15.0 µg/m^3		
280		beenon 2 15.100, is less than of equal to 15.0 µB/m .		
281		3) The 2006 primary and secondary 24-hour NAAOS for PM ₂₅ is met when		
282		the 98 th percentile 24-hour concentration as determined in accordance		
283		with appendix N of 40 CFR 50 incorporated by reference in Section		
284		$243 \ 108$ is less than or equal to $35 \ \mu g/m^3$		
285		215.100, 15 1055 than of equal to 55 µg/m.		
286		BOARD NOTE: This subsection (c) is derived from 40 CFR 50 13 (2013)(2012)		
287				
288	(b	2012 Primary Annual Average and 24-Hour NAAOS for PM25		
289	<u>u</u>	2012 Thinking William Profage and 27 Hoar Willigo for TW2.5		
200		1) The 2012 primary annual average NAAOS for PM ₂ s is $12.0 \mu g/m^3$ annual		
201		arithmetic mean concentration and the 2012 primary 24-hour NAAOS for		
202		PM_{2} is 35 µg/m ³ 24-hour average concentration measured in the ambient		
292		$\frac{1}{102.5}$ is 55 µg/m ² 24-hour average concentration, measured in the amolent air as PM ₂ , by a method that fulfills either of the following requirements:		
201		an as 1 wi2.5 by a method that furthis cluter of the following requirements.		
294		(A) An EPM based on anneadiv L of 40 CEP 50 incorporated by		
295		reference in Section 243 108 and designated by USEDA and listed		
290		in List of Designated Mathada, incomparated by unformation		
297		In List of Designated Methods, incorporated by reference in Section 242 108; or		
298		<u>Section 245.108; or</u>		

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299					
300			B) An FEM designated by USEPA and listed in List of Designated		
301			Methods, incorporated by reference in Section 243.108.		
302					
303		2)	The 2012 primary annual NAAOS for PM _{2.5} is met when the annual		
304		-	arithmetic mean concentration, as determined in accordance with appendix		
305			N of 40 CFR 50, incorporated by reference in Section 243.108, is less than		
306			or equal to 12.0 $\mu g/m^3$.		
307					
308		3)	The 2012 primary 24-hour NAAOS for PM ₂₅ is met when the 98 th		
309			percentile 24-hour concentration, as determined in accordance with		
310			appendix N of 40 CFR 50, incorporated by reference in Section 243,108.		
311			is less than or equal to $35 \mu\text{g/m}^3$.		
312					
313	BOA	RD NO	TE: This subsection (d) is derived from 40 CFR 50.13 (2013).		
314					
315	(Sour	ce: An	nended at 37 Ill, Reg. effective)		
316	(
317	Section 243.	122 Su	llfur Oxides (Sulfur Dioxide)		
318					
319	a)	1971	Primary Annual Average and 24-Hour NAAOS for Sulfur Oxides (as Sulfur		
320		Dioxide (SO2)).			
321		Dioxide (502)).			
322		1)	The level of the 1971 primary annual average NAAOS for sulfur oxides is		
323		~	0.030 ppm, not to be exceeded in a calendar year. The annual arithmetic		
324			mean must be rounded to three decimal places (fractional parts equal to or		
325			greater than 0.0005 ppm must be rounded up).		
326			Bromer ment eroose blem miner ee romineen ub).		
327		2)	The level of the 1971 primary 24-hour NAAOS for sulfur oxides is 0.14		
328		-)	ppm not to be exceeded more than once per calendar year. The 24-hour		
329			averages must be determined from successive non-overlapping 24-hour		
330			blocks starting at midnight each calendar day and must be rounded to two		
331			decimal places (fractional parts equal to or greater than 0.005 ppm must be		
332			rounded up)		
333			Toundou up).		
334		3)	Sulfur oxides must be measured in the ambient air as SO ₂ by the FRM		
335		5)	described in appendix A-2 to 40 CFR 50 incorporated by reference in		
336			Section 243 108 or by an FEM designated by USEPA and listed in the		
337			List of Designated Methods incorporated by reference in Section 243 108		
338			List of Designation fromous, moorporation by forefore in Section 245.100.		
330		4)	To demonstrate attainment, the annual arithmetic mean and the second-		
340		1)	highest 24-hour averages must be based upon hourly data that are at least		
341			75 percent complete in each calendar quarter A 24-hour block average		
541			is percent complete in cach calendar quarter. A 24-nour block average		

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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 24hour average. In this case, the 24-hour block average must be computed as the sum of the available hourly averages divided by 24.

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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 NAAOS 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 NAAOS. 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 NAAOS for sulfur oxides. As of December 31, 2012. USEPA had not yet 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). See 40 CFR 81.314 (2012). The 1971 primary annual average and 24hour NAAOS 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. The Agency recommended that USEPA designate limited areas of Illinois as nonattainment with the 2010 primary one-hour NAAQS. See letter of June 2. 2011 from Laurel Kroack, Chief, Bureau of Air, Agency, to Cheryl A. Newton, Director, Office of the Air and Radiation Division, USEPA

385		Region 5 (available at http://www.epa.gov/so2designations/recletters/
386		R5-IL rec wtechanalysis.pdf). The 1971 primary annual average and 24-
387		hour NAAQS for sulfur oxides will no longer apply to those two
388		designated areas effective October 4, 2014; although the NAAQS will
389		continue to apply to all other areas of Illinois after that date. When the
390		conditions of this subsection (a)(5) have been fulfilled as to all areas of
391		Illinois, or USEPA has removed 40 CFR 50.4, the Board will remove the
392		standard of this subsection (a) as obsolete.
393		
394		BOARD NOTE: This subsection (a) is derived from 40 CFR 50.4 (2012).
395		
396	b)	1971 Secondary Three-Hour NAAOS for Sulfur Oxides (as SO ₂).
397	-/	
398		1) The level of the 1971 secondary three-hour NAAOS for sulfur oxides is
399		0.5 ppm, not to be exceeded more than once per calendar year. The three-
400		hour averages must be determined from successive non-overlapping three-
401		hour blocks starting at midnight each calendar day and must be rounded to
402		one decimal place (fractional parts equal to or greater than 0.05 ppm must
403		be rounded up).
404		
405		2) Sulfur oxides must be measured in the ambient air as SO ₂ by the FRM
406		described in appendix A-2 to 40 CFR 50, incorporated by reference in
407		Section 243,108, or by an FEM designated by USEPA and listed in List of
408		Designated Methods, incorporated by reference in Section 243.108
409		
410		3) To demonstrate attainment, the second-highest three-hour average must be
411		based upon hourly data that are at least 75 percent complete in each
412		calendar quarter. A three-hour block average must be considered valid
413		only if all three hourly averages for the three-hour period are available. If
414		only one or two hourly averages are available, but the three-hour average
415		would exceed the level of the standard when zeros are substituted for the
416		missing values, subject to the rounding rule of subsection $(b)(1)$ of this
417		Section this must be considered a valid three-hour average. In all cases
418		the three-hour block average must be computed as the sum of the hourly
419		averages divided by three
420		uvolugos alviada oy unos.
421		BOARD NOTE: This subsection (b) is derived from 40 CFR 50 5-(2012)
422		
423	c)	2010 Primary One-Hour NAAOS for Sulfur Oxides (as SO2)
424		2010 I mary one from the record outer on deb (ab 002).
425		1) The level of the 2010 primary one-hour NAAOS for sulfur oxides is 75
426		npb measured in the ambient air as SO ₂
427		ppo, moustion in the amount an aboot.

428	2) The 2010 one-hour primary NAAQS for sulfur oxides is met at an ambient		
429	air quality monitoring site when the three-year average of the annual (99 th		
430	percentile) of the daily maximum one-hour average concentrations is less		
431	than or equal to 75 ppb, as determined in accordance with appendix T of		
432	40 CFR 50, incorporated by reference in Section 243.108.		
433			
434	3) The level of the 2010 one-hour primary NAAQS for sulfur oxides must be		
435	measured by an FRM based on appendix A-1 or A-2 of 40 CFR 50,		
436	incorporated by reference in Section 243.108, or by an FEM designated by		
437	USEPA and listed in List of Designated Methods, incorporated by		
438	reference in Section 243.108.		
439			
440	BOARD NOTE: This subsection (c) is derived from 40 CFR 50.17-(2012). The		
441	1971 primary NAAQS for SO2 remains in effect until the federal conditions of 40		
442	CFR 50.4(e) have been fulfilled, as outlined in subsection (a)(5) of this Section		
443	and the appended Board note.		
444			
445	(Source: Amended at 37 Ill. Reg., effective)		
446			

Section 243.TABLE A Schedule of Exceptional Event Flagging and Documentation Submission for New or Revised NAAQS 447 448

449

NAAQS (Level) Regulatory Citations	Air quality data collected for calendar year	Event flagging & initial description deadline	Detailed documentation submission deadline
2006 24-hour PM _{2.5} (35 μg/m ³) Section 243.120(c)(1) 40 CFR 50.13(a) 71 Fed. Reg. 61144 (Oct. 17, 2006)	2004-2006	October 1, 2007	April 15, 2008
2008 eight-hour ozone (0.075 ppm) Section 243.125(c)(1) 40 CFR 50.15(a) 73 Fed. Reg. 16436 (Mar. 27, 2008)	2005-2007 2008 2009	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first
2010 one-hour nitrogen oxides (as NO ₂) (100 ppb) Section 243.124(b) 40 CFR 50.11(b) 75 Fed. Reg. 6474 (Feb. 9, 2010)	2008 2009 2010	July 1, 2010 July 1, 2010 April 1, 2011	January 22, 2011 January 22, 2011 July 1, 2010
2010 one-hour sulfur oxides (as SO ₂) (75 ppb) Section 243.122(c)(1) 40 CFR 17(a) 75 Fed. Reg. 35520 (June 22, 2010)	2008 2009 2010 2011	October 1, 2010 October 1, 2010 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first	June 1, 2011 June 1, 2011 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occured first
2012 annual PM _{2.5} (12 μg/m ³) Section 243.120(d)(1) 40 CFR 50.18(a) 78 Fed. Reg. 3086 (Jan. 15, 2013)	2010 and 2011 2012 2013	July 1, 2013 July 1, 2013 July 1, 2014	December 12, 2013 December 12, 2013 August 1, 2014

451 BOARD NOTE: Derived from table 1 to 40 CFR 50.14(c) (2012). USEPA noted that the 452 information in this table of revised deadlines only applies to data that USEPA will use to 453 establish the final-initial area designations for new or revised NAAQS. USEPA stated that the 454 general schedule in this table applies for all other purposes, most notably, for data that USEPA 455 will use for redesignations to attainment. Corresponding table 1 to 40 CFR 50.14(c)(2) includes 456 a footnote "a" that indicates that the tabulated deadlines for event flagging and initial description 457 for 2012 and 2013 data under the 2012 primary annual average NAAOS for PM₂₅ are the same 458 as those prescribed by 40 CFR 50.14 (corresponding with Section 243.105). The Board omitted 459 those footnotes as unnecessary in the Illinois rules. Corresponding federal table 1 states that the 2012 primary annual average NAAOS for PM2 5 was "Promulgated December 14, 2012". 460 461 Although the Administrator of USEPA signed adopted rule on that date, publication did not 462 occur until January 15, 2013. See 78 Fed. Reg. 3086, 3276 (Jan. 15, 2013). The Board has used 463 the Federal Register citation and date-cites the 2010 one-hour NAAOS for nitrogen oxides as 464 "80-100 PPB, final level TBD" and the 2010 one hour NAAOS for sulfur oxides as "80-100 PPB. final level TBD". The adopted 2010 one-hour NAAQS for NOx at 40 CFR 50.11(f) is 100 465 466 ppb and the adopted 2010 one-hour NAAOS for SO₂ is 75 ppb. The Board has used the actual 467 NAAQS for these contaminants in this Table A. Further, corresponding table 1 to 40 CFR 50.14(c) includes endnotes "a" and "b" indicate whether dates for NO2 and SO2 are changed or 468 469 unchanged, which the Board has omitted, since endnotes will serve no purpose in the Illinois 470 regulations. 471 (Source: Amended at 37 Ill. Reg., effective 472

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