



## OFFICE OF THE SECRETARY OF STATE

JESSE WHITE • Secretary of State

December 9, 2013

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DEC 16 2013

POLLUTION CONTROL BOARD  
JOHN THERRIault ASSISTANT CLERK  
100 W RANDOLPH ST, STE 11-500  
CHICAGO, IL 60601

STATE OF ILLINOIS  
*Pollution Control Board*

Dear JOHN THERRIault ASSISTANT CLERK

Your rules Listed below met our codification standards and have been published in Volume 37, Issue 50 of the Illinois Register, dated 12/13/2013.

### ADOPTED RULES

Definitions and General Provisions

35 Ill. Adm. Code 211

Point of Contact: Mike McCambridge

19824

R147

Air Quality Standards

35 Ill. Adm. Code 243

Point of Contact: Mike McCambridge

19848

R146

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

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## POLLUTION CONTROL BOARD

## NOTICE OF ADOPTED AMENDMENTS

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

<u>Section numbers:</u>	<u>Adopted action:</u>
243.107	Amend
243.108	Amend
243.120	Amend
243.122	Amend
243.Table A	Amend
- 4) Statutory authority: 415 ILCS 5/7.2, 10, and 27.
- 5) Effective date of amendments: NOV 27 2013
- 6) Does this rulemaking contain an automatic repeal date? No.
- 7) Do these amendments contain incorporations by reference? Yes.
- 8) Statement of availability: The adopted amendments, a copy of the Board's opinion and order adopted November 21, 2013 in docket R14-6, and all materials incorporated by reference are on file at the Board's principal office and are available for public inspection and copying.
- 9) Notice of proposal published in the Illinois Register: September 20, 2013, 37 Ill. Reg. 15314
- 10) Has JCAR issued a statement of objections to these rules? No. 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 (JCAR).
- 11) Differences between the proposal and the final version: A table that appears in the Board's opinion and order of November 21, 2013 in docket R14-6 summarizes the differences between the amendments adopted in that order and those proposed by the Board in an opinion and order dated September 5, 2013, in docket R14-6. Many of the differences are explained in greater detail in the Board's opinion and order adopting the amendments.

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The differences are limited to minor, non-substantive revisions, including one change in citation format, addition of two commas, and one correction to spelling. The changes are intended to have no substantive effect. The intent is to add clarity to the rules without deviation from the substance of the federal amendments on which this proceeding is based.

- 12) Have all the changes agreed upon by the board and JCAR been made as indicated in the agreements issued by JCAR? 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 JCAR.

Since the Notices of Proposed Amendments appeared in the September 20, 2013 issue of the *Illinois Register*, the Board received a number of suggestions for revisions from JCAR. The Board evaluated each suggestion and incorporated a number of changes into the text as a result, as detailed in the opinion and order of November 21, 2013 in docket R14-6, as indicated in item 11 above. See the November 21, 2013 opinion and order in docket R14-6 for additional details on the JCAR suggestions and the Board actions with regard to each. One table in that opinion itemizes the changes made in response to various suggestions. Another table indicates JCAR suggestions not incorporated into the text, with a brief explanation for each.

- 13) Will these amendments replace emergency amendments currently in effect? No
- 14) Are there any other amendments pending on this Part? No.
- 15) Summary and purpose of amendments: 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, adopting amendments in docket R14-6, which opinion and order is available from the address below.

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:

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January 15, 2013  
(78 Fed. Reg. 3086) USEPA adopted new 2012 primary 24-hour and annual average NAAQS for PM<sub>2.5</sub>. USEPA further revised the interpretation of the NAAQS for PM<sub>2.5</sub>.

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  
(78 Fed. Reg. 40000) USEPA amended appendix G to 40 C.F.R. 50 to establish a new federal reference method (FRM) for measuring lead in total suspended particulate matter for the purposes of the lead NAAQS.

August 5, 2013  
(78 Fed. Reg. 47191) USEPA made area designations for the 2010 NAAQS for sulfur dioxide.

Tables appear in the Board's opinion and order of September 20, 2013 in docket R14-6 that list a limited correction that is numerous corrections and amendments that are not 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 November 21, 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 (JCAR).

- 16) Information and questions regarding these adopted amendments shall be directed to:  
Please reference consolidated docket R14-6 and direct inquiries to the following person:

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

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Chicago, IL 60601

312-814-6924

Request copies of the Board's opinion and order of November 21, 2013 at 312-814-3620. Alternatively, you may obtain a copy of the Board's opinion and order from the Internet at <http://www.ipcb.state.il.us>.

The full text of the adopted amendments 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	PM <sub>10</sub> and PM <sub>2.5</sub>
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, 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;

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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. \_\_\_\_\_, 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<sub>2.5</sub>) 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<sub>2.5</sub>, 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 CFR 50.3-(2012) (2013).

(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](http://www.gpo.gov)). The following documents incorporated by reference are available from this source:

Appendix A-1 to 40 CFR 50-(2012) (2013) (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-(2012) (2013) (Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method)), referenced in Section 243.122.

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Appendix B to 40 CFR 50-~~(2012)~~ (2013) (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) (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) (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) (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) (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) (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) (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-~~(2012)~~ (2013) (Reference Method for the Determination of Particulate Matter as PM<sub>10</sub> in the Atmosphere), referenced in Section 243.120.

Appendix K to 40 CFR 50-~~(2012)~~ (2013) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Particulate Matter), referenced in Section 243.120.

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Appendix L to 40 CFR 50-~~(2012)~~ (2013) (Reference Method for the Determination of Fine Particulate Matter as PM<sub>2.5</sub> 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) (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-~~(2012)~~ (2013) (Reference Method for the Determination of Coarse Particulate Matter as PM<sub>10-2.5</sub> 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) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix Q to 40 CFR 50-~~(2012)~~ (2013) (Reference Method for the Determination of Lead in Particulate Matter as PM<sub>10</sub> Collected from Ambient Air), referenced in appendix R to 40 CFR 50.

Appendix R to 40 CFR 50-~~(2012)~~ (2013) (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.

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

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/fdsys/>.

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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 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.

This reference includes, as an FEM, the ~~no longer~~ former codified FRM that USEPA designated an FEM in the following Federal Register notices-notice subsequent to 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 of 40 CFR 50 as an FEM).

BOARD NOTE: ~~This document~~ 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 37 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART B: STANDARDS AND MEASUREMENT METHODS

**Section 243.120 PM<sub>10</sub> and PM<sub>2.5</sub>**

- a) 1987 Primary and Secondary 24-Hour NAAQS for PM<sub>10</sub>.
  - 1) The level of the 1987 primary and secondary 24-hour NAAQS for PM<sub>10</sub> is 150 µg/m<sup>3</sup>, 24-hour average concentration. The 1987 primary and secondary NAAQS for PM<sub>10</sub> is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m<sup>3</sup>, 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 “reserved” by USEPA. This statement maintains structural consistency with the corresponding federal regulation.

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- 3) For the purpose of determining attainment of the 1987 primary and secondary 24-hour NAAQS for PM<sub>10</sub>, particulate matter must be measured in the ambient air as PM<sub>10</sub> 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 ~~(2012)~~ (2013). USEPA adopted 1997 primary NAAQS for PM<sub>10</sub> 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 PM<sub>10</sub> are included in this subsection (a).

- b) 1997 Primary and Secondary Annual Average and 24-Hour NAAQS for PM<sub>2.5</sub>.
- 1) The 1997 primary and secondary annual average NAAQS for PM<sub>2.5</sub> is 15.0 µg/m<sup>3</sup>, annual arithmetic mean concentration, and the 1997 primary and secondary 24-hour NAAQS for PM<sub>2.5</sub> is 65 µg/m<sup>3</sup>, 24-hour average concentration, measured in the ambient air as PM<sub>2.5</sub> 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<sub>2.5</sub> 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/m<sup>3</sup>.

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- 3) The 1997 primary and secondary 24-hour NAAQS for PM<sub>2.5</sub> 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/m<sup>3</sup>.

BOARD NOTE: This subsection (b) is derived from 40 CFR 50.7-(2012) (2013). The 2006 primary and secondary annual average and 24-hour NAAQS for PM<sub>2.5</sub> 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<sub>2.5</sub>.
- 1) The 2006 primary and secondary annual average NAAQS for PM<sub>2.5</sub> is 15.0 µg/m<sup>3</sup>, annual arithmetic mean concentration, and the 2006 primary and secondary 24-hour NAAQS for PM<sub>2.5</sub> is 35 µg/m<sup>3</sup>, 24-hour average concentration, measured in the ambient air as PM<sub>2.5</sub> 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 PM<sub>2.5</sub> 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/m<sup>3</sup>.
- 3) The 2006 primary and secondary 24-hour NAAQS for PM<sub>2.5</sub> 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/m<sup>3</sup>.

BOARD NOTE: This subsection (c) is derived from 40 CFR 50.13-(2012) (2013).

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d) 2012 Primary Annual Average and 24-Hour NAAQS for PM<sub>2.5</sub>

- 1) The 2012 primary annual average NAAQS for PM<sub>2.5</sub> is 12.0 µg/m<sup>3</sup> annual arithmetic mean concentration, and the 2012 primary 24-hour NAAQS for PM<sub>2.5</sub> is 35 µg/m<sup>3</sup> 24-hour average concentration, measured in the ambient air as PM<sub>2.5</sub> 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 PM<sub>2.5</sub> 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/m<sup>3</sup>.
- 3) The 2012 primary 24-hour NAAQS for PM<sub>2.5</sub> 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/m<sup>3</sup>.

BOARD NOTE: This subsection (d) is derived from 40 CFR 50.13 (2013).

(Source: Amended at 37 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 (SO<sub>2</sub>)).
  - 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

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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 SO<sub>2</sub> 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.

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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 NAAQS 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). 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/so2designations/recletters/R5\\_IL\\_rec\\_wtechanalysis.pdf](http://www.epa.gov/so2designations/recletters/R5_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).

- b) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO<sub>2</sub>).
- 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 SO<sub>2</sub> 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

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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 SO<sub>2</sub>).
- 1) The level of the 2010 primary one-hour NAAQS for sulfur oxides is 75 ppb, measured in the ambient air as SO<sub>2</sub>.
  - 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-(2012). The 1971 primary NAAQS for SO<sub>2</sub> 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 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 <sub>2.5</sub> (35 µg/m <sup>3</sup> ) 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 <sub>2</sub> ) (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

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2010 one-hour sulfur oxides (as SO <sub>2</sub> ) (75 ppb)	2008 2009 2010	October 1, 2010 October 1, 2010 June 1, 2011	June 1, 2011 June 1, 2011 June 1, 2011
Section 243.122(c)(1) 40 CFR 17(a) 75 Fed. Reg. 35520 (June 22, 2010)	2011	60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first	60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first
<u>2012 annual PM<sub>2.5</sub> (12 µg/m<sup>3</sup>)</u>	<u>2010 and 2011</u> <u>2012</u>	<u>July 1, 2013</u> <u>July 1, 2013</u>	<u>December 12, 2013</u> <u>December 12, 2013</u>
<u>Section 243.120(d)(1) 40 CFR 50.18(a) 78 Fed. Reg. 3086 (Jan. 15, 2013)</u>	<u>2013</u>	<u>July 1, 2014</u>	<u>August 1, 2014</u>

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 2010 one-hour NAAQS for sulfur oxides as “80-100 PPB, final level TBD.” The adopted 2010 one-hour NAAQS for NO<sub>x</sub> at 40 CFR 50.11(f) is 100 ppb and the adopted 2010 one-hour NAAQS for SO<sub>2</sub> 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 NO<sub>2</sub> and SO<sub>2</sub> are changed or unchanged, which the Board has omitted, since endnotes will serve no purpose in the Illinois regulations. includes a footnote “a,” which indicates that the tabulated deadlines for event flagging and initial description for 2012 and 2013 data under the 2012 primary annual average NAAQS for PM<sub>2.5</sub> 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 PM<sub>2.5</sub> was “Promulgated December 14, 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.~~

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