



## OFFICE OF THE SECRETARY OF STATE

JESSE WHITE • Secretary of State

August 28, 2020

POLLUTION CONTROL BOARD  
DON BROWN  
100 W RANDOLPH ST  
STE 11-500  
CHICAGO, IL 60601

Dear DON BROWN

Your rules Listed below met our codification standards and have been published in Volume 44, Issue 36 of the Illinois Register, dated 9/4/2020.

### ADOPTED RULES

Organization, Public Information, and Types of Proceedings 2 Ill. Adm. Code 2175 Point of Contact: Shannon Bilbruck	14166
Definitions and General Provisions 35 Ill. Adm. Code 211 Point of Contact: Michael McCambridge	14199
Air Quality Standards 35 Ill. Adm. Code 243 Point of Contact: Michael McCambridge	14223

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

ILLINOIS REGISTER

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 Actions:</u>
243.108	Amendment
243.120	Amendment
243.122	Amendment
243.123	Amendment
243.124	Amendment
243.126	Amendment
- 4) Statutory Authority: 415 ILCS 5/7.2, 10, and 27.
- 5) Effective date of rule: **AUG 18 2020**
- 6) Does this rulemaking contain an automatic repeal date? No.
- 7) Does this rulemaking contain incorporations by reference? Yes
- 8) Statement of availability: The adopted rulemaking, a copy of the Board's opinion and order adopted August 13, 2020 in consolidated docket R19-14/R20-3/R20-11, 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: 44 Ill. Reg. 9330; June 5, 2020
- 10) Has JCAR issued a Statement of Objections to these rules? 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: The differences between the amendment adopted August 13, 2020 in consolidated docket R19-14/R20-3/R20-11 and those proposed by the Board in an opinion and order dated May 21, 2020 are limited to minor corrections that have no substantive effect. The Board listed the changes in a document entitled, "Identical-in-Substance Rulemaking Addendum (Final) to the August 13, 2020 Opinion and Order of the Board" (IIS-RA(P)) that the Board added to consolidated docket R19-14/R20-3/R20-11.

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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

- 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.
- 13) Will this rulemaking replace an emergency rule currently in effect? No
- 14) Are there any other rulemakings pending on this Part? No
- 15) Summary and purpose of rulemaking: 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 July 13, 2020, adopting amendments in consolidated docket R19-14/R20-3/R20-11, which opinion and order is available from the address below.

The consolidated R19-14/R20-3/R20-11 proceeding relates to the Illinois ambient air quality requirements in 35 Ill. Adm. Code 243 of the Illinois air pollution control rules. This amendment would update the Illinois ambient air quality requirements to correspond with amendments to the federal National Ambient Air Quality Standards (NAAQSs) that the United States Environmental Protection Agency (USEPA) adopted during the second half of 2018 through the end of 2019.

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

- |   |   |
|---|---|
| October 16, 2018<br>(83 Fed. Reg. 52157)  | USEPA corrected the November 16, 2017 and June 4, 2018 area designations for the 2015 NAAQS for ozone (O <sub>3</sub> ). USEPA omitted McHenry and Monroe Counties in Illinois on November 16, 2017 (82 Fed. Reg. 54232, 54243-45) and June 4, 2018 (83 Fed. Reg. 75776, 25801-04). USEPA corrected the omissions, designating both "attainment/unclassifiable." No Board action will be required based on this USEPA action. |
| December 27, 2018<br>(83 Fed. Reg. 66631) | USEPA redesignated all areas in Illinois, formerly designated unclassifiable, as unclassifiable/attainment for the 2012 primary annual average NAAQS for fine particulate matter (PM <sub>2.5</sub> ). No Board action will be required based on this USEPA action.   |

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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

- March 18, 2019  
(84 Fed. Reg. 9866)
- USEPA concluded after review to retain the existing 2010 primary NAAQS for sulfur dioxide (SO<sub>2</sub>). No Board action will be required based on this USEPA action.
- March 29, 2019  
(84 Fed. Reg. 11973)
- USEPA designated a new FEM for O<sub>3</sub> in ambient air. The Board must incorporate this method into the Illinois rules. USEPA's issuing an updated version of the *List of Designated Reference and Equivalent Methods* will allow the Board to incorporate that latest version by reference and obviate action on the March 29, 2019 designation individually.
- May 28, 2019  
(84 Fed. Reg. 24395)
- USEPA redesignated the Metro East area from "unclassifiable/attainment" to "attainment" for the 1997 primary and secondary NAAQS for PM<sub>2.5</sub>. The effect is that the 1997 primary annual average NAAQS for PM<sub>2.5</sub> no longer applies in any area in Illinois. No Board action will be required based on this USEPA action. However, evaluating this action prompts the Board to remove the 1997 primary annual average NAAQS for PM<sub>2.5</sub> from the Illinois rules.
- May 28, 2019  
(84 Fed. Reg. 24508)
- USEPA designated a new FRM for monitoring carbon monoxide in ambient air. The Board must incorporate this method into the Illinois rules. USEPA's issuing an updated version of the *List of Designated Reference and Equivalent Methods* will allow the Board to incorporate that latest version by reference and obviate action on the May 28, 2019 designation individually.
- August 23, 2019  
(84 Fed. Reg. 44238)
- USEPA reclassified the Chicago-Naperville area from moderate to serious nonattainment for the 2008 primary and secondary NAAQS for O<sub>3</sub>. This action changes the state implementation plan (SIP) requirements and attainment deadline for this area, but it does not affect the NAAQS standards that apply and how they apply. No Board action will be required based on this USEPA action.
- September 13, 2019  
(84 Fed. Reg. 48286)
- USEPA reconsidered its 2016 designation of Williamson County as nonattainment for the 2010 NAAQS for SO<sub>2</sub>. The

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ILLINOIS REGISTER

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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

effective date of the reconsideration is October 15, 2019. USEPA's reconsideration of the Williamson County area designation does not directly require Board action, but it does prompt Board action.

September 26, 2019  
(84 Fed. Reg. 50833)

USEPA designated a new FRM for monitoring nitrogen dioxide in ambient air. The Board must incorporate this method into the Illinois rules. USEPA's issuing an updated version of the *List of Designated Reference and Equivalent Methods* will allow the Board to incorporate that latest version by reference and obviate action on the September 26, 2019 designation individually.

December 15, 2019

USEPA released an updated version of the *List of Designated Reference and Equivalent Methods*. This update version adds the FRMs and FEM that USEPA designated on March 29, 2019; May 28, 2019; and September 26, 2019. Updating the incorporation by reference in 35 Ill. Adm. Code 243.108 to this version of the *List* will incorporate those FRMs and FEM.

The Board deviated from the literal text of the USEPA amendment by using incorporation by reference rather than listing the designated methods. The Board removed the 1997 primary and secondary NAAQS for PM<sub>2.5</sub> from the Illinois rules and limited applicability of the 2010 NAAQS for SO<sub>2</sub> to Macon County. The Board further updated incorporations by reference to *Code of Federal Regulations* provisions to the latest version available.

Tables appear in a document entitled "Identical-in –Substance Rulemaking Addendum (Proposed)" (IIS-RA(P)) that the Board added to consolidated docket R19-14/R20-3/R20-11 which list the limited revisions that are not based on current federal amendments. The tables contain the deviation from the literal text of the federal actions underlying this amendment, as well as updates to incorporations by reference to the *Code of Federal Regulations* that the Board made in the base text involved. Persons interested in the details of those corrections and amendments should refer to the IIS-RA(P) in consolidated docket R19-14/R20-3/R20-11.

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

ILLINOIS REGISTER

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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENTS

not subject to First Notice or to Second Notice review by the Joint Committee on Administrative Rules (JCAR).

- 16) Information and questions regarding this adopted rulemaking shall be directed to: Please reference consolidated docket R19-6 and direct inquiries to the following person:

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

312-814-6924  
michael.mccambridge@illinois.gov

Request copies of the Board's opinion and order of August 13, 2020 at 312-814-3620. Alternatively, you may obtain a copy of the Board's opinion and order from the Internet at [www.illinois.gov](http://www.illinois.gov).

The full text of the adopted amendments begins on the next page:

CERTIFICATE OF ADOPTED AMENDMENTS

The Pollution Control Board certifies that the attached hereto is a true and correct copy of:

Heading of Part: Air Quality Standards

Code citation: 35 Ill. Adm. Code 243

Sections involved:

243.108

243.120

243.122

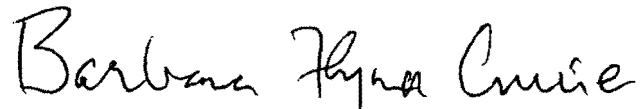
243.123

243.124

243.126

which was duly amended by this agency.

Statutory authority: 415 ILCS 5/7.2, 10, and 27



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Barbara Flynn Currie  
Chairman

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AUG 18 2020

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AUG 18 2020

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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 for Flagging and Documentation Submission for Data Influenced by Exceptional Events for Use in Initial Area Designations (Repealed)

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

SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23, filed and effective April 14, 1972; amended in R80-11, at 6 Ill. Reg. 5804, effective April 22, 1982; amended in R82-12, at 7 Ill. Reg. 9906, effective August 18, 1983; codified at 7 Ill. Reg. 13630; amended in R91-35 at 16 Ill. Reg. 8185, effective May 15, 1992; amended in R09-19 at 35 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 Ill. Reg. 12882, effective July 29, 2013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 29, 2013.

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 AUG 18 2020  
 SOS-CODE DIV. AUG 18 2020  
 SOS-CODE DIV. SOS-CODE DIV.



R14-16 at 38 Ill. Reg. 12900, effective June 9, 2014; amended in R15-4 at 39 Ill. Reg. 5434, effective March 24, 2015; amended in R16-2 at 40 Ill. Reg. 4906, effective March 3, 2016; amended in R17-1 at 41 Ill. Reg. 1121, effective January 23, 2017; amended in R17-10 at 41 Ill. Reg. 13413, effective October 23, 2017; amended in R18-15 at 42 Ill. Reg. 9308, effective May 29, 2018; amended in R19-6 at 43 Ill. Reg. 3034, effective February 19, 2019; amended in R19-14/R20-3/R20-11 at 44 Ill. Reg. 14223, effective AUG 18 2020.

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

**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 (2019) (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 (2019) (Reference Method for the Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline Method)), referenced in Section 243.122.

Appendix B to 40 CFR 50 (2019) (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 (2019) (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 (2019) (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 (2019) (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 (2019) (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 (2019) (Interpretation of the 1-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

Appendix I to 40 CFR 50 (2019) (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 (2019) (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 (2019) (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 (2019) (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 (2019) (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 (2019) (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 (2019) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Appendix Q to 40 CFR 50 (2019) (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 (2019) (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.

Appendix S to 40 CFR 50 (2019) (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 (2019) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)), referenced in Section 243.122.

EFFECTIVE DATE

**AUG 18 2020**

SOS-CODE DIV.

Appendix U to 40 CFR 50 (2019) (Interpretation of the Primary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.

Clean Air Act, 42 USC 7401 et seq. (2019) (for definitions of terms only), referenced in Section 243.102.

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

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

“List of Designated Reference and Equivalent Methods” (December 15, 2019) (referred to as the “List of Designated Methods” and referenced in Sections 243.101, 243.120, 243.122, 243.123, 243.124, 243.125, and 243.126.

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

(Source: Amended at 44 Ill. Reg. 14223, effective AUG 18 2020)

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

## 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 50.6(b), a provision marked "reserved" by USEPA. This statement maintains structural consistency with the corresponding federal regulation.
  - 3) For the purpose of determining attainment of the 1987 primary and secondary 24-hour NAAQS for 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.

- b) 1997 Secondary Annual Average and Primary and Secondary 24-Hour NAAQS for PM<sub>2.5</sub>
- 1) The 1997 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

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

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 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 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.

c) 2006 Secondary Annual Average and Primary and Secondary 24-Hour NAAQS for PM<sub>2.5</sub>

- 1) The 2006 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 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>.

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

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

- 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 50.18.

(Source: Amended at 44 Ill. Reg. 14223, effective AUG 18 2020)

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

**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 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) apply only in Macon County.

BOARD NOTE: Derived from 40 CFR 50.4. This subsection (a) no longer applies in any area of Illinois outside Macon County. The Board will delete the 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.



this subsection (a) after 40 CFR 50.4 no longer applies: one year after the effective date of a USEPA area designation for Macon County.

- 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 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), this must be considered a valid three-hour average. In all cases, the three-hour block average must be computed as the sum of the hourly averages divided by three.

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

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

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (c) is derived from 40 CFR 50.17. The 1971 primary NAAQS for 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) and the appended Board note.

AUG 18 2020

(Source: Amended at 44 Ill. Reg. 14223, effective \_\_\_\_\_)

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

**Section 243.123 Carbon Monoxide**

- a) The 1971 eight-hour and one-hour primary NAAQS for carbon monoxide are as follows:
  - 1) An eight-hour average concentration of 9 ppm (10 mg/m<sup>3</sup>), not to be exceeded more than once per year; and
  - 2) A one-hour average concentration of 35 ppm (40 mg/m<sup>3</sup>), not to be exceeded more than once per year.
- b) The levels of carbon monoxide in the ambient air must be measured by a method that fulfills either of the following requirements:
  - 1) An FRM based on appendix C 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
  - 2) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
- c) An eight-hour average concentration must be considered valid if at least 75 percent of the hourly average for the eight-hour period is available. In the event that only six-hour (or seven-hour) averages are available, the eight-hour average must be computed on the basis of the hours available using six (or seven) as the divisor.
- d) When summarizing data for comparison with the standards, averages must be stated to one decimal place. Comparison of the data with the levels of the standards in ppm must be made in terms of integers with fractional parts of 0.5 or greater rounded up.

BOARD NOTE: Derived from 40 CFR 50.8.

(Source: Amended at 44 Ill. Reg. 14223, effective AUG 18 2020)

EFFECTIVE DATE

AUG 18 2020

SOS-CODE DIV.

**Section 243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)**

- a) The level of the 1971 primary annual average NAAQS for nitrogen oxides is 53 ppb, annual average concentration, measured in the ambient air as nitrogen dioxide (NO<sub>2</sub>).
- b) The level of the 2010 primary one-hour NAAQS for nitrogen oxides is 100 ppb, one-hour average concentration, measured in the ambient air as NO<sub>2</sub>.
- c) The level of the 1971 secondary annual average NAAQS for nitrogen oxides is 0.053 ppm (100 µg/m<sup>3</sup>), annual arithmetic mean concentration, measured in the ambient air as NO<sub>2</sub>.
- d) The levels of the standards in subsections (a) through (c) of this Section must be measured by:
  - 1) An FRM based on appendix F to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or
  - 2) By an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
- e) The 1971 primary annual average NAAQS for nitrogen oxides in subsection (a) of this Section is met when the annual average concentration in a calendar year is less than or equal to 53 ppb, as determined in accordance with appendix S of 40 CFR 50, incorporated by reference in Section 243.108, for the annual standard.
- f) The 2010 one-hour primary NAAQS for nitrogen oxides in subsection (b) of this Section is met when the three-year average of the annual 98th percentile of the daily maximum one-hour average concentration is less than or equal to 100 ppb, as determined in accordance with appendix S of 40 CFR 50, incorporated by reference in Section 243.108, for the 1-hour standard.
- g) The 1971 secondary annual average NAAQS for nitrogen oxides in subsection (c) of this Section is attained when the annual arithmetic mean concentration in a calendar year is less than or equal to 0.053 ppm, rounded to three decimal places (fractional parts equal to or greater than 0.0005 ppm must be rounded up). To demonstrate attainment, an annual mean must be based upon hourly data that are at least 75 percent complete or upon data derived from manual methods that are at least 75 percent complete for the scheduled sampling days in each calendar quarter.

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AUG 18 2020

SOS-CODE DIV.

BOARD NOTE: Derived from 40 CFR 50.11.

(Source: Amended at 44 Ill. Reg. 14223, effective AUG 18 2020)

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AUG 18 2020

SOS-CODE DIV.

**Section 243.126 Lead**

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

BOARD NOTE: Derived from 40 CFR 50.12. USEPA designated Granite City as nonattainment with the 2008 primary and secondary three-month average NAAQS for lead effective December 31, 2010 and an area of Chicago effective December 31, 2011. See 76 Fed. Reg. 72097, 79108 (Nov. 22, 2011); 75 Fed. Reg. 71033, 71042 (Nov. 22, 2010). Thus, this subsection (a) was obsolete on December 31, 2012, and the Board removed it.

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

- 1) The 2008 primary and secondary three-month average NAAQS for lead and its compounds is  $0.15 \mu\text{g}/\text{m}^3$ , arithmetic mean concentration over a three-month period, measured in the ambient air as lead by either of the following:

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

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

- 2) The 2008 primary and secondary three-month average NAAQS for lead are met when the maximum arithmetic three-month mean concentration for a three-year period, as determined in accordance with appendix R of 40 CFR 50, incorporated by reference in Section 243.108, is less than or equal to  $0.15 \mu\text{g}/\text{m}^3$ .

BOARD NOTE: Derived from 40 CFR 50.16.

(Source: Amended at 44 Ill. Reg. 14223, effective AUG 18 2020)

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AUG 18 2020

SOS-CODE DIV.