

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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

<u>Section Numbers</u> :	<u>Proposed Actions</u> :
243.108	Amendment
243.122	Amendment
- 4) Statutory Authority: 415 ILCS 5/7.2, 10, and 27.
- 5) A Complete Description of the Subjects and Issues Involved: The following briefly describes the subjects and issues involved in this rulemaking. A comprehensive description is contained in the Board's opinion and order of February 17, 2022, proposing amendments in docket R22-8 for public comment, which opinion and order is available from the address below. As is explained in that opinion, the Board will receive public comment on the proposed amendment for 45 days from the date it appears in the *Illinois Register* before proceeding to adopt amendment based on this proposal.

The docket R22-8 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 first half of 2020.

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

March 4, 2021 (86 Fed. Reg. 12682)	USEPA designated a new FRM for sulfur dioxide (SO ₂) in ambient air. The Board must incorporate this FRM into the Illinois rules.
March 26, 2021 (86 Fed. Reg. 16055)	USEPA issued the Round 4 area designations for the primary 2010 one-hour NAAQS for SO ₂ . This action redesignated the Macon County area from nonattainment to attainment/unclassifiable, effective April 30, 2021. USEPA's approval means that the 1971 primary 24-hour and annual average NAAQS for sulfur dioxide no longer applies in Illinois on April 30, 2022. After that date, the Board can remove that NAAQS from the Illinois rules.

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May 26, 2020 (85 Fed. Reg. 31378)	USEPA redesignated the Lemont and Pekin areas from nonattainment to attainment for the 2010 NAAQS for SO ₂ . This action does not change applicability of any NAAQS in Illinois. The Board takes note, but this USEPA action requires no Board response.
December 15, 2021	USEPA released an updated version of the <i>List of Designated Reference and Equivalent Methods</i> . The update incorporates the new FRM designated on March 4, 2021. Updating the incorporation by reference for the <i>List</i> to this latest version incorporates that FRM into the Illinois rules.

The Board deviated from the literal text of the USEPA amendment by using incorporation by reference rather than listing the designated methods. The further Board removed two obsolete incorporations by reference, updated incorporations by reference to *Code of Federal Regulations* provisions to the latest version available and made limited grammatical and stylistic corrections.

Tables appear in a document entitled “Identical-in-Substance Rulemaking Addendum (Proposed)” (IIS-RA(P)) that the Board added to docket R22-8 which list the limited revisions that are not based on current federal amendments. The tables contain the deviation from the literal text of the federal actions underlying this amendment, as well as updates to incorporations by reference to the *Code of Federal Regulations* that the Board made in the base text involved. Persons interested in the details of those corrections and amendments should refer to the IIS-RA(P) in docket R22-8.

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).

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Does this rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No

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- 9) Does the proposed rule contain incorporations by reference? Yes
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)].
- 12) Time, Place and manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comment on this proposal for a period of 45 days after the date of this publication. Comments should reference docket R22-8 and be addressed to:

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

The Board will conduct one public hearing on the proposed amendment because it will ultimately result in submission to the United States Environmental Protection Agency of an amendment to the state implementation plan (SIP). Section 110(a)(2) of the Federal Clean Air Act (42 U.S.C. 7410(a)(2) (2019)) requires reasonable notice and hearing before a state undertakes an amendment to the SIP. The public hearing will occur by videoconference at the following time and between the following locations:

11:45 a.m., April 21, 2022
Room 11-512
James R. Thompson Center
100 W. Randolph St.
Chicago, IL 60601

and

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

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Comments should reference docket R22-8 and be addressed to:

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

Please direct inquiries to the following person and reference docket R22-8:

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 at 312-814-3620 or download a copy from the Board's Website at <http://www.pcb.illinois.gov>.

13) Initial regulatory flexibility analysis:

- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: This rulemaking may affect those small businesses, small municipalities, and not-for-profit corporations that emit pollutants that could potentially affect ambient air quality in any area of Illinois. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)]
- B) Reporting, bookkeeping or other procedures required for compliance: The existing rules and proposed amendments require extensive reporting, bookkeeping and other procedures, including emissions monitoring, annual reports, and maintenance of operating records. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)]
- C) Types of professional skills necessary for compliance: Compliance with the existing rules and proposed amendments may require the services of an attorney,

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certified public accountant, chemist, and registered professional engineer. These proposed amendments do not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)]

- 14) Small Business Impact Analysis: Sections 1-5(c) and 5-30 of the Administrative Procedure Act [5 ILCS 100/1-5(c) and 5-30] provide that small business impact analysis and related requirements under Section 5-30 do not apply to this type of identical-in-substance rulemaking.
- 15) Regulatory agenda on which this rulemaking was summarized: January 2021

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

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

5
6 PART 243
7 AIR QUALITY STANDARDS

8
9 SUBPART A: GENERAL PROVISIONS

10
11 Section
12 243.101 Definitions
13 243.102 Scope
14 243.103 Applicability
15 243.104 Nondegradation (Repealed)
16 243.105 Air Quality Monitoring Data Influenced by Exceptional Events
17 243.106 Monitoring (Repealed)
18 243.107 Reference Conditions
19 243.108 Incorporations by Reference

20
21 SUBPART B: STANDARDS AND MEASUREMENT METHODS

22
23 Section
24 243.120 PM₁₀ and PM_{2.5}
25 243.121 Particulates (Repealed)
26 243.122 Sulfur Oxides (Sulfur Dioxide)
27 243.123 Carbon Monoxide
28 243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)
29 243.125 Ozone
30 243.126 Lead

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

37
38 AUTHORITY: Implementing Sections 7.2 and 10 and authorized by Section 27 of the
39 Environmental Protection Act [415 ILCS 5/7.2, 10, and 27].

40
41 SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23,
42 filed and effective April 14, 1972; amended in R80-11, at 6 Ill. Reg. 5804, effective April 22,
43 1982; amended in R82-12, at 7 Ill. Reg. 9906, effective August 18, 1983; codified at 7 Ill. Reg.
44 13630; amended in R91-35 at 16 Ill. Reg. 8185, effective May 15, 1992; amended in R09-19 at

45 35 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 Ill. Reg. 12882,
46 effective July 29, 2013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 27, 2013;
47 amended in R14-16 at 38 Ill. Reg. 12900, effective June 9, 2014; amended in R15-4 at 39 Ill.
48 Reg. 5434, effective March 24, 2015; amended in R16-2 at 40 Ill. Reg. 4906, effective March 3,
49 2016; amended in R17-1 at 41 Ill. Reg. 1121, effective January 23, 2017; amended in R17-10 at
50 41 Ill. Reg. 13413, effective October 23, 2017; amended in R18-15 at 42 Ill. Reg. 9308, effective
51 May 29, 2018; amended in R19-6 at 43 Ill. Reg. 3034, effective February 19, 2019; amended in
52 R19-14/R20-3/R20-11 at 44 Ill. Reg. 14223, effective August 18, 2020; amended in R21-1 at 45
53 Ill. Reg. 337, effective December 17, 2020; amended in R22-8 at 46 Ill. Reg. _____, effective
54 _____.

55
56 **SUBPART A: GENERAL PROVISIONS**

57
58 **Section 243.108 Incorporations by Reference**

59
60 The following materials are incorporated by reference. These incorporations do not include any
61 later amendments or editions:

62
63 Government Printing Office (GPO), Washington, DC 20401, 202-783-3238,
64 www.govinfo.gov/. The following documents incorporated by reference are
65 available from this source:

66
67 Appendix A-1 to 40 CFR 50 (2020) (Reference Measurement Principle
68 and Calibration Procedure for the Measurement of Sulfur Dioxide in the
69 Atmosphere (Ultraviolet Fluorescence Method)), referenced in Section
70 243.122.

71
72 Appendix A-2 to 40 CFR 50 (2020) (Reference Method for the
73 Determination of Sulfur Dioxide in the Atmosphere (Pararosaniline
74 Method)), referenced in Section 243.122.

75
76 Appendix B to 40 CFR 50 (2020) (Reference Method for the
77 Determination of Suspended Particulate Matter in the Atmosphere (High-
78 Volume Method)), referenced in appendix G to 40 CFR 50 (see below).

79
80 Appendix C to 40 CFR 50 (2020) (Reference Measurement Principle and
81 Calibration Procedure for the Measurement of Carbon Monoxide in the
82 Atmosphere (Non-Dispersive Infrared Photometry)), referenced in Section
83 243.123.

84
85 Appendix D to 40 CFR 50 (2020) (Reference Measurement Principle and
86 Calibration Procedure for the Measurement of Ozone in the Atmosphere),
87 referenced in Section 243.125.
88

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89 Appendix F to 40 CFR 50 (2020) (Reference Measurement Principle and
90 Calibration Procedure for the Measurement of Nitrogen Dioxide in the
91 Atmosphere (Gas Phase Chemiluminescence)), referenced in Section
92 243.124.
93
94 Appendix G to 40 CFR 50 (2020) (Reference Method for the
95 Determination of Lead in Suspended Particulate Matter Collected from
96 Ambient Air), referenced in Section 243.126.
97
98 Appendix J to 40 CFR 50 (2020) (Reference Method for the
99 Determination of Particulate Matter as PM₁₀ in the Atmosphere),
100 referenced in Section 243.120.
101
102 Appendix K to 40 CFR 50 (2020) (Interpretation of the Primary and
103 Secondary National Ambient Air Quality Standards for Particulate
104 Matter), referenced in Section 243.120.
105
106 Appendix L to 40 CFR 50 (2020) (Reference Method for the
107 Determination of Fine Particulate Matter as PM_{2.5} in the Atmosphere),
108 referenced in Section 243.120.
109
110 Appendix N to 40 CFR 50 (2020) (Interpretation of the Primary and
111 Secondary National Ambient Air Quality Standards for Particulate
112 Matter), referenced in Section 243.120.
113
114 Appendix O to 40 CFR 50 (2020) (Reference Method for the
115 Determination of Coarse Particulate Matter as PM_{10-2.5} in the
116 Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in
117 federally required monitoring by the NCore system pursuant to 40 CFR
118 58.
119
120 Appendix P to 40 CFR 50 (2020) (Interpretation of the Primary and
121 Secondary National Ambient Air Quality Standards for Ozone),
122 referenced in Section 243.125.
123
124 Appendix Q to 40 CFR 50 (2020) (Reference Method for the
125 Determination of Lead in Particulate Matter as PM₁₀ Collected from
126 Ambient Air), referenced in appendix R to 40 CFR 50.
127
128 Appendix R to 40 CFR 50 (2020) (Interpretation of the National Ambient
129 Air Quality Standards for Lead), referenced in Section 243.126.
130

131 Appendix S to 40 CFR 50 (2020) (Interpretation of the Primary National
132 Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen
133 Dioxide)), referenced in Section 243.124.
134

135 Appendix T to 40 CFR 50 (2020) (Interpretation of the Primary National
136 Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)),
137 referenced in Section 243.122.
138

139 Appendix U to 40 CFR 50 (2020) (Interpretation of the Primary National
140 Ambient Air Quality Standards for Ozone), referenced in Section 243.125.
141

142 Clean Air Act, 42 USC 7401 et seq. (2019) (for definitions of terms only),
143 referenced in Section 243.101.
144

145 BOARD NOTE: Segments of the Code of Federal Regulations and the
146 United States Code are available for free download as PDF documents
147 from the GPO FDsys website: www.govinfo.gov/.
148

149 USEPA, National Exposure Research Laboratory, Human Exposure &
150 Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC
151 27711. The following documents incorporated by reference are available from
152 this source:
153

154 "List of Designated Reference and Equivalent Methods" (December 15,
155 2021) (referred to as the "List of Designated Methods" and referenced in
156 Sections 243.101, 243.120, 243.122, 243.123, 243.124, 243.125, and
157 243.126).
158

159 BOARD NOTE: The List of Designated Methods is available for free
160 download as a PDF document from the USEPA, Technology Transfer,
161 Ambient Monitoring Technology Information Center website:
162 <http://www.epa.gov/ttn/amtic/criteria.html>.
163

164 (Source: Amended at 46 Ill. Reg. _____, effective _____)
165

166 SUBPART B: STANDARDS AND MEASUREMENT METHODS
167

168 **Section 243.122 Sulfur Oxides (Sulfur Dioxide)**
169

170 a) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO₂)
171

- 172 1) The level of the 1971 secondary three-hour NAAQS for sulfur oxides is
173 0.5 ppm, not to be exceeded more than once per calendar year. The three-
174 hour averages must be determined from successive non-overlapping three-

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175 hour blocks starting at midnight each calendar day and must be rounded to
176 one decimal place (fractional parts equal to or greater than 0.05 ppm must
177 be rounded up).
178

179 2) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM
180 described in appendix A-2 to 40 CFR 50, incorporated by reference in
181 Section 243.108, or by an FEM designated by USEPA and listed in List of
182 Designated Methods, incorporated by reference in Section 243.108.
183

184 3) To demonstrate attainment, the second-highest three-hour average must be
185 based upon hourly data that are at least 75 percent complete in each
186 calendar quarter. A three-hour block average must be considered valid
187 only if all three hourly averages for the three-hour period are available. If
188 only one or two hourly averages are available, but the three-hour average
189 would exceed the level of the standard when zeros are substituted for the
190 missing values, subject to the rounding rule of subsection (b)(1), this must
191 be considered a valid three-hour average. In all cases, the three-hour
192 block average must be computed as the sum of the hourly averages
193 divided by three.
194

195 BOARD NOTE: This subsection (a) is derived from 40 CFR 50.5.
196

197 b) 2010 Primary One-Hour NAAQS for Sulfur Oxides (as SO₂)
198

199 1) The level of the 2010 primary one-hour NAAQS for sulfur oxides is 75
200 ppb, measured in the ambient air as SO₂.
201

202 2) The 2010 one-hour primary NAAQS for sulfur oxides is met at an ambient
203 air quality monitoring site when the three-year average of the annual (99th
204 percentile) of the daily maximum one-hour average concentrations is less
205 than or equal to 75 ppb, as determined in accordance with appendix T of
206 40 CFR 50, incorporated by reference in Section 243.108.
207

208 3) The level of the 2010 one-hour primary NAAQS for sulfur oxides must be
209 measured by an FRM based on appendix A-1 or A-2 of 40 CFR 50,
210 incorporated by reference in Section 243.108, or by an FEM designated by
211 USEPA and listed in List of Designated Methods, incorporated by
212 reference in Section 243.108.
213

214 BOARD NOTE: This subsection (b) is derived from 40 CFR 50.17.
215

216 (Source: Amended at 46 Ill. Reg. _____, effective _____)

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

5 PART 243
6 AIR QUALITY STANDARDS
7

8 SUBPART A: GENERAL PROVISIONS
9

10Section

11243.101 Definitions
12243.102 Scope
13243.103 Applicability
14243.104 Nondegradation (Repealed)
15243.105 Air Quality Monitoring Data Influenced by Exceptional Events
16243.106 Monitoring (Repealed)
17243.107 Reference Conditions
18243.108 Incorporations by Reference

19

20 SUBPART B: STANDARDS AND MEASUREMENT METHODS

21

22Section

23243.120 PM₁₀ and PM_{2.5}
24243.121 Particulates (Repealed)
25243.122 Sulfur Oxides (Sulfur Dioxide)
26243.123 Carbon Monoxide
27243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)
28243.125 Ozone
29243.126 Lead

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31243.APPENDIX A Rule into Section Table (Repealed)
32243.APPENDIX B Section into Rule Table (Repealed)
33243.APPENDIX C Past Compliance Dates (Repealed)
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35 by Exceptional Events for Use in Initial Area Designations (Repealed)
36

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37AUTHORITY: Implementing Sections 7.2 and 10 and authorized by Section 27 of the
38Environmental Protection Act [415 ILCS 5/7.2, 10, and 27].

39

40SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R71-23,
41filed and effective April 14, 1972; amended in R80-11, at 6 Ill. Reg. 5804, effective April 22,
421982; amended in R82-12, at 7 Ill. Reg. 9906, effective August 18, 1983; codified at 7 Ill. Reg.
4313630; amended in R91-35 at 16 Ill. Reg. 8185, effective May 15, 1992; amended in R09-19 at
4435 Ill. Reg. 18857, effective October 25, 2011; amended in R13-11 at 37 Ill. Reg. 12882,
45effective July 29, 2013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 27, 2013;
46amended in R14-16 at 38 Ill. Reg. 12900, effective June 9, 2014; amended in R15-4 at 39 Ill.
47Reg. 5434, effective March 24, 2015; amended in R16-2 at 40 Ill. Reg. 4906, effective March 3,
482016; amended in R17-1 at 41 Ill. Reg. 1121, effective January 23, 2017; amended in R17-10 at
4941 Ill. Reg. 13413, effective October 23, 2017; amended in R18-15 at 42 Ill. Reg. 9308, effective
50May 29, 2018; amended in R19-6 at 43 Ill. Reg. 3034, effective February 19, 2019; amended in
51R19-14/R20-3/R20-11 at 44 Ill. Reg. 14223, effective August 18, 2020; amended in R21-1 at 45
52Ill. Reg. 337, effective December 17, 2020; amended in R22-8 at 46 Ill. Reg. _____, effective

53 _____.

54

55

SUBPART A: GENERAL PROVISIONS

56

57**Section 243.108 Incorporations by Reference**

58

59The following materials are incorporated by reference. These incorporations do not include any
60later amendments or editions:

61

62

Government Printing Office (GPO), Washington, DC 20401, 202-783-3238,
www.govinfo.gov/. The following documents incorporated by reference are
available from this source:

63

64

65

66

Appendix A-1 to 40 CFR 50 (2020) ~~(2019)~~ (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 (2020) ~~(2019)~~ (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 (2020)~~(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 (2020)~~(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 (2020)~~(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 (2020)~~(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 (2020)~~(2019)~~ (Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air), referenced in Section 243.126.

Appendix J to 40 CFR 50 (2020)~~(2019)~~ (Reference Method for the Determination of Particulate Matter as PM₁₀ in the Atmosphere), referenced in Section 243.120.

Appendix K to 40 CFR 50 (2020)~~(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 (2020)~~(2019)~~ (Reference Method for the Determination of Fine Particulate Matter as PM_{2.5} in the Atmosphere), referenced in Section 243.120.

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- 110 Appendix N to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the Primary
- 111 and Secondary National Ambient Air Quality Standards for Particulate
- 112 Matter), referenced in Section 243.120.
- 113
- 114 Appendix O to 40 CFR 50 (2020)~~(2019)~~ (Reference Method for the
- 115 Determination of Coarse Particulate Matter as PM_{10-2.5} in the
- 116 Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in
- 117 federally required monitoring by the NCore system pursuant to 40 CFR
- 118 58.
- 119
- 120 Appendix P to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the Primary and
- 121 Secondary National Ambient Air Quality Standards for Ozone), referenced
- 122 in Section 243.125.
- 123
- 124 Appendix Q to 40 CFR 50 (2020)~~(2019)~~ (Reference Method for the
- 125 Determination of Lead in Particulate Matter as PM₁₀ Collected from
- 126 Ambient Air), referenced in appendix R to 40 CFR 50.
- 127
- 128 Appendix R to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the National
- 129 Ambient Air Quality Standards for Lead), referenced in Section 243.126.
- 130
- 131 Appendix S to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the Primary
- 132 National Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen
- 133 Dioxide)), referenced in Section 243.124.
- 134
- 135 Appendix T to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the Primary
- 136 National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur
- 137 Dioxide)), referenced in Section 243.122.
- 138
- 139 Appendix U to 40 CFR 50 (2020)~~(2019)~~ (Interpretation of the Primary
- 140 National Ambient Air Quality Standards for Ozone), referenced in Section
- 141 243.125.
- 142
- 143 Clean Air Act, 42 USC 7401 et seq. (2019)~~(2018)~~ (for definitions of
- 144 terms only), referenced in Section 243.101.
- 145

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146 BOARD NOTE: Segments of the Code of Federal Regulations and the
147 United States Code are available for free download as PDF documents
148 from the GPO FDsys website: www.govinfo.gov/.
149

150 USEPA, National Exposure Research Laboratory, Human Exposure &
151 Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC
152 27711. The following documents incorporated by reference are available from
153 this source:
154

155 ~~"List of Designated Reference and Equivalent Methods"~~ (December 15,
156 2021) (~~June 15, 2020~~) (referred to as the ~~"List of Designated Methods"~~
157 and referenced in Sections 243.101, 243.120, 243.122, 243.123, 243.124,
158 243.125, and 243.126.
159

160 BOARD NOTE: The List of Designated Methods is available for free
161 download as a PDF document from the USEPA, Technology Transfer,
162 Ambient Monitoring Technology Information Center website:
163 <http://www.epa.gov/ttn/amtic/criteria.html>.
164

165 (Source: Amended at 46 Ill. Reg. _____, effective _____)
166

167 SUBPART B: STANDARDS AND MEASUREMENT METHODS
168

169 **Section 243.122 Sulfur Oxides (Sulfur Dioxide)**

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

172 ~~1) The level of the 1971 primary annual average NAAQS for sulfur oxides is~~
173 ~~0.030 ppm, not to be exceeded in a calendar year. The annual arithmetic~~
174 ~~mean must be rounded to three decimal places (fractional parts equal to or~~
175 ~~greater than 0.0005 ppm must be rounded up).~~

176 ~~2) The level of the 1971 primary 24-hour NAAQS for sulfur oxides is 0.14~~
177 ~~ppm, not to be exceeded more than once per calendar year. The 24-hour~~
178 ~~averages must be determined from successive non-overlapping 24-hour~~
179 ~~blocks starting at midnight each calendar day and must be rounded to two~~

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180 decimal places (fractional parts equal to or greater than 0.005 ppm must be
181 rounded up).

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

186 4) — To demonstrate attainment, the annual arithmetic mean and the
187 second highest 24-hour averages must be based upon hourly data that are
188 at least 75 percent complete in each calendar quarter. A 24-hour block
189 average must be considered valid if at least 75 percent of the hourly
190 averages for the 24-hour period are available. In the event that only 18-,
191 19-, 20-, 21-, 22-, or 23-hour averages are available, the 24-hour block
192 average must be computed as the sum of the available hourly averages
193 using the number of hours (i.e., 18, 19, etc.) as the divisor. If less than
194 18-hour averages are available, but the 24-hour average would exceed the
195 level of the standard when zeros are substituted for the missing values,
196 subject to the rounding rule of subsection (b) of this Section, this must be
197 considered a valid 24-hour average. In this case, the 24-hour block
198 average must be computed as the sum of the available hourly averages
199 divided by 24.

200 5) — The 1971 primary annual average and 24-hour NAAQS for sulfur oxides
201 set forth in this subsection (a) apply only in Macon County.

202 BOARD NOTE: Derived from 40 CFR 50.4. This subsection (a) no longer
203 applies in any area of Illinois outside Macon County. The Board will delete the
204 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in
205 this subsection (a) after 40 CFR 50.4 no longer applies: one year after the
206 effective date of a USEPA area designation for Macon County.

207 ab

208

209 a) 1971 Secondary Three-Hour NAAQS for Sulfur Oxides (as SO₂)

210

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 211 1) The level of the 1971 secondary three-hour NAAQS for sulfur oxides is
212 0.5 ppm, not to be exceeded more than once per calendar year. The
213 three-hour averages must be determined from successive non-overlapping
214 three-hour blocks starting at midnight each calendar day and must be
215 rounded to one decimal place (fractional parts equal to or greater than 0.05
216 ppm must be rounded up).
217
218 2) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM
219 described in appendix A-2 to 40 CFR 50, incorporated by reference in
220 Section 243.108, or by an FEM designated by USEPA and listed in List of
221 Designated Methods, incorporated by reference in Section 243.108.
222
223 3) To demonstrate attainment, the second-highest three-hour average must be
224 based upon hourly data that are at least 75 percent complete in each
225 calendar quarter. A three-hour block average must be considered valid
226 only if all three hourly averages for the three-hour period are available. If
227 only one or two hourly averages are available, but the three-hour average
228 would exceed the level of the standard when zeros are substituted for the
229 missing values, subject to the rounding rule of subsection (b)(1), this must
230 be considered a valid three-hour average. In all cases, the three-hour
231 block average must be computed as the sum of the hourly averages
232 divided by three.
233

234 BOARD NOTE: This subsection (~~aba~~) is derived from 40 CFR 50.5.
235

236 ~~beb~~ 2010 Primary One-Hour NAAQS for Sulfur Oxides (as SO₂)
237

- 238 1) The level of the 2010 primary one-hour NAAQS for sulfur oxides is 75
239 ppb, measured in the ambient air as SO₂.
240
241 2) The 2010 one-hour primary NAAQS for sulfur oxides is met at an ambient
242 air quality monitoring site when the three-year average of the annual (99th
243 percentile) of the daily maximum one-hour average concentrations is less
244 than or equal to 75 ppb, as determined in accordance with appendix T of
245 40 CFR 50, incorporated by reference in Section 243.108.
246

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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

252
253 BOARD NOTE: This subsection (~~be~~b) is derived from 40 CFR 50.17. ~~The 1971~~
254 ~~primary NAAQS for SO₂ remains in effect until the federal conditions of 40 CFR~~
255 ~~50.4(e) have been fulfilled, as outlined in subsection (a)(5) and the appended~~
256 ~~Board note.~~

257
259 (Source: Amended at 46 Ill. Reg. _____, effective _____)

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