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

PART 243 AIR QUALITY STANDARDS

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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, 20132013; amended in R14-6 at 37 Ill. Reg. 19848, effective November 27, 2013; amended in R14-17 at 38 Ill. Reg. 12900, effective June 9, 2014.

SUBPART A: GENERAL PROVISIONS

Section 243.101 Definitions

For the purposes of this Part, terms listed below will have the meanings attributed to them in this Section. As used in this Part, all terms not defined in this Section will have the meaning given

SUBTITLE BCHAPTER ISUBCHAPTERthem by the Act; the CAA, incorporated by reference in Section 243.108; or 35 Ill. Adm. Code201.102.

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Ambient air" means that portion of the atmosphere, external to buildings, to which the general public has access.

"Clean Air Act" or "CAA" means the federal Clean Air Act (42 USC 7401 et seq, as amended), incorporated by reference in Section 243.108.

"Exceedance of a NAAQS" means one occurrence of a measured or modeled concentration that exceeds the specified concentration level of that NAAQS for the averaging period specified by the standard.

"Exceptional event" means an event and its resulting emissions that fulfills all of the following criteria:

The event affects air quality in such a way that there exists a clear causal relationship between the specific event and the monitored exceedance or violation;

The event is not reasonably controllable or preventable;

The event is caused by human activity that is unlikely to recur at a particular location or a natural event; and

The event is determined by USEPA in accordance with 40 CFR 50.14 to be an exceptional event.

An "exceptional event" does not include any of the following:

Air pollution relating to source noncompliance;

Stagnation of air masses and meteorological inversions;

A meteorological event involving high temperatures or lack of precipitation (i.e., severe, extreme or exceptional drought).

BOARD NOTE: Stagnation of air masses, meteorological inversions, and meteorological events involving high temperatures or lack of precipitation do not directly cause pollutant emissions and are not exceptional events. However, conditions involving high temperatures or lack of precipitation may promote occurrences of particular types of exceptional events, such as wildfires or high wind events, which do directly cause emissions.

"Federal equivalent method" or "FEM" means a method for measuring the concentration of an air pollutant in the ambient air that USEPA has designated as an equivalent method pursuant to 40 CFR 53 and which is included in the List of

SUBTITLE BCHAPTER ISUBCHAPTER IDesignated Methods, including later updates, as incorporated by reference inSection 243.108; the term "federal equivalent method" does not include a methodfor which USEPA has cancelled or superseded an equivalent method designationin accordance with 40 CFR 53.11 or 53.16, as reflected in the incorporation byreference in Section 243.108.

BOARD NOTE: Derived from 40 CFR 50.1(f) (definition of "equivalent method"), 50.11(d)(2) (parenthetical definition of "FEM"), and 53.1 (definition of "federal equivalent method"). The clause "including later updates" in this definition is intended to exclude methods canceled by USEPA pursuant to 40 CFR 53.11 or 53.16 for which the cancellation is included in the updates to List of Designated Methods incorporated by reference in Section 243.108. A federal designation of an FEM becomes effective upon publication of a notice in the Federal Register. A federal cancellation of an FEM becomes effective upon deletion from the listing of FEMs.

"Federal land manager" means the Secretary of the department with authority over the federal Class I area (or the Secretary's designee). BOARD NOTE: *See* 40 CFR 50.1(r) and 51.301 (2016) (definitions of "federal

land manager"). There are no federal Class I areas in or immediately abutting Illinois. *See* subpart D of 40 CFR 81 (2016).

"Federal reference method" or "FRM" means a method of sampling and analyzing the ambient air for an air pollutant that USEPA has specified as a reference method in an appendix to 40 CFR 50, incorporated by reference in Section 243.108, or a method that USEPA has designated as a reference method pursuant to 40 CFR 53 and which is included in List of Designated Methods, including later updates, incorporated by reference in Section 243.108; the term "federal reference method" does not include a method for which USEPA has cancelled or superseded a reference method designation in accordance with 40 CFR 53.11 or 53.16, as reflected in the incorporation by reference in Section 243.108.

BOARD NOTE: Derived from 40 CFR 50.1(f) (definition of "reference method") and 53.1 (definition of "federal reference method"). The clause "including later updates" in this definition is intended to include methods canceled by USEPA pursuant to 40 CFR 53.11 or 53.16 for which the cancellation is included in the updates to List of Designated Methods incorporated by reference in Section 243.108. A federal designation of an FRM becomes effective upon publication of a notice in the Federal Register. A federal cancellation of an FRM becomes effective upon deletion from the listing of FRMs or from an appendix to 40 CFR 50.

"High wind dust event" is an event that includes the high-speed wind and the dust that the wind entrains and transports to a monitoring site.

"High wind threshold" is the minimum wind speed capable of causing particulate matter emissions from natural undisturbed lands in the area affected by a high wind dust event.

SUBTITLE BCHAPTER ISUBCHAPTER I"Micrograms per cubic meter" or " $\mu g/m^3$ " means one millionth (10⁻⁶) of a gram of
a contaminant per cubic meter of ambient air, as measured and determined by the
methods prescribed for that contaminant.SUBCHAPTER I

BOARD NOTE: The Board added this definition and that for "milligrams per liter".

"Milligrams per cubic meter" or "mg/m³" means one thousandth (10^{-3}) of a gram of a contaminant per cubic meter of ambient air, as measured and determined by the methods prescribed for that contaminant.

"National Ambient Air Quality Standard" or "NAAQS" means a standard established by USEPA that applies for outdoor air throughout the United States. BOARD NOTE: The Board added this definition, derived from the definition in "Terms of Environment: Glossary, Abbreviations, and Acronyms" (December 1997), EPA 175-B-97-001, at p. 30. USEPA has codified the NAAQS at 40 CFR 50.

BOARD NOTE: The Board added this definition based on the definition in "Terms of Environment: Glossary, Abbreviations, and Acronyms" (December 1997), document number EPA 175-B-97-001, USEPA, Office of Communications, Education, and Public Affairs, at p. 30.

"Natural event" means an event and its resulting emissions, which may recur at the same location, in which human activity plays little or no direct causal role. For purposes of this definition, anthropogenic sources that are reasonably controlled are not human activity that plays a direct causal role in causing emissions.

"Parts per billion" or "ppb" means the ratio of the parts of a specified contaminant to a billion parts of air by weight $(1:10^{-9})$, as measured and determined by the methods prescribed for that contaminant.

BOARD NOTE: The Board added this definition and that for "parts per million", derived from the parentheticals in 40 CFR 50.4(a) and (b) and 50.17(a) and the definition of "parts per billion (ppb)/parts per million (ppm)" in "Terms of Environment: Glossary, Abbreviations, and Acronyms" (December 1997), EPA 175-B-97-001, at p. 34.

"Parts per million" or "ppm" means the ratio of the parts of a specified contaminant to a million parts of air by weight (1:10⁻⁶), as measured and determined by the methods prescribed for that contaminant. BOARD NOTE: The Board added this definition, derived from the parentheticals in 40 CFR 50.4(a) and (b) and 50.17(a) and the definition of "parts per billion (ppb)/parts per million (ppm)" in "Terms of Environment: Glossary, Abbreviations, and Acronyms" (December 1997), EPA 175-B-97-001, at p. 34.

"PM₁₀" means particulate matter that has an aerodynamic diameter less than or equal to a nominal 10 micrometers (μ m).

BOARD NOTE: The Board added this definition, derived from the parenthetical definition in 40 CFR 50.6(c).

SUBTITLE B CHAPTER I SUBCHAPTER I "PM_{2.5}" means particulate matter that has an aerodynamic diameter less than or equal to a nominal 2.5 micrometers (µm).

BOARD NOTE: The Board added this definition, derived from the parenthetical definition in 40 CFR 50.7(a).

"Prescribed fire" is any fire intentionally ignited by management actions in accordance with applicable laws, policies, and regulations to meet specific land or resource management objectives.

"Traceable" means that a local standard has been compared and certified either directly or via not more than one intermediate standard, to a primary standard, such as a National Bureau of Standards Standard Reference Material (NBS SRM), or a USEPA/NBS-approved Certified Reference Material (CRM).

"USEPA" means the United States Environmental Protection Agency. BOARD NOTE: Derived from 40 CFR 50.1(c). The Board has used "USEPA" in text where USEPA has used "Administrator", where action by USEPA is clearly contemplated. Otherwise, the Board has retained the term "Agency" as defined in this Section.

"Wildfire" is any fire started by an unplanned ignition caused by lightning; volcanoes; other acts of nature; unauthorized activity; or accidental, humancaused actions, or a prescribed fire that has developed into a wildfire. A wildfire that predominantly occurs on wildland is a natural event.

"Wildland" means an area in which human activity and development are essentially non-existent, except for roads, railroads, power lines, and similar transportation facilities. Structures, if any, are widely scattered.

BOARD NOTE: Derived from 40 CFR 50.1 (2016), except as otherwise more specifically indicated.

(Source: Amended at 41 Ill. Reg. 13413, effective October 23, 2017)

Section 243.102 Scope

- a) This Part sets forth the NAAQS adopted by USEPA under section 109 of the CAA (42 USC 7409) and incorporated into this Part pursuant to 415 ILCS 5/7.2 and 10(H).
- b) National primary ambient air quality standards (primary NAAQS) define levels of air quality that USEPA has judged are necessary, with an adequate margin of safety, to protect the public health. National secondary ambient air quality standards (secondary NAAQS) define levels of air quality that USEPA has judged necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. These standards are subject to revision, and additional primary and secondary NAAQS may be promulgated as USEPA deems necessary to protect the public health and welfare.

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	c)	The promulgat	ion of primary and secondary NAAQ	S must not be considered in					
		any manner to	allow significant deterioration of exi	sting air quality in any portion					
		of this State.							
	BOA	RD NOTE: Deri	ved from 40 CFR 50.2 (2012).						
	(Sou	ce: Amended at	37 Ill. Reg. 12882, effective July 29,	, 2013)					

Section 243.103 Applicability

The standards in this Part apply throughout the State of Illinois, except as otherwise provided in this Part.

(Source: Amended at 37 Ill. Reg. 12882, effective July 29, 2013)

Section 243.104 Nondegradation

Existing ambient air quality that is better than the established ambient air quality standards at the date of their adoption will be maintained in its present high quality. Such ambient air quality shall not be lowered unless and until it is proved to the Illinois Environmental Protection Agency (Agency) that the change is justifiable as a result of necessary economic and social development and will not interfere with or become injurious to human health or welfare.

(Source: Amended at 35 Ill. Reg. 18857, effective October 25, 2011).

Section 243.105 Air Quality Monitoring Data Influenced by Exceptional Events

- a) The federal regulations at 40 CFR 50.14 provide that a state, federal land manager, or federal agency can seek USEPA determination that exceedances or violations of an NAAQS are directly due to an exceptional event, so that the State can exclude affected ambient air quality monitoring data from a compliance determination. An exceptional event is a natural event or the result of human activity that is unlikely to recur and which is not reasonably controllable or preventable that meets specified criteria. The federal rule provides that a fireworks display, a prescribed fire, a wildfire, a high wind dust event, a stratospheric intrusion, or an aggregate of events on the same day can be an exceptional event.
- b) The Agency must use the applicable procedures of 40 CFR 50.14 to obtain a USEPA determination of an exceptional event and exclusion of affected ambient air quality monitoring data if the Agency determines that the data are influenced by an exceptional event and should be excluded from a compliance determinaton.
- c) Ambient air quality monitoring data excluded by a USEPA determination pursuant to 40 CFR 50.14 is excluded from use for compliance determination under this Part.

BOARD NOTE: Derived from 40 CFR 50.14 (2016).

(Source: Amended at 41 Ill. Reg. 13413, effective October 23, 2017)

Section 243.106 Monitoring

SUBTITLE B

Pollution levels will be determined by fixed or mobile sampling stations beyond the premises on which a source is located. Stations will be located according to the guildelines for established monitoring networks as developed by the United States Environmental Protection Agency.

Section 243.107 Reference Conditions

All measurements of air quality that are expressed as mass per unit volume (e.g., micrograms per cubic meter, other than for particulate matter (PM_{2.5}) standards contained in Section 243.120(b), (c), and (d) and lead standards contained in Section 243.126(b), are corrected to a reference temperature of 25° C, and to a reference pressure of 760 millimeters of mercury (1013.2 millibars). Measurements of PM_{2.5}, for purposes of comparison to the standards contained in Section 243.120(b), (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).

(Source: Amended at 37 Ill. Reg. 12882, effective July 29, 2013)

Section 243.108 Incorporations by Reference

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

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

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

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

Appendix B to 40 CFR 50 (2018) (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).

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	SUBTITLE BCHAPTER ISUBCHAPTER IAppendix C to 40 CFR 50 (2018) (Reference Measurement Principle and Calibration Procedure for the Measurement of Carbon Monoxide in the Atmosphere (Non-Dispersive Infrared Photometry)), referenced in Section 243.123.
	Appendix D to 40 CFR 50 (2018) (Reference Measurement Principle and Calibration Procedure for the Measurement of Ozone in the Atmosphere), referenced in Section 243.125.
	Appendix F to 40 CFR 50 (2018) (Reference Measurement Principle and Calibration Procedure for the Measurement of Nitrogen Dioxide in the Atmosphere (Gas Phase Chemiluminescence)), referenced in Section 243.124.
	Appendix G to 40 CFR 50 (2018) (Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air), referenced in Section 243.126.
	Appendix H to 40 CFR 50 (2018) (Interpretation of the 1-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.
	Appendix I to 40 CFR 50 (2018) (Interpretation of the 8-Hour Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.
	Appendix J to 40 CFR 50 (2018) (Reference Method for the Determination of Particulate Matter as PM ₁₀ in the Atmosphere), referenced in Section 243.120.
	Appendix K to 40 CFR 50 (2018) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Particulate Matter), referenced in Section 243.120.
	Appendix L to 40 CFR 50 (2018) (Reference Method for the Determination of Fine Particulate Matter as PM _{2.5} in the Atmosphere), referenced in Section 243.120.
	Appendix N to 40 CFR 50 (2018) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Particulate Matter), referenced in Section 243.120.
	Appendix O to 40 CFR 50 (2018) (Reference Method for the Determination of Coarse Particulate Matter as PM _{10-2.5} in the Atmosphere), referenced in appendix Q to 40 CFR 50 and for use in federally required monitoring by the NCore system pursuant to 40 CFR 58.

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	SUBTITLE BCHAPTER ISUBCHAPTER IAppendix P to 40 CFR 50 (2018) (Interpretation of the Primary and Secondary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.
	Appendix Q to 40 CFR 50 (2018) (Reference Method for the Determination of Lead in Particulate Matter as PM10 Collected from Ambient Air), referenced in appendix R to 40 CFR 50.
	Appendix R to 40 CFR 50 (2018) (Interpretation of the National Ambient Air Quality Standards for Lead), referenced in Section 243.126.
	Appendix S to 40 CFR 50 (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Nitrogen (Nitrogen Dioxide)), referenced in Section 243.124.
	Appendix T to 40 CFR 50 (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Oxides of Sulfur (Sulfur Dioxide)), referenced in Section 243.122.
	Appendix U to 40 CFR 50 (2018) (Interpretation of the Primary National Ambient Air Quality Standards for Ozone), referenced in Section 243.125.
	Clean Air Act, 42 USC 7401 et seq. (2016) (for definitions of terms only), referenced in Section 243.102.
	BOARD NOTE: Segments of the Code of Federal Regulations and the United States Code are available for free download as PDF documents from the GPO FDsys website: http://www.gpo.gov/fdsys/.
	USEPA, National Exposure Research Laboratory, Human Exposure & Atmospheric Sciences Division (MD-D205-03), Research Triangle Park, NC 27711. The following documents incorporated by reference are available from this source:
	"List of Designated Reference and Equivalent Methods" (June 15, 2018) (referred to as the "List of Designated Methods" and referenced in Sections 243.101, 243.120, 243.122, 243.123, 243.124, 243.125, and 243.126.
	BOARD NOTE: The List of Designated Methods is available for free download as a PDF document from the USEPA, Technology Transfer, Ambient Monitoring Technology Information Center website: http://www.epa.gov/ttn/amtic/criteria.html.
(5	ource: Amended at 43 Ill. Reg. 3034, effective February 19, 2019)

(Source: Amended at 43 Ill. Reg. 3034, effective February 19, 2019)

SUBTITLE B CHAPTER I SU SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section 243.120 PM₁₀ and PM_{2.5}

- a) 1987 Primary and Secondary 24-Hour NAAQS for PM₁₀
 - 1) The level of the 1987 primary and secondary 24-hour NAAQS for PM_{10} is 150 µg/m³, 24-hour average concentration. The 1987 primary and secondary NAAQS for PM_{10} is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³, as determined in accordance with appendix K to 40 CFR 50, incorporated by reference in Section 243.108, is equal to or less than one.
 - 2) This subsection (a)(2) corresponds with 40 CFR 50.6(b), a provision marked "reserved" by USEPA. This statement maintains structural consistency with the corresponding federal regulation.
 - 3) For the purpose of determining attainment of the 1987 primary and secondary 24-hour NAAQS for PM₁₀, particulate matter must be measured in the ambient air as PM₁₀ by a method that fulfills either of the following requirements:
 - A) An FRM based on appendix J to 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108; or
 - B) An FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.

BOARD NOTE: This subsection (a) is derived from 40 CFR 50.6. USEPA adopted 1997 primary NAAQS for PM_{10} 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_{10} are included in this subsection (a).

- b) 1997 Primary and Secondary Annual Average and 24-Hour NAAQS for PM_{2.5}
 - 1) The 1997 primary and secondary annual average NAAQS for PM_{2.5} is $15.0 \ \mu\text{g/m}^3$, annual arithmetic mean concentration, and the 1997 primary and secondary 24-hour NAAQS for PM_{2.5} is 65 $\ \mu\text{g/m}^3$, 24-hour average concentration, measured in the ambient air as PM_{2.5} by a method that fulfills either of the following requirements:
 - An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or

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	SUBT	ITLE B B)	CHAPTER I An FEM designated by USEPA and listed in the Methods, incorporated by reference in Section 2	
	2)	when accord	997 primary and secondary annual average NAAG the annual arithmetic mean concentration, as deterdance with appendix N of 40 CFR 50, incorporate on 243.108, is less than or equal to $15.0 \mu\text{g/m}^3$.	rmined in
	3)	the 98 with a	997 primary and secondary 24-hour NAAQS for 18th percentile 24-hour concentration, as determine appendix N of 40 CFR 50, incorporated by referent 08, is less than or equal to 65 μ g/m ³ .	d in accordance
	4)	apply Count NAA of Illin standa	997 primary annual PM _{2.5} NAAQS in this subsection in any area of Illinois except Madison, Monroe, a ties and the Baldwin Village area of Randolph Co QS for PM _{2.5} in this subsection (b) will no longer nois after USEPA has redesignated that area as att ard. The 1997 secondary annual NAAQS for PM _{2.5} PM _{2.5} NAAQS in this subsection (b) remain applied	and St. Clair unty. The primary apply in any area tainment for that 2.5 and the 1997 24-
		40 CF unclas	RD NOTE: USEPA has codified the area designa FR 81.314. All areas of Illinois were designated a ssifiable/attainment except Madison, Monroe, and he Baldwin Village area of Randolph County.	ttainment or
	The E subse	Board ad ctions (l	TE: This subsection (b) is derived from 40 CFR 5 lded the revocation clause of 40 CFR 50.13(d) as 1 b)(4) and (c)(4), even though USEPA did not add g 40 CFR 50.7.	both this
c)	2006	Primary	v and Secondary Annual Average and 24-Hour NA	AQS for PM _{2.5}
	1)	15.0 µ and se conce	006 primary and secondary annual average NAA0 μ /m ³ , annual arithmetic mean concentration, and econdary 24-hour NAAQS for PM _{2.5} is 35 μ g/m ³ , ntration, measured in the ambient air as PM _{2.5} by s either of the following requirements:	the 2006 primary 24-hour average
		A)	An FRM based on appendix L of 40 CFR 50, in	corporated by

- An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108; or
- B) An FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
- 2) The 2006 primary and secondary annual average NAAQS for PM_{2.5} is met when the annual arithmetic mean concentration, as determined in

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	SUBTI	accord	CHAPTER ISUBCHAPTER Ilance with appendix N of 40 CFR 50, incorporated by reference inn 243.108, is less than or equal to $15.0 \ \mu g/m^3$.
	3)	the 98 with a	D06 primary and secondary 24-hour NAAQS for PM _{2.5} is met when th percentile 24-hour concentration, as determined in accordance ppendix N of 40 CFR 50, incorporated by reference in Section 08, is less than or equal to 35 μ g/m ³ .
	4)	any ar the Ba NAA(after U	rimary annual PM _{2.5} NAAQS in this subsection (c) does not apply in ea of Illinois except Madison, Monroe, and St. Clair Counties and Ildwin Village area of Randolph County. The primary annual PM _{2.5} QS in this subsection (c) will no longer apply in any area of Illinois JSEPA has redesignated that area as attainment for that standard. econdary annual PM _{2.5} NAAQS in this subsection (c) remains able.
		40 CF unclas	RD NOTE: USEPA has codified the area designations for Illinois in R 81.314. All areas of Illinois were designated attainment or sifiable/attainment except Madison, Monroe, and St. Clair Counties e Baldwin Village area of Randolph County.
	in this USEP corres	s subsect A retain ponding	TE: The primary and secondary annual average NAAQS for PM _{2.5} tion (c) is the 1997 primary annual average NAAQS for PM _{2.5} . ned the standard and included it with the 2006 standard in g 40 CFR 50.13. <i>See</i> 71 Fed. Reg. 61144, 61176 (Oct. 17, 2006). on (c) is derived from 40 CFR 50.13.
d)	2012	Primary	Annual Average and 24-Hour NAAQS for PM _{2.5}
	1)	arithm PM2.5	012 primary annual average NAAQS for PM _{2.5} is 12.0 μ g/m ³ annual letic mean concentration, and the 2012 primary 24-hour NAAQS for is 35 μ g/m ³ 24-hour average concentration, measured in the ambient PM _{2.5} by a method that fulfills either of the following requirements:
		A)	An FRM based on appendix L of 40 CFR 50, incorporated by reference in Section 243.108, and designated by USEPA and listed in 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)	arithm N of 4	D12 primary annual NAAQS for PM _{2.5} is met when the annual netic mean concentration, as determined in accordance with appendix 0 CFR 50, incorporated by reference in Section 243.108, is less than al to $12.0 \ \mu g/m^3$.

3) The 2012 primary 24-hour NAAQS for PM_{2.5} is met when the 98th percentile 24-hour concentration, as determined in accordance with

SUBTITLE BCHAPTER ISUBCHAPTER Iappendix N of 40 CFR 50, incorporated by reference in Section 243.108,
is less than or equal to $35 \ \mu g/m^3$.

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

(Source: Amended at 43 Ill. Reg. 3034, effective February 19, 2019)

Section 243.122 Sulfur Oxides (Sulfur Dioxide)

- a) 1971 Primary Annual Average and 24-Hour NAAQS for Sulfur Oxides (as Sulfur Dioxide (SO₂))
 - 1) The level of the 1971 primary annual average NAAQS for sulfur oxides is 0.030 ppm, not to be exceeded in a calendar year. The annual arithmetic mean must be rounded to three decimal places (fractional parts equal to or greater than 0.0005 ppm must be rounded up).
 - 2) The level of the 1971 primary 24-hour NAAQS for sulfur oxides is 0.14 ppm, not to be exceeded more than once per calendar year. The 24-hour averages must be determined from successive non-overlapping 24-hour blocks starting at midnight each calendar day and must be rounded to two decimal places (fractional parts equal to or greater than 0.005 ppm must be rounded up).
 - 3) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM described in appendix A-2 to 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
 - 4) To demonstrate attainment, the annual arithmetic mean and the second-highest 24-hour averages must be based upon hourly data that are at least 75 percent complete in each calendar quarter. A 24-hour block average must be considered valid if at least 75 percent of the hourly averages for the 24-hour period are available. In the event that only 18-, 19-, 20-, 21-, 22-, or 23-hour averages are available, the 24-hour block average must be computed as the sum of the available hourly averages using the number of hours (i.e., 18, 19, etc.) as the divisor. If less than 18-hour averages are available, but the 24-hour average would exceed the level of the standard when zeros are substituted for the missing values, subject to the rounding rule of subsection (b) of this Section, this must be considered a valid 24-hour average. In this case, the 24-hour block average must be computed as the sum of the available hourly averages divided by 24.
 - 5) The 1971 primary annual average and 24-hour NAAQS for sulfur oxides set forth in this subsection (a) remains applicable to all areas notwithstanding the promulgation of the 2010 primary one-hour NAAQS for sulfur oxides in subsection (c) of this Section. The Board will delete the 1971 primary annual average and 24-hour NAAQS for sulfur oxides

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set forth in th	nis subsection (a) after fulfillment of	f the conditions recited by			
USEPA in corresponding 40 CFR 50.4(e).					

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

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

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- 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 threehour averages must be determined from successive non-overlapping threehour blocks starting at midnight each calendar day and must be rounded to one decimal place (fractional parts equal to or greater than 0.05 ppm must be rounded up).
- 2) Sulfur oxides must be measured in the ambient air as SO₂ by the FRM described in appendix A-2 to 40 CFR 50, incorporated by reference in Section 243.108, or by an FEM designated by USEPA and listed in List of Designated Methods, incorporated by reference in Section 243.108.
- 3) To demonstrate attainment, the second-highest three-hour average must be based upon hourly data that are at least 75 percent complete in each calendar quarter. A three-hour block average must be considered valid only if all three hourly averages for the three-hour period are available. If only one or two hourly averages are available, but the three-hour average would exceed the level of the standard when zeros are substituted for the missing values, subject to the rounding rule of subsection (b)(1), this must be considered a valid three-hour average. In all cases, the three-hour block average must be computed as the sum of the hourly averages divided by three.

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

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

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	measured by incorporated USEPA and	the 2010 one-hour primary NAAQS an FRM based on appendix A-1 or A by reference in Section 243.108, or b listed in List of Designated Methods, Section 243.108.	A-2 of 40 CFR 50, by an FEM designated by
	primary NAAQS for	his subsection (c) is derived from 40 (c) is derived from 40 (c) remains in effect until the feder alfilled, as outlined in subsection (a)($\frac{1}{2}$	al conditions of 40 CFR

(Source: Amended at 43 Ill. Reg. 3034, effective February 19, 2019)

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/m³), not to be exceeded more than once per year; and
 - 2) A one-hour average concentration of 35 ppm (40 mg/m^3), 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:
 - 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: This Section is derived from 40 CFR 50.8 (2012).

(Source: Amended at 37 Ill. Reg. 12882, effective July 29, 2013)

Section 243.124 Nitrogen Oxides (Nitrogen Dioxide as Indicator)

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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 ₂).						
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 ₂ .						
-)	$T_{1} = 1 = 1 = 541 = 1071 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =$						
c)	The level of the 1971 secondary annual average NAAQS for nitrogen oxides is 0.053 ppm $(100 \ \mu g/m^3)$, annual arithmetic mean concentration, measured in the ambient air as NO ₂ .						
	$(100 \ \mu g/m^2)$, annual arithmetic mean concentration, measured in the ambient air as NO ₂ .						
d)	The levels of the standards in subsections (a) through (c) of this Section must be						
u)	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						
0)	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.						
a)	The 1971 secondary annual average NAAQS for nitrogen oxides in subsection (c) of this						
g)	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						

BOARD NOTE: This Section is derived from 40 CFR 50.11 (2012).

sampling days in each calendar quarter.

(Source: Amended at 37 Ill. Reg. 12882, effective July 29, 2013)

Section 243.125 Ozone

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

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	SUBT	TTLE B CHAPTER I SUBCHAPTER I incorporated by reference in Section 243.108, or an FEM designated by USEPA and listed in the List of Designated Methods, incorporated by reference in Section 243.108.
	2)	The 2008 primary and secondary eight-hour NAAQS for ozone ambient air quality standards are met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.075 ppm, as determined in accordance with appendix P to 40 CFR 50, incorporated by reference in Section 243.108.
	BOA	RD NOTE: This subsection (a) is derived from 40 CFR 50.15.
b)	2015	Primary and Secondary Eight-Hour NAAQS for Ozone
	1)	The level of the eight-hour primary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.
	2)	The eight-hour primary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.
	3)	The level of the secondary NAAQS for ozone is 0.070 ppm, daily maximum eight-hour average ozone concentration, measured by a reference method based on appendix D to 40 CFR 50, incorporated by reference in Section 243.108, and designated in accordance with part 53 of this chapter or an equivalent method designated by USEPA and listed in the List of Designated Methods or a Federal Register notice incorporated by reference in Section 243.108.
	4)	The eight-hour secondary NAAQS for ozone is met at an ambient air quality monitoring site when the three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 0.070 ppm, as determined in accordance with appendix U to 40 CFR 50, incorporated by reference in Section 243.108.
	BOA	RD NOTE: This subsection (b) is derived from 40 CFR 50.19.
(Sou	irce: An	nended at 43 Ill. Reg. 3034, effective February 19, 2019)
Section 243.126		Lead

a) 1978 Primary and Secondary Quarterly Average NAAQS for Lead

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		BOAI	RD NO	TE: This subsection (a) is derived from 40 CFR 50.	12. USEPA		
		desigr	nated Gi	anite City as nonattainment with the 2008 primary a	and secondary		
		three-	month a	verage NAAQS for lead effective December 31, 20	11 and an area		
				fective December 31, 2012. See 76 Fed. Reg. 7209			
			<u> </u>	Fed Reg. 71033, 71042 (Nov. 22, 2010). Thus, this			
			· ·	blete on December 31, 2012, and the Board removed it.			
		vi ub o	0001010				
	b)	2008	Primary	and Secondary Three-Month Average NAAQS for	Lead		
		1)	The 2	008 primary and secondary three-month average NA	AOS for lead		
		1)		s compounds is 0.15 μ g/m ³ , arithmetic mean concen	-		
				month period, measured in the ambient air as lead by			
				following:			
			10110 W	ing.			
			A)	An FRM based on appendix G of 40 CFR 50, inco	rnorated by		
			,	reference in Section 243.108, and designated by U			
				in the List of Designated Methods, incorporated by reference in			
				Section 243.108; or			
				5661011 2+5.100, 01			
			B)	An FEM designated by USEPA and listed in the L	ist of Designated		
			,	Methods, incorporated by reference in Section 243	•		
			Weinbus, morporated by reference in Section 245.100.				
		2)	The 2	008 primary and secondary three-month average NA	AQS for lead		
		,		et when the maximum arithmetic three-month mean	-		
			for a t	hree-year period, as determined in accordance with	appendix R of		
				R 50, incorporated by reference in Section 243.108,			
				to 0.15 μ g/m ³ .			
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BOARD NOTE: This subsection (b) is derived from 40 CFR 50.16.

(Source: Amended at 43 Ill. Reg. 3034, effective February 19, 2019)

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

NAAQS (Level) Regulatory Citations	Air quality data collected for calendar year	Event flagging & initial description deadline	Detailed documentation submission deadline
2006 24-hour PM _{2.5} (35 μg/m ³) Section 243.120(c)(1) 40 CFR 50.13(a) 71 Fed. Reg. 61144 (Oct. 17, 2006)	2004-2006	October 1, 2007	April 15, 2008

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2008 eight-hour ozone (0.075 ppm) Section 243.125(c)(1) 40 CFR 50.15(a) 73 Fed. Reg. 16436 (Mar. 27, 2008)	2005-2007 2008 2009	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first	June 18, 2009 June 18, 2009 60 days after the end of the calendar quarter in which the event occurred or February 5, 2010, whichever date occurred first
2010 one-hour nitrogen oxides (as NO ₂) (100 ppb) Section 243.124(b) 40 CFR 50.11(b) 75 Fed. Reg. 6474 (Feb. 9, 2010)	2008 2009 2010	July 1, 2010 July 1, 2010 April 1, 2011	January 22, 2011 January 22, 2011 July 1, 2010
2010 one-hour sulfur oxides (as SO ₂) (75 ppb) Section 243.122(c)(1) 40 CFR 17(a) 75 Fed. Reg. 35520 (June 22, 2010)	2008 2009 2010 2011	October 1, 2010 October 1, 2010 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first	June 1, 2011 June 1, 2011 June 1, 2011 60 days after the end of the calendar quarter in which the event occurred or March 31, 2012, whichever date occurred first

BOARD NOTE: Derived from table 1 to 40 CFR 50.14(c). USEPA noted that the information in this table of revised deadlines only applies to data that USEPA will use to establish the 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) 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 PM2.5 are the same as those prescribed by 40 CFR 50.14 (corresponding with Section 243.105). The Board omitted those footnotes as unnecessary in the Illinois rules. Corresponding federal table 1 states that the 2012 primary annual average NAAQS for PM2.5 was "Promulgated December 14, 2012". 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. 19848, effective November 27, 2013)