

ILLINOIS POLLUTION CONTROL BOARD  
November 3, 1988

IN THE MATTER OF: )  
 )  
AMENDMENTS TO 35 ILL. ADM. CODE ) R88-28  
211 AND 243, AIR QUALITY STANDARDS )  
AND MEASUREMENT METHODS FOR PM<sub>10</sub> )

PROPOSED RULE. FIRST NOTICE.

PROPOSED OPINION AND ORDER OF THE BOARD (by J.D. Dumelle):

This matter comes before the Board upon a regulatory proposal filed by the Illinois Environmental Protection Agency (Agency) on October 20, 1988. The Agency proposes amendments to 35 Ill. Adm. Code 211 and 243 in order to adopt a PM<sub>10</sub> ambient air quality standard for particulate matter. The Board adopts the Agency's proposal for First Notice today to cause publication of the proposal in the Illinois Register so that affected persons are made aware of the proposal. As public hearings are yet to be held, the Board will not at this time take a position on the merits of the Agency's proposal.

For its "statement of reasons" to support the proposal, the Agency stated:

Sections 108 and 109 of the Clean Air Act authorize the United States Environmental Protection Agency ("USEPA") to review and revise the health and welfare criteria upon which the national primary and secondary ambient air quality standards ("NAAQS") are based. On July 1, 1987, USEPA promulgated revisions to the NAAQS for particulate matter (52 Fed. Reg. 24634). The use of the "total suspended particulate matter" ("TSP") indicator for particulate matter was replaced by an indicator that includes only those particles with an aerodynamic diameter less than or equal to 10 micrometers ("PM<sub>10</sub>"). A primary 24-hour PM<sub>10</sub> standard of 150 micrograms per cubic meter (ug/m<sup>3</sup>) with no more than one exceedance per year was adopted, as was an annual PM<sub>10</sub> standard of 50 ug/m<sup>3</sup>, expected annual arithmetic mean. Secondary standards identical to the primary standards in all respects were also adopted. The Agency has, therefore, proposed that these PM<sub>10</sub> standards be adopted as Illinois

standards, suitable for utilization in the Illinois State Implementation Plan ("SIP).

The Hearing Officer is directed to schedule hearings and to provide for pre-filing of testimony and exhibits so as to effectuate an efficient information gathering process.

ORDER

The Board hereby proposes for First Notice the following amendments to 35 Ill. Adm. Code 211 and 243. The Clerk is directed to submit the proposed amendments to the Secretary of State for publication in the Illinois Register.

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE B: AIR POLLUTION  
CHAPTER I: POLLUTION CONTROL BOARD  
SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS  
FOR STATIONARY SOURCES

PART 211  
DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section  
211.101 Incorporations by Reference  
211.102 Abbreviations and Units

SUBPART B: DEFINITIONS

Section  
211.121 Other Definitions  
211.122 Definitions

Appendix A Rule into Section Table  
Appendix B Section into Rule Table

AUTHORITY: Implementing Sections 9 and 10 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1987, ch. 111<sup>1/2</sup>, pars. 1009, 1010 and 1027).

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective

December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill Reg. 7621, effective April 11, 1988; amended in R88-28 at \_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

SUBPART A: GENERAL PROVISIONS

Section 211.101 Incorporations by Reference

The following materials are incorporated by reference:

- a) "Evaporation Loss from Floating Roof Tanks," American Petroleum Institute Bulletin 2517, 1962
- b) Ringelmann Chart, Information Circular 833 (Revision of 1C7718), Bureau of Mines, U.S. Department of Interior, May 1, 1967
- c) Standard Industrial Classification Manual, Superintendent of Documents, Washington, D.C. 20402, 1972
- d) American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103

A.S.T.M.D-86  
A.S.T.M.D-240-64  
A.S.T.M.D-323  
A.S.T.M. D-369-69(1971)  
A.S.T.M.D-396-69  
A.S.T.M.D-900-55  
A.S.T.M.D-975-68  
A.S.T.M.D-1826-64  
A.S.T.M.D-2015-66  
A.S.T.M.D-2880-71

- e) 40 CFR 51.100, 1987

(Board note: The incorporations by reference listed above contain no later amendments or editions.)

SUBPART B: DEFINITIONS

Section 211.122 Definitions

PM<sub>10</sub>": particulate matter with an aerodynamic diameter equal to or less than 10 micrometers as defined in 40 CFR 51.100 (incorporated by reference in Section 211.101). Ambient air concentrations for PM<sub>10</sub> are usually expressed in micrograms per cubic meter (ug/m<sup>3</sup>).

(SOURCE: Amended at \_\_\_\_ Ill. Reg.  
effective \_\_\_\_\_)

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

SUBPART A: GENERAL PROVISIONS

Section	
243.101	Definitions
243.102	Preamble
243.103	Applicability
243.104	Nondegradation
243.106	Monitoring
243.107	Reference Conditions
243.108	Incorporations by Reference

SUBPART B: STANDARDS AND MEASUREMENT METHODS

Section	
243.120	<u>PM<sub>10</sub></u>
243.121	Particulates
243.122	Sulfur Oxides (Sulfur Dioxide)
243.123	Carbon Monoxide
243.124	Nitrogen Dioxide
243.125	Ozone
243.126	Lead

Appendix A	Rule into Section Table
Appendix B	Section into Rule Table
Appendix C	Past Compliance Dates

AUTHORITY: Implementing Section 10 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1987, ch. 111 1/2, pars. 1010 and 1027).

SOURCE: Adopted as Chapter 2: Air Pollution, Part III: Air Quality Standards, in R,1-23, 4 PCB 191, filed and effective April 14, 1972; amended in R80-11, 46 PCB 125, 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. 13579; amended in R88-28 at \_\_\_\_ Ill. Reg. \_\_\_\_\_, Effective \_\_\_\_\_.

SUBPART A: GENERAL PROVISIONS

Section 243.108	Incorporations by Reference
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The following materials are incorporated by reference:

- a) High volume sampler method, 40 CFR 50, Appendix B (1982), 36 Fed. Reg. 22,388, November 25, 1971.
- b) Pararosaniline method, 40 CFR 50, Appendix A (1982).
- c) Non-dispersive infrared spectrometry technique, 40 CFR 50, Appendix C (1982), 36 Fed. Reg. 22,391, November 25, 1971.
- d) Colorimetric method, 36 Fed. Reg. 22,396, November 25, 1971.
- e) Ozone-ethylene reaction method, 40 CFR 50, Appendix D (1982), 36 Fed. Reg. 22392, November 25, 1971.
- f) Lead, 40 CFR 50, Appendix G (1982), 43 Fed. Reg. 46,258, October 5, 1978, as amended at 44 Fed. Reg. 37,915, June 29, 1979; 46 Fed. Reg. 44,163, September 3, 1981.
- g) 40 CFR 50, Appendix J, 1987
- h) 40 CFR 50, Appendix K, 1987

(Board note: The incorporations by reference listed above contain no later amendments or editions.)

SUBPART B: STANDARDS AND MEASUREMENT METHODS

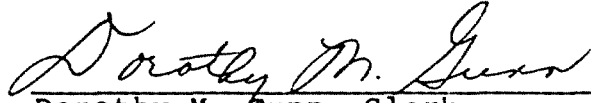
Section 243.120 PM<sub>10</sub>

- a) Standards. The ambient air quality standards for PM<sub>10</sub> are:
  - 1) An annual arithmetic mean concentration of 50 micrograms per cubic meter; and
  - 2) A maximum 24-hour concentration of 150 micrograms per cubic meter, not to be exceeded more than once per year.
- b) Measurement Method. For determining conformance with the PM<sub>10</sub> air quality standards, PM<sub>10</sub> shall be measured by the method described in 40 CFR 50, Appendix J, (incorporated by reference in Section 243.108). The computations necessary for analyzing particulate matter data to determine attainment of the PM<sub>10</sub> standards are described in 40 CFR 50, Appendix K (incorporated by reference in Section 243.108).

(SOURCE: Added at \_\_\_ Ill. Reg.  
effective \_\_\_\_\_)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Proposed Opinion and Order was adopted on the 3<sup>rd</sup> day of November, 1988 by a vote of 6-0.

  
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Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board