

WEST VIRGINIA ADMINISTRATIVE REGULATIONS

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Particulate Matter"

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ABSTRACT

The amendments to Regulation VIII (1975) were adopted by the Commission on the 8th day of January, 1979. Regulation VIII (1975), as amended, was retitled Regulation VIII (1979) and became effective May 1, 1979, and was filed with the Secretary of State March 30, 1979, and superseded Regulation VIII (1975). The amendments to Regulation VIII (1972) were adopted by the West Virginia Air Pollution Control Commission on the 25th day of June, 1975. Regulation VIII (1972), as amended, was retitled Regulation VIII (1975), and became effective August 1, 1975 and was filed with the Secretary of State June 26, 1975, and superseded Regulation VIII (1972). The amendments to Regulation VIII (1970) were adopted by the West Virginia Air Pollution Control Commission on the 19th day of January 1972. Regulation VIII (1970) was retitled Regulation VIII (1972) and became effective March 15, 1972, and was filed with the Secretary of State February 2, 1972. Regulation VIII (1970) was adopted by the West Virginia Air Pollution Control Commission on the 31st day of August 1970, and became effective October 1, 1970, and was filed with the Secretary of State August 31, 1970.

Title 45
Legislative rule

~~WEST VIRGINIA ADMINISTRATIVE REGULATIONS~~
Air Pollution Control Commission

Chapter 16-20
Series VIII e 8
(1979)e

Subject: ~~Regulation VIII~~ - "Ambient Air Quality Standards for Sulfur Oxides and Particulate Matter"

Section 1 General.

0.01. Scope.

Series 8
~~Regulation VIII~~ establishes ambient air quality standards for sulfur oxides and particulate matter.

0.02. Authority. *W.Va. Code § 16-20-5*

This regulation is ~~issued~~ under the authority of the West Virginia Code, Chapter 16, Article 20, Section 5. This regulation relates to West Virginia Code, Chapter 16, Article 20, Sections 1 through 13.

0.03. Filing Date.

This regulation was promulgated or last amended on the 8th day of January, 1979, was filed with the office of the Secretary of State the 30th day of March, 1979. Further, this regulation was filed pursuant to West Virginia Code, Chapter 29A, Article 2, Section 5 on the 30th day of December, 1982, in the office of the Secretary of State.

0.04. Effective Date.

The effective date of this regulation is the 1st day of May, 1979.

0.05. Type.

This regulation is a legislative rule as defined in West Virginia Code, Chapter 29A, Article 2.

Section ² Anti-Degradation Policy

- 2.1 In the best interests of the State of West Virginia it is the objective of the Commission to obtain and maintain the cleanest air possible, consistent with the best available technology.
- 2.2 Where the present ambient air is of better quality than the established standards, the Commission will develop long-range plans to protect the difference between the present quality and the established standards. The plans will be based upon the best available forecasts of probable land and air uses in such areas of high air quality.
- 2.3 The air quality of these areas will not be lowered unless it has been clearly demonstrated to the Commission that such a change is justifiable as a result of necessary economic or social development and will not result in a statutory air pollution. This will require that any industrial, public, or private project or development which could constitute a new source of air pollutants, within an area of such high air quality, provide the best practicable control available under existing technology as part of the initial project.

Section ~~2~~³ Definitions

- 2.01. "Air Pollutants" shall mean solids, liquids, or gases which, if discharged into the air, may result in a statutory air pollution.
- 2.02. "Air Pollution", 'statutory air pollution', shall have the meaning ascribed to it in Section Two of Chapter Sixteen, Article Twenty of the Code of West Virginia, as amended.
- 2.03. "Commission" shall mean the West Virginia Air Pollution Control Commission.
- 2.04. "Person" shall mean any and all persons, natural or artificial, including any municipal, public, or private corporation organized or existing under the law of this or any other state or country, and any firm, partnership, or association of whatever nature.
- 2.05. "Particulate Matter" shall mean any material, except uncombined water, that exists in a finely divided form as a liquid or solid.
- 2.06. "Standard Conditions" shall mean, for the purposes of this regulation, a temperature of 25° C and a pressure of 760 millimeters of mercury column.
- 2.07. "Ambient Air Quality Standards" shall mean the numerical expression of a specified concentration level for a particular air pollutant in the ambient air and the time-averaging interval over which that concentration level is measured.

Section 3.4 Ambient Air Quality Standards

3.01. The following ambient air quality standards shall not be exceeded at any sampling site:

(a) Sulfur Dioxide

Primary Standard

Annual Arithmetic Mean - 80 micrograms per cubic meter (0.03 parts per million)

Maximum 24-Hour Concentration - 365 micrograms per cubic meter (0.14 ppm) - not to be exceeded more than once per year

Secondary Standard

Maximum Three (3) Hour Concentration - 1300 micrograms per cubic meter (0.50 ppm) - not to be exceeded more than once per year

(b) Particulate Matter

Primary Standard

Annual Geometric Mean - 75 micrograms per cubic meter

Maximum 24-Hour Concentration - 260 micrograms per cubic meter - not to be exceeded more than once per year

Secondary Standard

Maximum 24-Hour Concentration - 150 micrograms per cubic meter - not to be exceeded more than once per year

Section 4.5 Methods of Measurement

4.01. Suspended particulate matter concentrations shall be determined by high-volume filtration or by such other

methods approved as equally or more specific, accurate, sensitive, and reproducible by the West Virginia Air Pollution Control Commission.¹

4.02. Sulfur dioxide concentrations shall be determined by any of the methods listed below or by such other methods approved as equally or more specific, accurate, sensitive, and reproducible by the West Virginia Air Pollution Control Commission:

- (a) Utilization of the West-Gaeke (pararosaniline) method as modified by Scaringelli, et al.²
- (b) The use of a continuous sampling and recording instrument based on coulometric, colorimetric, or an equivalent principle and utilizing the modified West-Gaeke analytical procedure as a standard means of calibration.

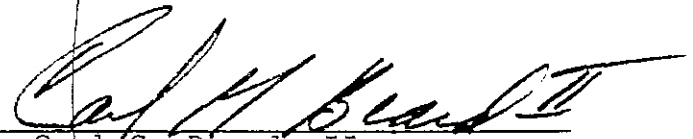
Section 5:

Effective Date

Regulation Series VIII (1975) was amended by the Commission on the 8th day of January, 1979, and shall become effective the 1st day of May, 1979. Regulation Series VIII (1975), as amended, shall henceforth be cited as Regulation Series VIII (1979). Regulation Series VIII (1975) was adopted by the Commission on the 25th day of June, 1975, and became effective the 1st day of August, 1975, and superseded Regulation Series VIII (1972) which was adopted by the Commission on the 19th day of January, 1972, and became effective March 15, 1972.

APCC
Adm. Reg. 16-20
Series VIII

The foregoing is a true and correct copy of the West Virginia
Air Pollution Control Commission Regulation Series VIII (1979)
as adopted on the 8th day of January, 1979.



Carl G. Beard, II
Secretary
West Virginia Air Pollution
Control Commission

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Subject: Regulation VIII - "Ambient Air Quality Standards for
Sulfur Oxides and Particulate Matter"

REFERENCES

¹"Air Pollution Measurements of the National Air Sampling Network:
Analysis of Suspended Particulates, 1957-1961." Public Health
Service Pub. No. 978, Washington, D. C., 1962. @ ER@

²Scaringelli, F. P., Saltzman, B. E., and Frey, S. A., "Spectro-
photometric Determination of Atmospheric Sulfur Dioxide." Analyt-
ical Chemistry, Vol. 39, pp. 1709-1719, December, 1967.

@ BR@ EP. NOTE!