



STATE OF WEST VIRGINIA
OFFICE OF THE SECRETARY OF STATE
CHARLESTON 25305

A. JAMES MANCHIN
SECRETARY OF STATE

STATE REGISTER FILING

I, Carl G. Beard, II, Secretary,
Title or Position

Air Pollution Control Commission, hereby submit to record in
Department or Division

the State Register on 8 1/2 x 11" paper two (2) copies of

- proposed rules and regulations concerning topics of material not covered by existing rules and regulations;
- proposed rules and regulations superseding rules and regulations already on file;
- notice of hearing;
- findings and determinations;
- rules and regulations; or
- other - specify (

FILED IN THE OFFICE OF
SECRETARY OF STATE OF
WEST VIRGINIA

THIS DATE 3-30-79

This filing pertains to Regulation Series VIII - Ambient Air Quality
Standards for Sulfur Oxides and Particulate Matter.

Chapter 16
Article 20
Series VIII
Section 3.01. (b) and 5.
Page No. 4 and 5

- proposed rules and regulations are required to go to Legislative Rule Making Committee;
- proposed rules and regulations are excluded from Legislative Rule Making Committee;

March 30, 1979
Date Submitted

Carl G. Beard, II
Signature of Person Authorizing
this Filing Carl G. Beard, II

**WEST VIRGINIA
AIR POLLUTION CONTROL COMMISSION**

FINDINGS AND DETERMINATIONS

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

Findings

(1) On November 4, 1978, the West Virginia Air Pollution Control Commission published notice of hearing concerning proposed amendments to Regulation Series VIII.

(2) On November 6, 1978, notice of hearing was filed with the West Virginia Secretary of State for publishing in the State Register.

(3) On December 7, 1978, the West Virginia Air Pollution Control Commission held a public hearing to receive testimony concerning the proposed revisions of the ambient air quality standard for total suspended particulate matter.

(4) On January 8, 1979, the Commission adopted Regulation Series VIII, as amended.

Determination

(1) The West Virginia Air Pollution Control Commission determined that it was in the best interest of the State of West Virginia to amend Regulation Series VIII in order to make West Virginia's ambient particulate standards identical to the ambient particulate standards of the United States Environmental Protection Agency.

**WEST VIRGINIA
AIR POLLUTION CONTROL COMMISSION**

Page Two

(2) Regulation Series VIII, as amended, will be submitted, upon final approval, to the United States Environmental Protection Agency as part of the revisions to the West Virginia Implementation Plan, in accordance with the Clean Air Act of 1977.

WEST VIRGINIA ADMINISTRATIVE REGULATIONS

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

INDEX.

Section 1. Anti-Degradation Policy.

Section 2. Definitions.

- 2.01. - "Air Pollutants"
- 2.02. - "Air Pollution"
- 2.03. - "Commission"
- 2.04. - "Person"
- 2.05. - "Particulate Matter"
- 2.06. - "Standard Conditions"
- 2.07. - "Ambient Air Quality Standards"

Section 3. Ambient Air Quality Standards.

Section 4. Methods of Measurement.

Section 5. Effective Date.

REFERENCES.

WEST VIRGINIA ADMINISTRATIVE REGULATIONS
Air Pollution Control Commission

Chapter 16-20
Series VIII
(1975)
(1979)

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

Section 1. Anti-Degradation Policy.

4-04. 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.

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.

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. 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. 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

~~Annual Geometric Mean - 60 micrograms per cubic meter~~

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

Section 4. 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

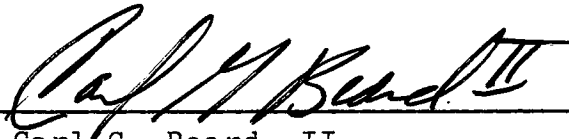
4.02. Sulfur dioxide concentrations shall be determined by any of the methods listed below or by such other methods approved as equally or more specific, accurate, sensitive, and reproducible by the West Virginia Air Pollution Control Commission:

- (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.

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.

A handwritten signature in cursive script, reading "Carl G. Beard, II", is written over a solid horizontal line.

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

WEST VIRGINIA ADMINISTRATIVE REGULATIONS

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.

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