

REGULATION II
PERMITS

RULE 213 CONTINUOUS EMISSIONS MONITORING

(Adopted by the ARB June 22, 1977; Revised February 16, 1994 and March 21, 2001.)

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PART 1 GENERAL

1.1 Purpose

The purpose of this Rule is to provide requirements and standards for continuous emissions monitoring systems (CEMS).

1.2 Applicability

The provisions of this Rule shall apply to: electric power generation equipment subject to Title IV (Acid Deposition Control) of the federal Clean Air Act with nameplate generation capacities of at least 25 megawatts (MW); to fossil fuel-fired steam generators with a rated heat input of 250 million British thermal units (MMBtu) or greater per hour; and to any source required to install CEMS as required to prove compliance with air pollution requirements pursuant to an Authority to Construct or Permit to Operate issued by the District.

1.3 Exemptions

1.3.1 For peaking units subject to this Rule, the NO_x emissions concentrations may be measured and recorded using one of the methods provided under 40 Code of Federal Regulations (CFR) Part 75, Section 75.12(c) "Specific Provisions for Monitoring NO_x Emissions (NO_x and Diluent Gas Monitors: Gas-fired Peaking Units or Oil-fired Peaking Units)", rather than by CEMS as required by Part 3 herein.

1.4 Effective Dates

This Rule has been in effect since June 22, 1977. The Rule in its present form is effective on March 21, 2001.

1.5 References

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The requirements of this Rule arise from the provisions of the federal Clean Air Act and its amendments (42 U.S.C. Section 7401 *et seq.*) and California Health and Safety Code Sections 40702 and 42706.

PART 2 DEFINITIONS

Unless otherwise defined within this Part, the definitions used for the purposes of this Rule shall be those given in 40 CFR Parts 51, 60, 72, or 75.

2.1 Air Resources Board (ARB)

State of California Air Resources Board.

2.2 Authority to Construct (ATC)

A written permit issued by the District to a specific applicant prior to the building, erection, alteration, or replacement of any article, machine, equipment or other contrivance which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants.

2.3 Continuous Emissions Monitoring System (CEMS)

The total equipment required for the continuous determination and record keeping of a gas concentration, emission rate or opacity measurement.

2.4 District

The Monterey Bay Unified Air Pollution Control District (MBUAPCD).

2.5 Emissions

The quantitative rate of releases to the atmosphere from an emission point as measured by the continuous emissions monitoring system (CEMS) and calculated by the methods specified in the Permit to Operate.

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2.6 Nitrogen Oxides (NO_x)

The sum of the molecular forms of nitrogen oxide and nitrogen dioxide. When measured or calculated, the total of the two molecular forms is collectively expressed as nitrogen dioxide.

2.7 Peaking Unit

Electric power generation equipment subject to Title IV of the federal Clean Air Act which has:

2.7.1 an average capacity factor of no more than ten (10) percent during the previous three (3) calendar years; and

2.7.2 a capacity factor of no more than 20 percent in each of those calendar years.

2.8 Permit to Operate

A written permit, with any specified conditions required, issued by the Monterey Bay Unified Air Pollution Control District to a specific applicant for the operation or use of any article, machine, equipment or other contrivance which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants.

2.9 Sulfur Oxides (SO_x)

The sum of the molecular forms of sulfur oxide and sulfur dioxide. When measured or calculated, the total of the two molecular forms is collectively expressed as sulfur dioxide (SO₂).

PART 3 REQUIREMENTS AND STANDARDS FOR SOURCES SUBJECT TO TITLE IV OF THE FEDERAL CLEAN AIR ACT

By January 1, 1995, the owner or operator of electric power generation equipment subject to Title IV (Acid Deposition Control) of the federal Clean Air Act, and with nameplate generation capacities of at least 25 MW, shall properly install, certify, operate and maintain in good working order continuous emissions monitoring systems which meet the standards of 40 CFR Parts 72 and 75.

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PART 4 REQUIREMENTS AND STANDARDS FOR OTHER SOURCES

4.1 Other Sources

The owner or operator of the sources listed herein shall properly install, certify, operate and maintain in good working order continuous emissions monitoring systems (CEMS) to measure and maintain records of the pollutants listed in Subsections 4.2.1, 4.2.2 and 4.2.3 herein, unless the source is subject to the provisions of Part 3 herein.

- 4.1.1 Fossil fuel-fired steam generators with a rated heat input of 250 MMBtu (63 million kilogram calories) or more per hour with a capacity factor of at least 30 percent per year.
- 4.1.2 Any source required to install CEMS pursuant to an Authority to Construct or Permit to Operate issued by the District.

4.2 Pollutants to be Determined for this Part

- 4.2.1 Nitrogen oxides (NO_x); and
- 4.2.2 carbon dioxide or oxygen; and
- 4.2.3 Sulfur dioxide (SO₂), if control equipment is used.

4.3 Standards of Performance of CEMS

CEMS required by this Part shall be installed, calibrated, maintained, and operated in accordance with the following:

- 4.3.1 40 CFR Part 51, Appendix P;
- 4.3.2 40 CFR Part 60, Subpart D, Section 60.45; and
- 4.3.3 A Quality Assurance/Preventative Maintenance (QA/PM) Procedures Manual developed by the source and approved by the District.
- 4.3.4 Equivalent standards may be used by mutual agreement of the District, Air Resources Board and Environmental Protection Agency.

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4.4 Calibration Standards

Calibration gas mixtures for CEMS required by this Part shall meet the specifications in 40 CFR Part 51, Appendix P, Section 3.3 and 40 CFR Part 60, Appendix B, Performance Specification 2; or shall meet equivalent specifications established by mutual agreement of the District, Air Resources Board and Environmental Protection Agency.

4.5 Cycling Times

At a minimum, the cycling times for CEMS required by this Part shall be those specified in 40 CFR, Part 51, Appendix P, Section 3.4, or shall meet equivalent specifications established by mutual agreement of the District, Air Resources Board and Environmental Protection Agency.

4.6 CEMS for SO₂ and NO_x

Any SO₂ and NO_x CEMS required for this Part shall meet the applicable performance specification requirements in 40 CFR Part 51, Appendix P and 40 CFR Part 60, Appendix B; or shall meet equivalent specifications established by mutual agreement of the District, Air Resources Board and Environmental Protection Agency.

4.7 CEMS for CO₂ and O₂

Any CO₂ and O₂ CEMS required for this Part shall meet the performance specification requirements in 40 CFR, Part 51, Appendix P and 40 CFR Part 60, Appendix B; or shall meet equivalent specifications established by mutual agreement of the District, Air Resources Board and Environmental Protection Agency.

PART 5 ADMINISTRATIVE REQUIREMENTS

5.1 Record Keeping Requirements

Owners or operators of sources subject to this Rule shall maintain written or electronic records in District-approved formats for a period of at least five (5) years after creation. Such records shall be made available to the District upon request. The records shall include, but are not limited to:

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- 5.1.1 occurrence and duration of any startup, shutdown, or malfunction in the operation of any affected facility;
- 5.1.2 performance testing, evaluations, calibration checks, adjustments, and maintenance of any continuous emissions monitors and systems that have been installed pursuant to this Rule;
- 5.1.3 emissions and other measurements, including records of all raw and processed data for parameters measured.

5.2 Quarterly Reports

Owners or operators subject to provisions of this Rule shall submit a written report for each calendar quarter, within 45 days of the end of the quarter, and shall include:

- 5.2.1 time intervals, date, and magnitude of excess emissions; nature and cause of the excess (if known), corrective actions and preventive measures adopted;
- 5.2.2 averaging period used for data reporting, corresponding to averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant and source category in question;
- 5.2.3 time and date of each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of system repairs and adjustments;
- 5.2.4 a negative declaration when no excess emissions occurred; and
- 5.2.5 a summary of actual monthly emissions from subject equipment which operated during the quarter.

5.3 Reports of Violations

Any violation of any emission standard to which the stationary source is required to conform, as indicated by the records of the continuous emissions monitoring system, shall be reported in writing by the operator of the source to the District within 96 hours after such occurrence. The District shall, in turn, report the violation to the Air Resources Board within five working days after receiving the report of the violation from the owner or operator.

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PART 6 DATA REDUCTION

6.1 Requirements for Part 3

Data collected under the provisions of Part 3 shall be reduced according to the procedures of 40 CFR Part 75, Appendix F, or by other methods deemed equivalent by joint decisions of the District, Air Resources Board and Environmental Protection Agency.

6.2 Requirements for Part 4

Data collected under the provisions of Part 4 shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, or by other methods deemed equivalent by joint decisions of the District, Air Resources Board and Environmental Protection Agency.

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