

RULE 1080 STACK MONITORING (Adopted June 18, 1992, Amended December 17, 1992)

1.0 Purpose

This rule grants the APCO the authority to request the installation, use maintenance, and inspection of continuous monitoring equipment. The general, source and pollutant specific requirements for continuous monitoring equipment are defined. This rule also specifies the performance standards for the equipment and administrative recordkeeping, reporting, and violation and equipment breakdown notification requirements.

2.0 Applicability

This rule shall apply to any owner or operator of a source operation which emits or may emit air contaminants.

3.0 Definitions

Definitions used shall be those given in 40 CFR, Part 51, or equivalent ones established by mutual agreement of the District, the ARB and the Environmental Protection Agency.

4.0 Requirements for Continuous Monitoring Equipment

Upon the request of the APCO and as directed by him, the owner shall provide, install, and operate continuous monitoring equipment on such operations as directed. The owner shall maintain, calibrate, and repair the equipment and shall keep the equipment operating at design capabilities.

5.0 Requirements for Continuous Monitoring Equipment: specific sources and pollutants

Upon request, the owner or operator shall provide, properly install, and maintain in good working order and in operation, continuous monitoring systems to measure the following pollutants or opacity from the following sources:

5.1 Fossil-fuel fired steam generators with a heat input of 250 million BTUs or more per hour with a use factor of at least 30% per year.

5.1.1 Oxides of nitrogen;

5.1.2 Carbon dioxide or oxygen;

5.1.3 Opacity except:

5.1.3.1 where gaseous fuel is the only fuel burned; or

- 5.1.3.2 where oil or a mixture of gas and oil is the only fuel burned and the source is able to comply with the applicable particulate matter and opacity regulations without collection equipment, and where the source has not been found since December 31, 1970, through administrative or judicial proceedings, to be in violation of applicable sections of Regulation IV (Prohibitions); and
    - 5.1.4 SO<sub>2</sub>, if control equipment is used.
  - 5.2 All sulfur recovery plants and sulfuric acid plants:
    - 5.2.1 SO<sub>2</sub>.
  - 5.3 All new nitric acid plants and all existing nitric acid plants of greater than 300 tons per day production capacity, the production capacity being expressed as 100% acid:
    - 5.3.1 Oxides of nitrogen.
  - 5.4 CO boilers or regenerators of fluid catalytic cracking units and CO boilers of fluid cokers if the feed rate is greater than 10,000 barrels per day.
    - 5.4.1 SO<sub>2</sub>; and
    - 5.4.2 Opacity.
- 6.0 Standards of Performance
  - 6.1 Systems shall be installed, calibrated, maintained and operated in accordance with the following sections of 40 CFR:
    - 6.1.1 Fossil-fuel fired steam generators: Section 60.45.
    - 6.1.2 Sulfuric acid plants: Section 60.84.
    - 6.1.3 Nitric acid plants: Section 60.73.
    - 6.1.4 Petroleum refineries: Section 60.105.
  - 6.2 Equivalent standards may be used by mutual agreement of the District, the ARB and the Environmental Protection Agency.
  - 6.3 Calibration gas mixtures shall meet the specifications in 40 CFR, Part 51, Appendix P, Section 3.3, and Part 60, Appendix B, Performance Specification 2, Section 2.1, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the Environmental Protection Agency.

- 6.4 Cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4, 3.4.1 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the Environmental Protection Agency.
- 6.5 The continuous SO<sub>2</sub> and NO<sub>x</sub> monitors shall meet the applicable performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.
- 6.6 The continuous CO<sub>2</sub> and O<sub>2</sub> monitoring system shall meet the performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.
- 6.7 The continuous opacity monitoring system shall meet the performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.

#### 7.0 Data Reduction and Recordkeeping Requirements

- 7.1 A person operating or using a stack-monitoring system shall upon written notice from the APCO, provide a summary of the data obtained from such systems. This summary of data shall be in the form and the manner prescribed by the APCO.
- 7.2 Data shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB and the Environmental Protection Agency.
- 7.3 Records from the monitoring equipment shall be kept by the owner for a period of two (2) years. The records shall be in permanent form, shall be suitable for inspection and shall be made available to the ARB and the District upon request. The records shall at a minimum include:
  - 7.3.1 The occurrence and duration of any start-up, shutdown or malfunction in the operation of any affected facility;
  - 7.3.2 Performance testing, evaluations, calibrations, checks, adjustments and maintenance of any continuous emission monitors that have been installed pursuant to this rule; and
  - 7.3.3 Emission measurements.

## 8.0 Quarterly Report

Owners or operators subject to Section 4.0 shall submit a written report for each calendar quarter to the APCO. The report is due by the 30th day following the end of the calendar quarter and shall include:

- 8.1 Time intervals, data and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions taken and preventive measures adopted.
- 8.2 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/source category in question.
- 8.3 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.
- 8.4 A negative declaration when no excess emissions occurred.
- 8.5 Reports on opacity monitors giving the number of three (3) minute periods during which the average opacity exceeded the standard for each hour of operation. The averages may be obtained by integration over the averaging period or by arithmetically averaging a minimum of four (4) equally spaced instantaneous opacity measurements per minute. Any time period exempted shall be considered before determining the excess averages of opacity.

## 9.0 Violations

A violation of emission standards of these rules, as shown by the stack-monitoring system, shall be reported by such person to the Air Pollution Control Officer within 96 hours.

## 10.0 Breakdown of Monitoring Equipment

In the event of a breakdown of monitoring equipment, the owner shall notify the APCO as soon as reasonably possible, but no later than eight (8) hours after its detection, unless the owner or operator demonstrates to the APCO's satisfaction that a longer reporting period was necessary, and shall initiate repairs. The owner shall inform the APCO of the intent to shut down any monitoring equipment at least 24 hours prior to the event.

## 11.0 Inspections

The APCO or an authorized representative shall inspect, as he determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly.

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