

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Air Division

Chapter 335-3-12
Continuous Monitoring Requirements for Existing Sources

335-3-12-.01 General

For the purposes of this Chapter, the following terms will have the meanings ascribed in this Rule:

- (a) **"Emission Standard"** shall mean a regulation (or portion thereof) setting forth an allowable rate of emissions, level of opacity, or prescribing equipment or fuel specifications that result in control of air pollution emissions.
- (b) **"Capacity Factor"** shall mean the ratio of the average load on a machine or equipment for the period of time considered to the capacity rating of the machine or equipment.
- (c) **"Excess Emissions"** shall mean emissions of an air pollutant in excess of an emission standard.
- (d) **"Sulfuric Acid Plant"** shall mean any facility producing sulfuric acid by the contact process by burning elemental sulfur, alkylation acid, hydrogen sulfide, or acid sludge, but does not include facilities where conversion to sulfuric acid is utilized primarily as a means of preventing emissions to the atmosphere of sulfur dioxide or other sulfur compounds.
- (e) **"Fossil-Fired Steam Generator"** shall mean a furnace or boiler used in the process of burning fossil fuel for the primary purpose of producing steam by heat transfer.

Author: Ronald W. Gore

Statutory Authority: Code of Alabama 1975, Secs. 22-28-14, 22-22A-5, 22-22A-5, 22-22A-6, and 22-22A-8.

History: Effective date: October 26, 1976.

Amended:

Date Submitted
to EPA

Date Approved
by EPA

Federal
Register

Original Reg
1st Revision

OCT 28, 1975
OCT 31, 1989

SEP 02, 1977
MAR 19, 1990

42 FR 44234
55 FR 10062

335-3-12-.02 Emission Monitoring and Reporting Requirements

- (1) Sources in the following categories which initiated construction prior to August 17, 1971, are subject to the requirements of this Chapter:
 - (a) Fossil-fuel fired steam generators
 - (b) Sulfuric acid plants
 - (c) Sources in these categories which are constructed Aug.17, 1971, are subject to the emission monitoring requirements of Chapter 35-3-10. This Chapter is intended to supplement existing regulations, and no Rule thereof shall be construed to interfere with the enforcement of other provisions of the Alabama Air Pollution Control Rules and Regulations.
- (2) The Director shall require the owner or operator of an emission source listed in Section 335-3-12-.02(1) to install, calibrate, operate, and maintain all monitoring equipment necessary for continuously monitoring the pollutants specified in paragraphs (3) and (4) of this Rule. The specific source categories listed in paragraph (1) of this Rule must complete the installation and performance testing of monitoring equipment and begin monitoring and recording within eighteen months from the date of the Environmental Protection Agency's approval of these regulations. Within six (6) months of such approval, all affected sources must present a detailed plan for complying with the requirements of this Chapter to the Director. The Director shall condition written approval of such plan upon the requirement that the plan will meet the minimum reporting requirements set forth in Divisions 4 and 5 of Appendix P of 40 CFR 51. More stringent reporting procedures may be required in the Director's discretion.
- (3) Fossil fuel-fired steam generators, as defined in this Chapter, with an annual average capacity factor of greater than thirty percent (30%), as reported to the Federal Power Commission for calendar year 1974, or was otherwise demonstrated to the Director by the owner or operator, shall conform with the following monitoring requirements when such facility is subject to an emission standard for the pollutant in question:
 - (a) A continuous monitoring system for the measurement of opacity shall be installed, calibrated, maintained, and operated by the owner or operator of any such steam generator of greater than 250 million BTU per hour heat input except were [sic?]:
 1. gaseous fuel is the only fuel burned, or
 2. oil or a mixture of gas and oil are the only fuels burned and the source is able to comply with the applicable particulate matter and opacity regulations without utilization of particulate matter collection equipment, and where the source has never been found, through any administrative or

judicial proceedings, to be in violation of any visible emission standard of the applicable plan.

- (b) A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated on any fossil fuel-fired steam generator of greater than 250 million BUT per hour heat input which has installed equipment designed for the desulfurization of flue gas.
- (c) A continuous monitoring system for the measurement of the percent oxygen or carbon dioxide in stack gases shall be installed, calibrated, operated, and maintained on fossil fuel-fired steam generators where measurement of oxygen or carbon dioxide in the flue gas are required to convert sulfur dioxide continuous emission monitoring data, to units of the emission standard in 335-3-5.
- (4) Sulfuric acid plants, as defined in the Chapter, with greater than 300 tons per day production capacity, the production being expressed as 100 percent (100%) acid, shall install, calibrate, maintain, and operate a continuous monitoring system for the measurement of sulfur dioxide for each sulfuric acid producing facility within such plant.
- (5) All monitoring equipment specified in this Chapter shall meet the performance specifications described in Appendix B of 40 CFR 60, except that the Director may from time to time specify different data averaging times and sampling intervals to permit accurate determinations of compliance with specific Air Pollution Control Rules and Regulations. The monitoring equipment shall also be installed, calibrated, operated, and maintained in accordance with the procedures in Appendix B of 40 CFR 60 and the minimum specifications of Division 3 in Appendix P of 40 CFR 51.

Author: Ronald W. Gore

Statutory Authority: Code of Alabama 1975, Secs. 22-28-14, 22-22A-5, 22-22A-5, 22-22A-6, and 22-22A-8.

History: Effective date: October 26, 1976.

Amended:

	Date Submitted to EPA	Date Approved by EPA	Federal Register
Original Reg	OCT 28, 1976	SEP 02, 1977	42 FR 44234
1 st Revision	OCT 31, 1989	MAR 19, 1990	55 FR 10062
2 nd Revision	OCT 30, 1996	JUN 06, 1997	62 FR 30991
3 rd Revision	MAR 05, 1998	SEP 14, 1998	63 FR 49005

335-3-12-.03 Monitoring System Malfunction

- (1) Malfunctions of a monitoring system required in this Chapter which last more than forty-eight (48) hours must be reported as expeditiously as possible to the Director in a written report. This report should include statements as to the time the monitor malfunctioned, the nature of the malfunction, the corrective action being taken, the estimated repair time, and any other information needed to demonstrate to the Director that the malfunction was unavoidable. The Director shall be informed of the time at which the monitor again becomes operational.
- (2) The Director may temporarily exempt an owner or operator from the monitoring and reporting requirements of this Chapter if it is demonstrated to the Director's satisfaction that the malfunction was unavoidable and is being repaired as expeditiously as possible.

Author: Ronald W. Gore

Statutory Authority: Code of Alabama 1975, Secs. 22-28-14, 22-22A-5, 22-22A-5, 22-22A-6, and 22-22A-8.

History: Effective date: October 26, 1976.

Amended:

	Date Submitted to EPA	Date Approved by EPA	Federal Register
Original Reg	OCT 28, 1976	SEP 02, 1977	42 FR 44234
1st Revision	OCT 31, 1989	MAR 19, 1990	55 FR 10062

335-3-12-.04 Alternate Monitoring and Reporting Requirements

- (1) Alternative monitoring and reporting requirements may be approved by the Director on a case-by-case basis, provided the following statements and explanations are contained in a written request to the Director:
 - (a) the basis or reason that alternative monitoring and reporting requirements are desirable and necessary;
 - (b) a proposal of alternative monitoring and reporting requirements;
 - (c) any other information needed by the Director to make a determination of the desirability of alternative requirements.
- (2) Request for alternative monitoring and reporting requirements may be made in certain situations, including, but not limited to, the following:
 - (a) when installation of a continuous monitoring system or device required by this Chapter would not provide accurate determinations of emissions;
 - (b) when the affected facility is operated less than thirty (30) days per year;
 - (c) when effluents from two (2) or more sources of significantly different design and operating characteristics are combined before release to the atmosphere or when the effluent from one source is released to the atmosphere through more than one (1) point;
 - (d) when the Director determines that the requirements prescribed by this Chapter would impose an extreme economic burden on the source owner or operator. The determination of an extreme economic burden shall be made on the basis of whether meeting the requirements prescribed by this Chapter would produce serious hardship without equal or greater benefit to the public;
 - (e) when the monitoring systems prescribed by this Chapter cannot be installed due to physical limitations at the facility. The determination of such limitations shall be made on the basis of whether meeting the requirements prescribed by this Chapter would necessitate significant reconstruction of the facility.
- (3) The Director may require the submission of additional information as he deems appropriate to evaluate the request for alternative requirements. Upon making a determination that the source should be subject to alternative monitoring and reporting requirements, the Director may approve either the proposed alternative monitoring and reporting requirements or any other monitoring and reporting requirements that deems appropriate and feasible.

Author: Ronald W. Gore

Statutory Authority: Code of Alabama 1975, Secs. 22-28-14, 22-22A-5, 22-22A-5, 22-22A-6, and 22-22A-8.

History: Effective date: October 26, 1976.

Amended:

	Date Submitted to EPA	Date Approved by EPA	Federal Register
Original Reg	OCT 28, 1976	SEP 02, 1977	42 FR 44234
1st Revision	OCT 31, 1989	MAR 19, 1990	55 FR 10062

335-3-12-.05 Exemptions and Extensions

- (1) The Director may exempt any source from the requirements of this Chapter if such source is scheduled for permanent shutdown by October 6, 1980 provided that adequate evidence and guarantees are provided to clearly show that the source will cease operations prior to such date.
- (2) The Director may grant reasonable extensions of the time provided for installation of monitors for facilities unable to meet the prescribed eighteen (18) month time frame, provided that the owner or operator of such facility demonstrates that good faith efforts have been made to obtain and install such devices within the prescribed time frame.
- (3) If, prior to September 11, 1974, an affected source purchased an emission monitor which does not conform to the requirements of Appendix B of 40 CFR 60, then the source may be granted a five (5) year period from the date of the Environmental Protection Agency's approval of this revision, during which time the monitor installed on that source is exempt from applicable performance specifications.

Author: Ronald W. Gore

Statutory Authority: Code of Alabama 1975, Secs. 22-28-14, 22-22A-5, 22-22A-5, 22-22A-6, and 22-22A-8.

History: Effective date: October 26, 1976.

Amended:

	Date Submitted to EPA	Date Approved by EPA	Federal Register
Original Reg	OCT 28, 1976	SEP 02, 1977	42 FR 44234
1st Revision	OCT 31, 1989	MAR 19, 1990	55 FR 10062