

**567—21.10(455B) Testing and sampling of new and existing equipment.**

**21.10(1)** *Continuous monitoring of opacity from coal-fired steam generating units.* The owner or operator of any coal-fired or coal-gas-fired steam generating unit with a rated capacity of greater than 250 million Btu per hour heat input shall install, calibrate, maintain, and operate continuous monitoring equipment to monitor opacity. If an exhaust services more than one steam generating unit as defined in the preceding sentence, the owner has the option of installing opacity monitoring equipment on each unit or on the common stack. Such monitoring equipment shall conform to performance specifications specified in 21.10(9). The director may require the owner or operator of any coal-fired or coal-gas-fired steam generating unit to install, calibrate, maintain, and operate continuous monitoring equipment to monitor opacity whenever the compliance status, history of operations, ambient air quality in the vicinity surrounding the generator, or the type of control equipment utilized would warrant such monitoring.

**21.10(2)** and **21.10(3)** Reserved.

**21.10(4)** *Continuous monitoring of sulfur dioxide from sulfuric acid plants.* The owner or operator of any sulfuric acid plant of greater than 300 tons per day production capacity, the production being expressed as 100 percent acid, shall install, calibrate, maintain, and operate continuous monitoring equipment to monitor sulfur dioxide emissions. The monitoring equipment shall conform to the minimum performance specifications specified in 21.10(9).

**21.10(5)** *Maintenance of records of continuous monitors.* The owner or operator of any facility that is required to install, calibrate, maintain, and operate continuous monitoring equipment shall maintain, for a minimum of two years, a file of all information pertinent to each monitoring system present at the facility. Such information must include but is not limited to all emissions data (raw data, adjusted data, and any or all adjusted factors used to convert emissions from units of measurement to units of the applicable standard), performance evaluations, calibrations and zero checks, and records of all malfunctions of monitoring equipment or source and repair procedures performed.

**21.10(6)** *Reporting of continuous monitoring information.* The owner or operator of any facility required to install a continuous monitoring system or systems shall provide quarterly reports to the director, no later than 30 calendar days following the end of the calendar quarter, on forms provided by the director. This provision shall not excuse compliance with more stringent applicable reporting requirements. All periods of recorded emissions in excess of the applicable standards, the results of all calibrations and zero checks and performance evaluations occurring during the reporting period, the number of hours that the source was operated while the monitoring equipment was not in operation, and any periods of monitoring equipment malfunctions or source upsets and any apparent reasons for these malfunctions and upsets shall be included in the report.

**21.10(7)** *Tests by owner.* The owner of new or existing equipment or the owner's authorized agent shall conduct emission tests to determine compliance with applicable rules in accordance with these requirements.

*a. General.* The owner of new or existing equipment or the owner's authorized agent shall notify the department in writing not less than 30 days before a required test or before a performance evaluation of a continuous emission monitor to determine compliance with applicable requirements of 567—Chapter 23 or a permit condition. Such notice shall include the time, the date, the place, the name of the person who will conduct the tests, and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department may not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days before the owner or operator conducts the compliance demonstration. A testing protocol shall be submitted to the department for review no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the director in the form of a comprehensive report within six weeks (42 days) of the completion of the testing.

*b. New equipment.* Unless otherwise specified by the department, all new equipment shall be tested by the owner or the owner's authorized agent to determine compliance with applicable emission limits.

Tests conducted to demonstrate compliance with the requirements of the rules or a permit shall be conducted within 60 days of achieving maximum production but no later than 180 days of startup, unless a shorter time frame is specified in the permit.

*c. Existing equipment.* The director may require the owner or the owner's authorized agent to conduct an emission test on any equipment if the director has reason to believe that the equipment does not comply with applicable requirements. Grounds for requiring such a demonstration of compliance include a modification of control or process equipment, age of equipment, or observation of opacities or other parameters outside the range of those indicative of properly maintained and operated equipment. Testing may be required as necessary to determine actual emissions from a source where that source is believed to have a significant impact on the public health or ambient air quality of an area. The director shall provide the owner or agent not less than 30 days to perform the compliance demonstration and shall provide written notice of the requirement.

**21.10(8) Tests by department.** Representatives of the department may conduct separate and additional air contaminant emission tests and continuous monitor performance tests of an installation on behalf of the state and at the expense of the state. Sampling holes, safe scaffolding, and pertinent allied facilities, but not instruments or sensing devices, as needed, shall be requested in writing by the director and shall be provided by and at the expense of the owner of the installation at such points as specified in the request. The owner shall provide a suitable power source to the point or points of testing so that sampling instruments can be operated as required. Analytical results shall be furnished to the owner.

**21.10(9) Methods and procedures.** Stack sampling and associated analytical methods used to evaluate compliance with emission limitations of 567—Chapter 23 or a permit condition are as follows:

*a. Performance test (stack test).* A stack test shall be conducted according to the U.S. Environmental Protection Agency (EPA) reference methods as specified in 40 CFR 51, Appendix M (as amended or corrected through March 29, 2023); 40 CFR 60, Appendix A (as amended or corrected through March 29, 2023); 40 CFR 61, Appendix B (as amended or corrected through October 7, 2020); and 40 CFR 63, Appendix A (as amended or corrected through March 29, 2023). Each test shall consist of at least three separate one-hour test runs. Unless otherwise specified by the department, EPA method, or regulation, compliance shall be assessed on the basis of the arithmetic mean of the emissions measured in the three test runs. The owner of the equipment or the owner's authorized agent may use an alternative methodology if the methodology is approved by the department in writing before testing.

*b. Continuous monitoring systems.* Minimum performance specifications and quality assurance procedures for performance evaluations of continuous monitoring systems are as specified in 40 CFR 60, Appendix B (as amended or corrected through June 28, 2023); 40 CFR 60, Appendix F (as amended or corrected through March 29, 2023); 40 CFR 75, Appendix A (as amended or corrected through August 30, 2016); 40 CFR 75, Appendix B (as amended or corrected through August 30, 2016); and 40 CFR 75, Appendix F (as amended or corrected through August 30, 2016). The owner of the equipment or the owner's authorized agent may use an alternative methodology for continuous monitoring systems if the methodology is approved by the department in writing before the minimum performance specifications and quality assurance procedures are conducted.

*c. Permit and compliance demonstration requirements.* After October 24, 2012, all stack sampling and associated analytical methods used to evaluate compliance with emission limitations of 567—Chapter 23 or required in a permit issued by the department pursuant to 567—Chapter 22 or 33 shall be conducted using the methodology referenced in this rule. If stack sampling was required for a compliance demonstration pursuant to 567—Chapter 23 or for a performance test required in a permit issued by the department pursuant to 567—Chapter 22 or 33 before October 24, 2012, and the demonstration or test was not required to be completed before October 24, 2012, then the methodology referenced in this subrule applies retroactively.

**21.10(10) Exemptions from continuous monitoring requirements.**

*a.* The owner or operator of any source is exempt if it can be demonstrated that any of the conditions set forth in this subrule are met with the provision that periodic recertification of the existence of these conditions can be requested.

(1) An affected source is subject to a new source performance standard.

(2) Reserved.

(3) An affected steam generator that is retired from service.

*b.* The director may provide a temporary exemption from the monitoring and reporting requirements during any period of monitoring system malfunction, provided that the source owner or operator shows, to the satisfaction of the director, that the malfunction was unavoidable and is being repaired as expeditiously as practical.

**21.10(11)** *Extensions.* The owner or operator of any source may request an extension of time provided for installation of the required monitor by demonstrating to the director that good faith efforts have been made to obtain and install the monitor in the prescribed time.

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