

CHAPTER 25
MEASUREMENT OF EMISSIONS

[Prior to 7/1/83, DEQ Ch 7]

[Prior to 12/3/86, Water, Air and Waste Management[900]]

567—25.1(455B) Testing and sampling of new and existing equipment.

25.1(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 Btus 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 25.1(9) and shall be operational within 18 months of the date these rules become effective. 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.

25.1(2) Reserved.

25.1(3) Reserved.

25.1(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. Said monitoring equipment shall conform to the minimum performance specifications specified in 25.1(9) and shall be operational within 18 months of the date these rules become effective.

25.1(5) *Maintenance of records of continuous monitors.* The owner or operator of any facility which 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.

25.1(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, 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.

25.1(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 director in writing, not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567—Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the tests and other information as required by the department. Unless specifically waived by the department, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of the pretest meeting. 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 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.

25.1(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.

25.1(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 those specified in the "Compliance Sampling Manual"¹ adopted by the commission on May 19, 1977, as revised through January 30, 2003. Sampling methods, analytical determinations, minimum performance specifications and quality assurance procedures for performance evaluations of continuous monitoring systems are those found in Appendices A (as amended through September 28, 2007), B (as amended through September 28, 2007) and F (as amended through January 12, 2004) of 40 CFR Part 60, and Appendices A (as amended through January 24, 2008), B (as amended through January 24, 2008), F (as amended through February 13, 2008) and K (as amended through January 24, 2008) of 40 CFR Part 75.

25.1(10) Exemptions from continuous monitoring requirements. 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.

a. An affected source is subject to a new source performance standard promulgated in 40 CFR Part 60 as amended through September 28, 2007.

b. An affected steam generator had an annual capacity factor for calendar year 1974, as reported to the Federal Power Commission, of less than 30 percent or the projected use of the unit indicates the annual capacity factor will not be increased above 30 percent in the future.

c. An affected steam generator is scheduled to be retired from service within five years of the date these rules become effective.

d. Rescinded IAB 1/20/93, effective 2/24/93.

e. 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.

25.1(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.

25.1(12) Continuous monitoring of sulfur dioxide from emission points involved in an alternative emission control program. The owner or operator of any facility applying for an alternative emission

control program under 567—subrule 22.7(1) that involves the trade-off of sulfur dioxide emissions shall install, calibrate, maintain and operate continuous sulfur dioxide monitoring equipment consistent with EPA reference methods (40 CFR Part 60, Appendix B, as amended through September 28, 2007). The equipment shall be operational within three months of EPA approval of an alternative emission control program.

¹ Available from the department.

567—25.2(455B) Continuous emission monitoring under the acid rain program. The continuous emission monitoring requirements for affected units under the acid rain program as provided in 40 CFR Part 75, including Appendices A, B, F and K as amended through January 24, 2008 (Appendix F also was corrected on February 13, 2008), are adopted by reference.

567—25.3(455B) Continuous emission monitoring under the Clean Air Mercury Rule (CAMR). The provisions in 40 CFR Part 75, including Appendices A, B, F and K as amended through May 18, 2005, are adopted by reference.

These rules are intended to implement Iowa Code section 455B.133.

[Filed 8/24/70; amended 12/11/73, 12/17/74]

[Filed 5/27/77, Notices 8/9/76, 12/29/76—published 6/15/77, effective 7/20/77]

[Filed 9/26/80, Notice 5/28/80—published 10/15/80, effective 11/19/80]

[Filed emergency 6/3/83—published 6/22/83, effective 7/1/83]

[Filed emergency 11/14/86—published 12/3/86, effective 12/3/86]

[Filed 12/30/92, Notice 9/16/92—published 1/20/93, effective 2/24/93]

[Filed 2/25/94, Notice 10/13/93—published 3/16/94, effective 4/20/94]

[Filed 5/19/95, Notice 3/15/95—published 6/7/95, effective 7/12/95]

[Filed 3/19/98, Notice 1/14/98—published 4/8/98, effective 5/13/98]

[Filed 10/30/98, Notice 8/26/98—published 11/18/98, effective 12/23/98]

[Filed 5/28/99, Notice 3/10/99—published 6/16/99, effective 7/21/99]

[Filed 1/19/01, Notice 6/14/00—published 2/7/01, effective 3/14/01]

[Filed 2/28/02, Notice 12/12/01—published 3/20/02, effective 4/24/02]

[Filed 8/29/03, Notice 6/11/03—published 9/17/03, effective 10/22/03]

[Filed 10/22/04, Notice 7/21/04—published 11/10/04, effective 12/15/04]

[Filed 5/18/05, Notice 3/16/05—published 6/8/05, effective 7/13/05]

[Filed 5/17/06, Notice 1/18/06—published 6/7/06, effective 7/12/06]

[Filed 2/8/07, Notice 12/6/06—published 2/28/07, effective 4/4/07]

[Filed 4/18/08, Notice 1/2/08—published 5/7/08, effective 6/11/08]

[Filed 8/20/08, Notice 6/4/08—published 9/10/08, effective 10/15/08]