

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 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 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 shall 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 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 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 as follows:

a. Performance test (stack test). A stack test shall be conducted according to EPA reference methods as specified in 40 CFR 51, Appendix M (as amended through December 21, 2010); 40 CFR 60, Appendix A (as amended through September 9, 2010); 40 CFR 61, Appendix B (as amended through October 17, 2000); and 40 CFR 63, Appendix A (as amended through August 20, 2010). The owner of the equipment or the owner's authorized agent may use an alternative methodology if approved by the department in writing before testing. Each test shall consist of at least three separate test runs. Unless otherwise specified by the department, compliance shall be assessed on the basis of the arithmetic mean of the emissions measured in the three test runs.

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 through September 9, 2010); 40 CFR 60, Appendix F (as amended through September 9, 2010); 40 CFR 75, Appendix A (as amended through March 28, 2011); 40 CFR 75, Appendix B (as amended through March 28, 2011); and 40 CFR 75, Appendix F (as amended through March 28, 2011). The owner of the equipment or the owner's authorized agent may use an alternative methodology for continuous monitoring systems if approved by the department in writing prior to conducting the minimum performance specification and quality assurance procedures.

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.

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.

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EPA Rulemakings

CFR:	40 C.F.R. 52.820(b)
FRM:	37 FR 10842 (5/31/72)
PRM:	None
State Submission:	1/27/72
State Proposal:	unknown
State Final:	Effective 4/1/72
APDB File:	IA-00
Description:	This rule was approved as part of the original SIP.

CFR:	40 C.F.R. 52.820(c)(26a)
FRM:	47 FR 22531 (5/25/82)
PRM:	None
State Submission:	6/20/77
State Proposal:	8/9/76
State Final:	5/19/77
APDB File:	IA-17
Description:	This revision deleted Chapter 7 and added a new chapter 7 (now chapter 25). This new rule requires continuous monitoring of opacity on certain existing coal fired boilers of greater than 250 million Btus per hour heat input, continuous monitoring of sulfur dioxide from existing sulfuric acid plants of greater than 300 tons per day production capacity, and maintenance of records of continuous monitors.

CFR:	40 C.F.R. 52.820(c)(43)
FRM:	50 FR 37176 (9/12/85); as corrected by 55 FR 26690 (6/29/90)
PRM:	49 FR 45761 (11/20/84)
State Submission:	7/18/84
State Proposal:	6/18/85
State Final:	IAB 6/22/83, (ARC 3826)
APDB File:	IA-19
Description:	Recodification of the regulations.

CFR:	40 C.F.R. 52.820(c)(57)(i)(A)
FRM:	58 FR 27939 (5/12/93)
PRM:	None
State Submission:	1/5/93
State Proposal:	IAB 9/16/92 (ARC 3350A)
State Final:	IAB 1/20/93 (ARC 3694A) (Effective 2/24/93)
APDB File:	IA-37
Description:	This revision requires the source to provide the state with 30 days' notice of a scheduled test, requires that new equipment be tested within a certain time period, requires the source to submit test results to the state within a specified time period, and gives the state authority to require testing of existing equipment. Also, this revision updated the reference to 40 C.F.R. Part 60, Appendix B and Appendix F.

CFR:	40 C.F.R. 52.820(c)(59)(i)(B)
FRM:	59 FR 65717 (12/21/94)
PRM:	59 FR 65744 (12/21/94)
State Submission:	5/5/94
State Proposal:	10/13/93
State Final:	Effective 4/20/94 (Published 3/16/94)
APDB File:	IA-46
Description:	This revision adopts the update of Appendix A of Part 60 through May 17, 1993.

CFR:	40 C.F.R. 52.820(c)(64)(i)(D)
FRM:	62 FR 55172 (10/23/97)
PRM:	61 FR 39375 (7/29/96)
State Submission:	2/27/96
State Proposal:	IAB 3/15/95 (ARC 5487A)
State Final:	IAB 6/7/95 (ARC 5660A) (Effective 7/12/95)
APDB File:	IA-47
Description:	This revision amended subrule 25.1(9) by adding the reference to 40 C.F.R. 75, Appendices A, B, and H, as amended through August 18, 1994.

CFR: 40 C.F.R. 52.820 (c)
 FRM: 64 FR 17548 (4/12/99) and 65 FR 32030 (5/22/00) (correction)
 PRM: 64 FR 17592 (4/12/99)
 State Submission: 8/12/98
 State Proposal: 1/14/98
 State Final: IAB 4/8/98
 APDB File: IA-71
 Description: This revision provides modifications to improve the clarity of the rule and updates references to the C.F.R.

CFR: 40 C.F.R. 62.3914
 FRM: 64 FR 32425 (6/17/99)
 PRM: 64 FR 32464 (6/17/99)
 State Submission: 2/11/99
 State Proposal: 3/16/98
 State Final: IAB 8/26/98
 APDB File: IA-70
 Description: This revision amends the date in 25.1(10) paragraph "a" from June 12, 1997, to September 15, 1997. This rule was approved as part of the 111(d) plan.

CFR: 40 C.F.R. 52.820 (c)
 FRM: 64 FR 67784 (12/3/99)
 64 FR 35941 (07/02/99) withdrawal notice
 PRM: 64 FR 25855 (05/13/99)
 State Submission: 12/11/98; 1/29/99
 State Proposal: IAB 6/17/98; IAB 8/29/98
 State Final: IAB 9/9/98; IAB 11/18/98
 APDB File: IA-74
 Description: This rule updates approval as part of the SIP.

CFR: 40 C.F.R. 52.820 (c)
 FRM: 67 FR 9591 (03/04/2002)
 PRM: 67 FR 9640 (03/04/2002)
 State Submission: 08/07/2000, 07/18/2001
 State Final: IAB 06/16/1999, IAB 02/07/2001
 APDB File: IA-79
 Description: This revision establishes a 30-day deadline for submitting quarterly reports; paragraph 25.1(10)"a" was amended to update the reference to 40 CFR part 60; and subrule 25.1(9) incorporates procedures approved by EPA to calculate calibration drift in continuous opacity monitors in accordance with 40 CFR part 60, appendix B.

CFR: 40 C.F.R. 52.820 (c)
 FRM: 68 FR 10969 (03/07/2003)
 PRM: 68 FR 11023 (03/07/2003)
 State Submission: 04/25/2002
 State Final: IAB 03/20/2002
 APDB File: IA-87
 Description: This revision updated dates in subrules 25.1(9) and 25.1(10)"a"

CFR: 40 C.F.R. 52.820 (c)
 FRM: 70 FR 22599 (05/02/2005)
 PRM: 70 FR 22623 (05/02/2005)
 State Submission: 12/15/2005
 State Final: IAB 11/10/2004; effective 12/15/2004
 APDB File: IA-104; E-docket No. R07-OAR-2005-IA-0002
 Description: This revision clarifies that the maintenance of records of continuous monitors, reporting of continuous monitoring information, exemptions from continuous monitoring requirements, and requests for extensions of time to install monitoring equipment are applicable to all owners and operators who are required to install continuous monitors.

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CFR: 40 C.F.R. 52.820(c)
FRM: 70 FR 75399 (12/20/2005)
PRM: 70 FR 75440 (12/20/2005)
State Submission: 04/26/2004 and 07/14/2005
State Final: IAB 09/17/2003; effective 10/22/2003; IAB 06/08/2005; effective 07/13/2005
APDB File: IA-106; EPA-R07-OAR-2005-IA-0006
Description: This revision updates the Compliance Sampling Manual and updates the CFR amendment dates (25.1(9)).

CFR: 40 C.F.R. 52.820(c)
FRM: 72 FR 58535 (10/16/2007)
PRM: 72 FR 58571 (10/16/2007)
State Submission: 04/26/2007
State Final: IAB 02/28/2007; effective 04/04/2007
APDB File: IA-122; EPA-R07-OAR-2007-0718
Description: The revision to 25.1(9) reflects the federal amendments to test methods and procedures for stack sampling and associated methods. The revision to 25.1(10)"a" reflects federal amendments to the new source performance standard.

CFR: 40 C.F.R. 52.820 (c)
FRM: 74 FR 68692 (12/29/2009)
PRM: 74 FR 68761 (12/29/2009)
State Submission: 11/18/2008
State Final: IAB 5/7/2008, effective 6/11/2008; IAB 9/10/2008, effective 10/15/2008
APDB File: IA-131 and IA 134; EPA-R07-OAR-2008-0895
Description: This revision amends subrule 25.1(9), paragraph 25.1 (10)"a", and subrule 25.1(12) to adopt by reference recent EPA technical amendments to performance test methods for NSPS/NESHAP.

CFR: 40 C.F.R. 52.820(c)
FRM: 78 FR 63887 (10/25/2013)
PRM: 78 FR 63937 (10/25/13)
State Submission: 3/7/2008, 1/11/2010, 3/1/2011
State Final: ARC 8215B, IAB 10/7/09, effective 11/11/09
APDB File: IA-141 and IA 143; EPA-R07-OAR-2012-0410 (effective 12/24/13)
Description: This revision clarifies notification procedures prior to a required test or before a performance evaluation of a continuous emission monitor.

CFR: 40 C.F.R. 52.820(c)
FRM: 79 FR 2787 (1/16/2014)
PRM: 79 FR 2808 (1/16/2014)
State Submission: 11/26/12
State Final: ARC 0330C; IAB 9/19/12, state effective 10/24/12
APDB File: IA-155; EPA-R07-OAR-2013-0483 (effective 3/17/14)
Description: This revision amends 25.1(9) "*Methods and procedures*" to evaluate compliance and rescinds "Compliance Sampling Manual". Only EPA approved test methods shall be allowed, reference methods for performance tests are made identical to revisions to the definition "EPA Reference Method", adds provision that all compliance demonstrations and performance tests specified in construction and operating permits shall be conducted only using the methods allowed in this rule.

Difference Between the State and EPA-Approved Regulation:

None.