

1.2 Performance and Compliance Testing

- (a) The Environmental Protection Division of the Georgia Department of Natural Resources requires compliance and performance testing to be performed as directed in permits to construct or operate within a designated time from start-up of operation or at other times or frequencies specified, or as otherwise specified by the Director¹. The owner or operator of such facility shall conduct or cause to be conducted performance or compliance test(s) and furnish the Director a written report of such performance or compliance test(s).
- (b) Performance or compliance tests shall be conducted and data shall be reduced in accordance with the test methods and procedures set forth in this section and in each relevant source category unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes of methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method, the results of which have been determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. The Director will not exercise the discretion on circumstances (2), (3), or (4) in the preceding sentence without first having obtained written concurrence or approval from the U.S. Environmental Protection Agency. Nothing in this paragraph shall be construed to abrogate either the Director's authority to require testing under the Rules and Regulations for Air Quality Control, Chapter 391-3-1 or the authority of the Administrator of the U.S. Environmental Protection Agency to require testing under the Federal Clean Air Act. For any specific source not referred to in the source categories of this text, applicable test methods in Appendix A shall apply provided (1) the Director specifies the use of that method as the reference equivalent, or alternate method upon the notification required in paragraph (f) of this section, (2) the Director has previously specified or approved the use of the method for that source and has not withdrawn or modified his approval by the specification of another method or amended method. In specific cases, where no applicable method is contained within this text, the Director will specify an appropriate test method and procedure to be used, or he may require the owner or operator to develop an appropriate test method for his (the Director's) approval.
- (c) Performance tests shall be conducted under such conditions as the Director specifies to the owner or operator based on representative performance (i.e., performance based on normal operating conditions) of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance test.
- (d) Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions of the performance tests unless otherwise specified in the applicable standard or otherwise specified by the Director.
- (e) Normal cyclical operations (e.g., soot blowing, grate dumping, or precipitator rapping) shall constitute representative process conditions.
- (f) The owner or operator of an affected facility shall provide prior notice of the performance tests to the Director to afford him the opportunity to have an observer present. This prior notice period shall be thirty (30) days for sources subject to U.S. EPA New Source Performance

¹Throughout this text, the word "Director" means the Director of the Environmental Protection Division of the Georgia Department of Natural Resources of the State of Georgia, or his designee.

Standards or National Emissions Standards for Hazardous Air Pollutants and shall be at least fourteen (14) days for other sources unless otherwise specified by the Director.

- (g) The owner or operator of an affected facility shall provide, or cause to be provided, performance or compliance testing facilities as follows:
 - (1) Sampling locations adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures, and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures;
 - (2) Safe sampling platform(s);
 - (3) Safe access to sampling platform(s);
 - (4) Utilities for sampling and testing equipment; and
 - (5) Any other facilities that the Director deems necessary for safe and adequate testing of a source.
- (h) Unless otherwise specified in the applicable source category, test method, or otherwise specified by the Director, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions as specified for the applicable source category. When any sampling conditions such as, but not limited to, length of each run, sample volume, or sampling rate are not specified in the applicable source category, they shall be requested of the Director prior to the required tests. For the purposes of determining compliance with an applicable standard or regulation, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances beyond the owner or operator's control, upon the Director's approval, results of a test run may be replaced with results of an additional test run, or compliance may, in limited cases, be determined using the arithmetic mean of the results of the two other runs. Provisions of this paragraph regarding the acceptance of only two test runs shall not apply when the Director has specifically requested the determination of compliance utilizing other means such as requiring more than three test runs. Unless otherwise specified or agreed upon by the Director, all testing shall be accomplished during a 72-hour period. During the entirety of the test period (including all test runs) and for such other time period prior to the conduct of any test that the Director may require, the owner or operator shall, to the extent practical, operate the source and associated air pollution control equipment, without non-routine maintenance, process optimization (tuning), or selective adjustment unless such activities have been previously approved by the Director.
- (i) For each test run, when the effluent from one affected facility is released to the atmosphere through more than one point, all such emission points shall be sampled simultaneously, unless otherwise approved by the Director.
- (j) Data analysis, recordkeeping, and reporting.
 - (1) Unless otherwise specified in a relevant standard or test method, or as otherwise approved by the Director in writing, results of a performance test shall include the analysis of samples, determination of emissions, and raw data. A performance test is "completed"

when field sample collection is terminated. The owner or operator of an affected source shall report the results of the performance test to the Director before the close of business on the 60th day following the completion of the performance test, unless specified otherwise in a relevant standard or as approved or specified otherwise in writing by the Director. For sources subject to 40 CFR Part 63 the results of the performance test shall be submitted as part of the notification of compliance status required under '63.9(h)' included therein.

- (2) [Reserved]
 - (3) For a minimum of 5 years after a performance test is conducted, the owner or operator shall retain and make available, upon request, for inspection by the Director the records or results of such performance test and other data needed to determine emissions from an affected source.
- (k) The performance testing shall include a test method performance audit (PA) during the performance test. The PAs consist of blind audit samples supplied by an accredited audit sample provider and analyzed during the performance test in order to provide a measure of test data bias. Gaseous audit samples are designed to audit the performance of the sampling system as well as the analytical system and must be collected by the sampling system during the compliance test just as the compliance samples are collected. If a liquid or solid audit sample is designed to audit the sampling system, it must also be collected by the sampling system during the compliance test. If multiple sampling systems or sampling trains are used during the compliance test for any of the test methods, the tester is only required to use one of the sampling systems per method to collect the audit sample. The audit sample must be analyzed by the same analyst using the same analytical reagents and analytical system and at the same time as the compliance samples. Retests are required when there is a failure to produce acceptable results for an audit sample. However, if the audit results do not affect the compliance or noncompliance status of the affected facility, the Director may waive the reanalysis requirement, further audits, or retests and accept the results of the compliance test. Acceptance of the test results shall constitute a waiver of the reanalysis requirement, further audits, or retests. The Director may also use the audit sample failure and the compliance test results as evidence to determine the compliance or noncompliance status of the affected facility. A blind audit sample is a sample whose value is known only to the sample provider and is not revealed to the tested facility until after they report the measured value of the audit sample. For pollutants that exist in the gas phase at ambient temperature, the audit sample shall consist of an appropriate concentration of the pollutant in air or nitrogen that can be introduced into the sampling system of the test method at or near the same entry point as a sample from the emission source. If no gas phase audit samples are available, an acceptable alternative is a sample of the pollutant in the same matrix that would be produced when the sample is recovered from the sampling system as required by the test method. For samples that exist only in a liquid or solid form at ambient temperature, the audit sample shall consist of an appropriate concentration of the pollutant in the same matrix that would be produced when the sample is recovered from the sampling system as required by the test method. An accredited audit sample provider (AASP) is an organization that has been accredited to prepare audit samples by an independent, third party accrediting body.
- (1) The source owner, operator, or representative of the tested facility shall obtain an audit sample, if commercially available, from an AASP for each test method used for regulatory compliance purposes. No audit samples are required for the following test methods: Methods 3C, Methods 6C, 7E, 9, and 10, Method 18, Methods 20, 22, and 25A, and Methods 303, 318, 320, and 321 of Appendix A of this text. If multiple sources at a single facility are tested during a compliance test event, only one audit sample is

required for each method used during a compliance test. The Director may waive the requirement to include an audit sample if it is believed that an audit sample is not necessary. "Commercially available" means that two or more independent AASPs have blind audit samples available for purchase. If the source owner, operator, or representative cannot find an audit sample for a specific method, the owner, operator, or representative shall consult the EPA Web site at the following URL, <http://www.epa.gov/ttn/emc>, to confirm whether there is a source that can supply an audit sample for that method. If the EPA Web site does not list an available audit sample at least 60 days prior to the beginning of the compliance test, the source owner, operator, or representative shall not be required to include an audit sample as part of the quality assurance program for the compliance test. When ordering an audit sample, the source, operator, or representative shall give the sample provider an estimate for the concentration of each pollutant that is emitted by the source or the estimated concentration of each pollutant based on the permitted level and the name, address, and phone number of the compliance authority. The source owner, operator, or representative shall report the results for the audit sample along with a summary of the emission test results for the audited pollutant to the Director and shall report the results of the audit sample to the AASP. The source owner, operator, or representative shall make both reports at the same time and in the same manner or shall report to the Director first and then report to the AASP. If the method being audited is a method that allows the samples to be analyzed in the field and the tester plans to analyze the samples in the field, the tester may analyze the audit samples prior to collecting the emission samples provided a representative of the compliance authority is present at the testing site. The tester may request and the Director may grant a waiver to the requirement that a representative of the Director must be present at the testing site during the field analysis of an audit sample. The source owner, operator, or representative may report the results of the audit sample to the Director and report the results of the audit sample to the AASP prior to collecting any emission samples. The test protocol and final test report shall document whether an audit sample was ordered and utilized and the pass/fail results as applicable.

- (2) An AASP shall have and shall prepare, analyze, and report the true value of audit samples in accordance with a written technical criteria document that describes how audit samples will be prepared and distributed in a manner that will ensure the integrity of the audit sample program. An acceptable technical criteria document shall contain standard operating procedures for all of the following operations:
 - (i) Preparing the sample;
 - (ii) Confirming the true concentration of the sample;
 - (iii) Defining the acceptance limits for the results from a well-qualified tester. This procedure must use well established statistical methods to analyze historical results from well qualified testers. The acceptance limits shall be set so that there is 95 percent confidence that 90 percent of well qualified labs will produce future results that are within the acceptance limit range.
 - (iv) Providing the opportunity for the Director to comment on the selected concentration level for an audit sample;
 - (v) Distributing the sample to the user in a manner that guarantees that the true value of the sample is unknown to the user;

- (vi) Recording the measured concentration reported by the user and determining if the measured value is within acceptable limits;
 - (vii) The AASP shall report the results from each audit sample in a timely manner to the Director and then to the source owner, operator, or representative. The AASP shall make both reports at the same time and in the same manner or shall report to the Director first and then report to the source owner, operator, or representative. The results shall include the name of the facility tested, the date on which the compliance test was conducted, the name of the company performing the sample collection, the name of the company that analyzed the compliance samples including the audit sample, the measured result for the audit sample, and whether the testing company passed or failed the audit. The AASP shall report the true value of the audit sample to the Director. The AASP may report the true value to the source owner, operator, or representative if the AASP's operating plan ensures that no laboratory will receive the same audit sample twice.
 - (viii) Evaluating the acceptance limits of samples at least once every two years to determine in cooperation with the voluntary consensus standard body if they should be changed;
 - (ix) Maintaining a database, accessible to the compliance authorities, of results from the audit that shall include the name of the facility tested, the date on which the compliance test was conducted, the name of the company performing the sample collection, the name of the company that analyzed the compliance samples including the audit sample, the measured result for the audit sample, the true value of the audit sample, the acceptance range for the measured value, and whether the testing company passed or failed the audit.
- (3) The accrediting body shall have a written technical criteria document that describes how it will ensure that the AASP is operating in accordance with the AASP technical criteria document that describes how audit samples are to be prepared and distributed. This document shall contain standard operating procedures for all of the following operations:
- (i) Checking audit samples to confirm their true value as reported by the AASP;
 - (ii) Performing technical systems audits of the AASP's facilities and operating procedures at least once every two years;
 - (iii) Providing standards for use by the voluntary consensus standard body to approve the accrediting body that will accredit the audit sample providers.
- (4) The technical criteria documents for the accredited sample providers and the accrediting body shall be developed through a public process guided by a voluntary consensus standards body (VCSB). The VCSB shall operate in accordance with the procedures and requirements in the U.S. EPA Office of Management and Budget Circular A-119. A copy of Circular A-119 is available upon request by writing the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW., Washington, DC 20503, by calling (202) 395-6880 or downloading online at http://standards.gov/standards_gov/a119.cfm. The VCSB shall approve all accrediting bodies. The Administrator of the U.S. EPA will review all technical criteria documents. If the technical criteria documents do not meet the minimum technical requirements in paragraphs (k)(2) through (4) of this section, the technical criteria

documents are not acceptable and the proposed audit sample program is not capable of producing audit samples of sufficient quality to be used in a compliance test. All acceptable technical criteria documents shall be posted on the EPA Web site at the following URL, <http://www.epa.gov/ttn/emc>.

*Code of Federal Regulations, Title 40, Part 63.