

Texas Commission on Environmental Quality

Chapter 117 - Control of Air Pollution from Nitrogen Compounds

Subchapter G : General Monitoring and Testing Requirements

DIVISION 1 : COMPLIANCE STACK TESTING AND REPORT REQUIREMENTS

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**SUBCHAPTER G: GENERAL MONITORING AND TESTING
REQUIREMENTS
DIVISION 1: COMPLIANCE STACK TESTING AND REPORT
REQUIREMENTS
§117.8000, §117.8010
Effective June 25, 2015**

§117.8000. Stack Testing Requirements.

(a) When required by this chapter, the owner or operator of a unit subject to this chapter shall conduct testing according to the requirements of this section.

(b) The unit must be operated at the maximum rated capacity, or as near as practicable. Compliance must be determined by the average of three one-hour emission test runs. Shorter test times may be used if approved by the executive director.

(c) Testing must be performed using the following test methods:

(1) Test Method 7E or 20 (40 Code of Federal Regulations (CFR), Part 60, Appendix A) for nitrogen oxides (NO_x);

(2) Test Method 10, 10A, or 10B (40 CFR Part 60, Appendix A) for carbon monoxide (CO);

(3) Test Method 3A or 20 (40 CFR Part 60, Appendix A) for oxygen (O₂);

(4) for units that inject ammonia or urea to control NO_x emissions, the Phenol-Nitroprusside Method, the Indophenol Method, or the United States Environmental Protection Agency Conditional Test Method 27 for ammonia;

(5) Test Method 2 (40 CFR Part 60, Appendix A) for exhaust gas flow and following the measurement site criteria of Test Method 1, §11.1 (40 CFR Part 60, Appendix A), or Test Method 19 (40 CFR Part 60, Appendix A) for exhaust gas flow in conjunction with the measurement site criteria of Performance Specification 2, §8.1.3 (40 CFR Part 60, Appendix B); or

(6) American Society for Testing and Materials (ASTM) Method D1945-91 or ASTM Method D3588-93 for fuel composition; ASTM Method D1826-88 or ASTM Method D3588-91 for calorific value; or alternate methods as approved by the executive director and the United States Environmental Protection Agency.

(d) United States Environmental Protection Agency-approved alternate test methods or minor modifications to the test methods specified in subsection (c) of this section may be used, as approved by the executive director, as long as the minor modifications meet the following conditions:

(1) the change does not affect the stringency of the applicable emission specification;

(2) the change affects only a single source or facility application.

(e) An owner or operator that chooses to install or relocate a boiler or process heater temporarily at an account for less than 60 consecutive calendar days may substitute the following in lieu of the requirements of subsections (b) - (d) of this section for stack testing required by this chapter. For the purposes of this subsection, the term "relocate" means to newly install at an account, as defined in §101.1 of this title (relating to Definitions), a boiler or process heater from anywhere outside of that account.

(1) The owner or operator may use the results of previous testing conducted on the same boiler or process heater conducted according to subsections (b) - (d) of this section or a manufacturer's guarantee of performance. If previous testing is used, the owner or operator of the site temporarily installing the boiler or process heater shall maintain a record of the previous test report as specified by the recordkeeping requirements under this chapter applicable to the site.

(2) The owner or operator shall physically remove the boiler or process heater from the account no later than 60 consecutive calendar days after the unit was installed at the account or comply with the testing requirements as specified in subsections (b) - (d) of this section.

(3) Extensions to the 60 consecutive calendar days limitation of this subsection will not be provided.

Adopted June 3, 2015

Effective June 25, 2015

§117.8010. Compliance Stack Test Reports.

Compliance stack test reports of testing performed in accordance with §117.8000 of this title (relating to Stack Testing Requirements), or if otherwise specified in this chapter, must include the following minimum contents.

(1) Introductory information. Background information pertinent to the test must include:

(A) company name, address, and name of company official responsible for submitting report;

(B) name and address of testing organization;

(C) names of persons present, dates, and location of test;

(D) schematic drawings of the unit being tested, showing emission points, sampling sites, and stack cross-section with the sampling points labeled and dimensions indicated;

(E) description of the process being sampled; and

(F) facility identification number used to identify the unit in the final control plan.

(2) Summary information. Summary information must include:

(A) a summary of emission rates found, reported in the units of the applicable emission limits and averaging periods, and compared with the applicable emission specification;

(B) the maximum rated capacity, normal maximum capacity, and actual operating level of the unit during the test (in million British thermal units, horsepower, or megawatts, as applicable), and description of the method used to determine such operating level;

(C) the operating parameters of any active nitrogen oxides (NO_x) control equipment during the test (for example, percent flue gas recirculation, ammonia flow rate, etc); and

(D) documentation that no changes to the unit have occurred since the compliance test was conducted that could result in a significant change in NO_x emissions.

(3) Procedure. The description of the procedures used and description of the operation of the sampling train and process during the test must include:

(A) a schematic drawing of the sampling devices used with each component designated and explained in a legend;

(B) a brief description of the method used to operate the sampling train and the procedure used to recover samples; and

(C) deviation from reference methods, if any.

(4) Analytical technique. A brief description of all analytical techniques used to determine the emissions from the source must be provided.

(5) Data and calculations. All data and calculations must be provided, including:

(A) field data collected on raw data sheets;

(B) log of process operating levels, including fuel data;

(C) laboratory data, including blanks, tare weights, and results of analysis; and

(D) emission calculations.

(6) Chain of custody. A listing of the chain of custody of the emission or fuel test samples, as applicable, must be provided.

(7) Appendix. The appendices must include:

(A) calibration work sheets for sampling equipment;

(B) collection of process logs of process parameters;

(C) brief resume/qualifications of test personnel; and

(D) description of applicable continuous monitoring system, as applicable.

(8) Monitor certification reports. Monitor certification reports must contain:

(A) information that demonstrates compliance with the certification requirements of §117.8100(a) or (b) of this title (relating to Emission Monitoring System Requirements for Industrial, Commercial, and Institutional Sources) for any continuous emissions monitoring system or predictive emissions monitoring system, as applicable; and

(B) the relative accuracy test audit information specified in 40 Code of Federal Regulations Part 60, Appendix B, Performance Specification 2, §8.5.