Texas 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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Outline:

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SUBCHAPTER G: GENERAL MONITORING AND TESTING REQUIREMENTS
DIVISION 1: COMPLIANCE STACK TESTING AND REPORT REQUIREMENTS
§117.8000, §117.8010

STATUTORY AUTHORITY

The new sections are adopted under Texas Water Code, §5.102, concerning General Powers, §5.103, concerning Rules, and §5.105, concerning General Policy, which authorize the commission to adopt rules necessary to carry out its powers and duties under the Texas Water Code. In addition, the sections are adopted under Texas Health and Safety Code, §382.002, concerning Policy and Purpose, which states the policy and purpose of the State of Texas and the Texas Clean Air Act; §382.011, concerning General Powers and Duties, which provides the commission with the authority to establish the level of quality to be maintained in the state's air and the authority to control the quality of the state's air; §382.012, concerning State Air Control Plan, which requires the commission to develop plans for protection of the state's air; §382.014, concerning Emission Inventory, which authorizes the commission to require submission information relating to emissions of air contaminants; §382.016, concerning Monitoring Requirements; Examination of Records, which authorizes the commission to prescribe requirements for owners or operators of sources to make and maintain records of emissions measurements; §382.017, concerning Rules, which provides the commission the authority to adopt rules consistent with the policy and purposes of the Texas Clean Air Act; §382.021, concerning Sampling Methods and Procedures, which authorizes the commission to prescribe the sampling methods and procedures; and §382.051(d), concerning Permitting Authority of Commission Rules, which authorizes the commission to adopt rules as necessary to comply with changes in federal law or regulations applicable to permits under Chapter 382. In addition, the new sections are adopted under federal mandates contained in 42 United States Code, §§7401 *et seq.*, which require states to adopt pollution control measures in order to reach specific air quality standards in particular areas of the state.

The adopted sections implement Texas Health and Safety Code, §§382.002, 382.011, 382.012, 382.014, 382.016, 382.017, 382.021, and 382.051(d).

§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 60, Appendix A) for carbon monoxide (CO);

(3) Test Method 3A or 20 (40 CFR 60, Appendix A) for oxygen (O_2);

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

§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.