

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 Reports Requirements

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CHAPTER 117: CONTROL OF AIR POLLUTION FROM NITROGEN COMPOUNDS

SUBCHAPTER G: GENERAL MONITORING AND TESTING REQUIREMENTS

DIVISION 1: COMPLIANCE STACK TESTING AND REPORT REQUIREMENTS

§117.8000

Statutory Authority

The amended section is adopted under Texas Water Code (TWC), §5.102, concerning General Powers, that provides the commission with the general powers to carry out its duties under the TWC; TWC, §5.103, concerning Rules, that authorizes the commission to adopt rules necessary to carry out its powers and duties under the TWC; TWC, §5.105, concerning General Policy, that authorizes the commission by rule to establish and approve all general policy of the commission; and under Texas Health and Safety Code (THSC), §382.017, concerning Rules, that authorizes the commission to adopt rules consistent with the policy and purposes of the Texas Clean Air Act. The amended section is also adopted under THSC, §382.002, concerning Policy and Purpose, that establishes the commission's purpose to safeguard the state's air resources, consistent with the protection of public health, general welfare, and physical property; THSC, §382.011, concerning General Powers and Duties, that authorizes the commission to control the quality of the state's air; THSC, §382.012, concerning State Air Control Plan, that authorizes the commission to prepare and develop a general, comprehensive plan for the proper control of the state's air; THSC, §382.016, concerning Monitoring Requirements; Examination of Records, that authorizes the commission to prescribe reasonable requirements for the measuring and monitoring of air contaminant emissions; and THSC, §382.021, concerning Sampling Methods and Procedures, that authorizes the commission to prescribe the sampling methods and procedures to

determine compliance with its rules. The amended section is also adopted under Federal Clean Air Act (FCAA), 42 United States Code (USC), §§7401, *et seq.*, which requires states to submit State Implementation Plan revisions that specify the manner in which the National Ambient Air Quality Standards will be achieved and maintained within each air quality control region of the state.

The amended section implements THSC, §§382.002, 382.011, 382.012, 382.016, 382.017, and 382.021; and FCAA, 42 USC, §§7401, *et seq.*

§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 (EPA) 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 EPA.

(d) EPA-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.

(f) ASTM Method D6348-03 may be used to determine NO_x or CO emissions from stationary internal combustion engines in lieu of the test methods for NO_x or CO specified in subsection (c) of this section if the owner or operator of the stationary engine subject to the testing requirements of this section meets the conditions of this subsection. All other applicable requirements in subsection (c) of this section continue to apply.

(1) Written notification of the use of ASTM Method D6348-03 must be submitted to the appropriate regional office and any local air pollution control agency having jurisdiction at least 15 days in advance of the date of testing.

(2) The analyte spiking procedure in Annex A5 to ASTM Method D6348-03 must be performed using NO_x calibration gas standards certified for total NO_x.

(3) All requirements outlined in Annexes A1 through A8 to ASTM Method D6348-03 must be followed. The test report must contain the information specified in §117.8010 of this title (relating to Compliance Stack Test Reports) in addition to information demonstrating compliance with all requirements of ASTM Method D6348-03, including Annexes A1 through A8.

(4) Minor modifications to ASTM Method D6348-03 may be used, as approved by the executive director, as long as the minor modifications meet the conditions of subsection (d)(1) and (2) of this section.