

Example Rule to Meet NO_x SIP Call Requirements Using Compliance Plans for Nitrogen Oxides(NO_x) Emissions from Stationary Internal Combustion (IC) Engines

Section 1. Definitions.

For the purposes of this rule, the following definitions shall apply:

(a) Affected Engine means any stationary IC engine that is a Large NO_x SIP Call Engine, or other stationary IC engine that is subject to NO_x control under a compliance plan established pursuant to section 3 of this rule.

(b) Engine Seasonal NO_x 2007 Tonnage Reduction means the year 2007 seasonal NO_x emissions reductions value (tons) for a Large NO_x SIP Call Engine which is calculated as the difference between the 2007 Ozone Season Base NO_x Emissions and the 2007 Ozone Season Budget NO_x Emissions contained in the NO_x SIP Call Engine Inventory.

(c) Facility Seasonal NO_x 2007 Tonnage Reduction means the total of the Engine Seasonal NO_x 2007 Tonnage Reductions attributable to all of an owner/operator's Large NO_x SIP Call Engines.

(d) Large NO_x SIP Call Engine means a stationary IC engine identified and designated as "large" in the NO_x SIP Call Engine Inventory as emitting more than one ton of NO_x per average ozone season day in 1995.

(e) NO_x SIP Call Engine Inventory means the inventory of IC engines compiled by EPA as part of the NO_x SIP Call Rule, including the Technical Amendments, announced in the March 2, 2000 Federal Register notice, and the adjustment of the 2007 Budget NO_x Control Efficiency to 82 percent for large gas-fired engines, announced in the April 21, 2004 Federal Register notice for the Phase II NO_x SIP Call Rule.

(f) Past NO_x Emission Rate means the emission rate of an Affected Engine in grams per brake horsepower-hour (g/bhp-hr) as determined by performance testing consistent with the requirements of 40 CFR part 60, Appendix A. Where such performance test data are not available, the Past NO_x Emission Rate may be determined by the State on a case-by-case basis using, for example, appropriate emission factors or data from the NO_x SIP Call Engine Inventory. For Large NO_x SIP Call Engines, the Past NO_x Emission Rate is the uncontrolled emission rate.

(g) Projected Operating Hours means the projected actual

number of hours of operation per ozone season for an Affected Engine.

(h) Projected NOx Emission Rate means the projected emission rate in g/bhp-hr after installation of controls on an Affected Engine.

(i) Stationary internal combustion engine means any internal combustion engine of the reciprocating type that is either attached to a foundation at a facility or is designed to be capable of being carried or moved from one location to another and remains at a single site at a building, structure, facility, or installation for more than 12 consecutive months. Any engine (or engines) that replaces an engine at a site that is intended to perform the same or similar function as the engine replaced is included in calculating the consecutive time period.

Section 2. Applicability. The requirements of this rule apply to the owner or operator of any Large NOx SIP Call Engine.

Section 3. Compliance Plan.

(a) After May 1, 2007, an owner or operator of a Large NOx SIP Call Engine shall not operate the engine in the period May 1 through September 30 of 2007 and any subsequent year unless the owner or operator complies with the requirements of a compliance plan which meets the provisions listed below.

(1) The compliance plan must be approved by the State.

(2) The compliance plan must demonstrate enforceable emission reductions from one or more stationary internal combustion engines equal to or higher than the Facility Seasonal NOx 2007 Tonnage Reduction.

(3) The compliance plan may cover some or all engines at an individual facility or at several facilities or at all facilities in a State that are in control of the same owner/operator.

(4) The compliance plan must be submitted to the State by May 1, 2006.

(5) The compliance plan may include credit for decreases in NOx emissions from Large NOx SIP Call Engines in the State due to NOx control equipment. Credit may also be included for decreases in NOx emissions from other engines in the State due to NOx control equipment not reflected in the 2007 Ozone Season Base NOx Emissions in the NOx SIP Call Engine Inventory.

(6) The compliance plan must include the following items:

(i) List of engines subject to the plan, including the engine's manufacturer, model, facility location address, and facility identification number.

(ii) The projected ozone season hours of operation for each engine and supporting documentation.

(iii) A description of the NOx emissions control installed, or to be installed, on each engine and documentation to support the Projected NOx Emission Rates.

(iv) The Past and Projected NOx Emission Rates for each Affected Engine in g/bhp-hr.

(v) A numerical demonstration that the emission reductions obtained from all engines included under the plan will be equivalent to or greater than the owner/operator's Facility Seasonal NOx 2007 Tonnage Reduction, based on the difference between the Past NOx Emission Rate and the Projected NOx Emission Rate multiplied by the Projected Operating Hours for each Affected Engine, and taking into account any credit under subparagraph 3(a)(5) of this section.

(vi) Provisions for monitoring, reporting and recordkeeping for each Affected Engine.

(b) The Projected NOx Emission Rate in g/bhp-hr for each Affected Engine must be included in a federally enforceable permit.

Section 4. Reporting, monitoring, and recordkeeping. Any owner or operator subject to the requirements of section 3 shall comply with the following requirements:

(a) Monitoring requirements. Each Affected Engine subject to this rule shall comply with the following requirements.

(1) Complete an initial performance test consistent with the requirements of 40 CFR part 60, Appendix A, following installation of emission controls required to achieve the emission rate limit specified in section 3(b) of this rule.

(2) Perform periodic monitoring sufficient to yield reliable data from the relevant time period that is representative of a source's compliance with the emission rate limit specified in section 3(b) of this rule. Such periodic monitoring may

include either:

(i) Performance tests consistent with the requirements of 40 CFR part 60, Appendix A, or portable monitors using ASTM D6522-00;

(ii) A parametric monitoring program that specifies operating parameters, and their ranges, that will provide reasonable assurance that each engine's emissions are consistent with the requirements of section 3 of this rule;

(iii) A predictive emissions measurement system that relies on automated data collection from instruments;
or

(iv) A continuous emission monitoring system that complies with 40 CFR parts 60 or 75.

(b) Recordkeeping Requirements.

(1) Maintain all records necessary to demonstrate compliance with the requirements of this rule for a period of 2 calendar years at the plant at which the subject engine is located. The records shall be made available to the State and EPA upon request.

(2) For each engine subject to the requirements of this rule, the owner or operator shall maintain records of:

(i) Identification and location of each engine subject to the requirements of this section.

(ii) Calendar date of record.

(iii) The number of hours the unit is operated during each ozone season compared to the Projected Operating Hours.

(iv) Type and quantity of fuel used.

(v) The results of all compliance tests.

(c) Reporting requirements. Any owner or operator subject to the requirements of this rule shall submit results of all compliance tests to the State.