



**WEST VIRGINIA  
SECRETARY OF STATE**

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**ADMINISTRATIVE LAW DIVISION**

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OFFICE OF  
WEST VIRGINIA SECRETARY OF STATE

**FORM 6 -- NOTICE OF FINAL FILING AND ADOPTION OF A LEGISLATIVE RULE AUTHORIZED  
BY THE WEST VIRGINIA LEGISLATURE**

AGENCY **Air Quality**  
RULE TYPE **Legislative** AMENDMENT TO EXISTING RULE **Yes** TITLE-SERIES **45-40**  
RULE NAME **Control of Ozone Season Nitrogen Oxides Emissions**

CITE AUTHORITY **W. Va. Code §22-5-4**

HOUSE OR SENATE BILL NUMBER SECTION PASSED ON  
**H.B. 117** **64-3-1(x)** **06/08/2016**

THIS RULE IS FILED WITH THE SECRETARY OF STATE. THIS RULE BECOMES EFFECTIVE ON THE  
FOLLOWING DATE

**Friday, July 01, 2016**

BY CHOOSING 'YES', I ATTEST THAT THE PREVIOUS STATEMENTS ARE TRUE AND CORRECT.

**Yes**  
**Kristin A Boggs -- By my signature, I certify that I am the person authorized to file legislative rules, in  
accordance with West Virginia Code §29A-3-11 and §39A-3-2.**



Title-Series: 45-40



Rule Id: 9818



Document: 27605

45CSR40

TITLE 45  
LEGISLATIVE RULE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY

SERIES 40  
CONTROL OF OZONE SEASON NITROGEN OXIDES EMISSIONS

**§45-40-1. General.**

1.1. Scope. -- This rule establishes:

1.1.a. Ozone season NO<sub>x</sub> emission limitation, monitoring, recordkeeping, reporting, excess emissions, and NO<sub>x</sub> budget demonstration requirements for large industrial boilers and combustion turbines that have a maximum design heat input greater than 250 mmBTU/hr, in accordance with 40 CFR §51.121;

1.1.b Ozone season NO<sub>x</sub> reduction, compliance plan, monitoring, recordkeeping and reporting requirements affected stationary internal combustion engines; and

1.1.c. Ozone season NO<sub>x</sub> control standards, NO<sub>x</sub> compliance plan, reporting, monitoring and recordkeeping requirements for applicable cement manufacturing kilns.

1.2. Authority. -- W.Va. Code §22-5-4.

1.3. Filing Date. -- June 16, 2016.

1.4. Effective Date. -- July 1, 2016.

1.5. Former Rules. -- This legislative rule amends 45CSR40 - "Control of Ozone Season Nitrogen Oxide Emissions" which was filed April 14, 2008, and which became effective May 1, 2008.

**§45-40-2. Definitions.**

2.1. "Administrator" means the Administrator of the United States Environmental Protection Agency (U.S. EPA) or the Administrator's duly authorized representative.

2.2. "Boiler" means an enclosed fossil or other fuel-fired combustion device used to produce heat and to transfer heat to recirculating water, steam, or other medium.

2.3. "Clean Air Act" or "CAA" means the Clean Air Act, 42 U.S.C. 7401, et seq.

2.4. "Clinker" means the product of a Portland cement kiln from which finished cement is manufactured by milling and grinding.

2.5. "Combustion turbine" means:

2.5.a. An enclosed device comprising a compressor, a combustor, and a turbine and in which the flue gas resulting from the combustion of fuel in the combustor passes through the turbine, rotating the turbine; and

2.5.b. If the enclosed device under subdivision 2.6.a is combined cycle, any associated duct burner, heat recovery steam generator, and steam turbine.

2.6. “Continuous emission monitoring system” or “CEMS” means the equipment required under 40 CFR Part 75, Subpart H to sample, analyze, measure, and provide, by means of readings recorded at least once every 15 minutes (using an automated data acquisition and handling system (DAHS)), a permanent record of nitrogen oxides emissions, expressed in tons per hour for nitrogen oxides, stack gas volumetric flow rate, stack gas moisture content, and oxygen or carbon dioxide concentration (as applicable), in a manner consistent with 40 CFR Part 75. The following systems are the principal types of continuous emission monitoring systems:

2.6.a. A flow monitoring system, consisting of a stack flow rate monitor and an automated data acquisition and handling system and providing a permanent, continuous record of stack gas volumetric flow rate, in standard cubic feet per hour (scfh);

2.6.b. A nitrogen oxides concentration monitoring system, consisting of a NO<sub>x</sub> pollutant concentration monitor and an automated data acquisition and handling system and providing a permanent, continuous record of NO<sub>x</sub> emissions, in parts per million (ppm);

2.6.c. A nitrogen oxides emission rate (or NO<sub>x</sub>-diluent) monitoring system, consisting of a NO<sub>x</sub> pollutant concentration monitor, a diluent gas (CO<sub>2</sub> or O<sub>2</sub>) monitor, and an automated data acquisition and handling system and providing a permanent, continuous record of NO<sub>x</sub> concentration, in parts per million (ppm), diluent gas concentration, in percent CO<sub>2</sub> or O<sub>2</sub>; and NO<sub>x</sub> emission rate, in pounds per million British thermal units (lb/mmBtu);

2.6.d. A moisture monitoring system, as defined in 40 CFR §75.11(b)(2) and providing a permanent, continuous record of the stack gas moisture content, in percent H<sub>2</sub>O;

2.6.e. A carbon dioxide monitoring system, consisting of a CO<sub>2</sub> pollutant concentration monitor (or an oxygen monitor plus suitable mathematical equations from which the CO<sub>2</sub> concentration is derived) and an automated data acquisition and handling system and providing a permanent, continuous record of CO<sub>2</sub> emissions, in percent CO<sub>2</sub>; and

2.6.f. An oxygen monitoring system, consisting of an O<sub>2</sub> concentration monitor and an automated data acquisition and handling system and providing a permanent, continuous record of O<sub>2</sub>, in percent O<sub>2</sub>.

2.7. “Excess emissions” means nitrogen oxides emitted by an applicable unit under subsection 4.1 during an ozone season that exceeds the ozone season NO<sub>x</sub> emissions limitation for the unit set forth in section 5.

2.8. “Fossil fuel” means natural gas, petroleum, coal, or any form of solid, liquid, or gaseous fuel derived from such material.

2.9. “Fossil fuel-fired” means, with regard to a unit, and solely for purposes of applying the applicability provisions in subsection 4.1:

2.9.a. The combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel actually combusted comprises more than 50 percent of the annual heat input on a Btu basis during any year; or

2.9.b. The combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel is projected to comprise more than 50 percent of the annual heat input on a Btu basis during any year; provided that the unit shall be "fossil fuel-fired" as of the date, during such year, on which the unit begins combusting fossil fuel.

2.10. "Large NO<sub>x</sub> SIP call engine" means a stationary internal combustion engine identified and designated as "large" in the NO<sub>x</sub> SIP Call Engine Inventory as emitting more than one ton of NO<sub>x</sub> per average ozone season day in 1995.

2.11. "Long dry kiln" means a kiln 14 feet or larger in diameter, 400 feet or greater in length, which employs no preheating of the feed. The inlet feed to the kiln is dry.

2.12. "Long wet kiln" means a kiln 14 feet or larger in diameter, 400 feet or greater in length, which employs no preheating of the feed. The inlet feed to the kiln is a slurry.

2.13. "Low-NO<sub>x</sub> burners" means combustion equipment designed to reduce flame turbulence, delay fuel/air mixing and establish fuel-rich zones for initial combustion.

2.14. "Mid-kiln firing" means the secondary firing in kilns by injecting solid fuel at an intermediate point in the kiln using a specially designed feed injection mechanism for the purpose of decreasing NO<sub>x</sub> emissions through:

2.14.a. Burning part of the fuel at a lower temperature; and

2.14.b. Reducing conditions at the solid waste injection point that may destroy some of the NO<sub>x</sub> formed upstream in the kiln burning zone.

2.15. "Monitoring system" means a continuous emissions monitoring system, an alternative monitoring system, or an excepted monitoring system under 40 CFR Part 75.

2.16. "NO<sub>x</sub> SIP Call Engine Inventory" means the inventory of internal combustion engines compiled by U.S. EPA as part of the NO<sub>x</sub> SIP Call Rule, including the Technical Amendments, announced in the March 2, 2000 FR 11222, and the adjustment of the 2007 Budget NO<sub>x</sub> Control Efficiency to 82 percent for large gas-fired engines, announced in the April 21, 2004 Federal Register notice for the Phase II NO<sub>x</sub> SIP Call Rule.

2.17. "Ozone season" means the period beginning May 1 of a calendar year, and ending on September 30 of the same year, inclusive.

2.18. "Portland cement" means a hydraulic cement produced by pulverizing clinker consisting essentially of hydraulic calcium silicates, usually containing one or more of the forms of calcium sulfate as an interground addition.

2.19. "Portland cement kiln" means a system, including any solid, gaseous or liquid fuel combustion equipment, used to calcine and fuse raw materials, including limestone and clay, to produce Portland cement clinker

2.20. "Preheater kiln" means a kiln where the feed to the kiln system is preheated in cyclone chambers and utilizes a second burner to calcine material in a separate vessel attached to the preheater prior to the final fusion in a kiln which forms clinker.

2.21. "Preheater kiln" means a kiln where the feed to the kiln system is preheated in cyclone chambers prior to the final fusion in a kiln which forms clinker.

2.22. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§22-1-6 or 22-1-8.

2.23. "Source" means all buildings, structures, or installations located in one or more contiguous or adjacent properties under common control of the same person or persons.

2.24. "Stationary internal combustion engine" or "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.

2.25. "Ton" means 2,000 pounds.

2.26. "Unit" means a stationary, fossil fuel-fired boiler, combustion turbine, or combined cycle system.

2.27. Other words and phrases used in this rule, unless otherwise indicated, will have the meaning ascribed to them in W.Va. Code §22-5-1 et seq. and 40 CFR §72.2.

#### **§45-40-3. Measurements, Abbreviations and Acronyms.**

Measurements, abbreviations and acronyms used in this rule are defined as follows:

Btu -- British thermal unit.

CO<sub>2</sub> -- carbon dioxide.

NO<sub>x</sub> -- nitrogen oxides.

hr -- hour.

mmBtu -- million Btu.

TPH -- tons per hour.

yr -- year.

#### **§45-40-4. Applicability.**

4.1. The owner or operator of a unit that has a maximum design heat input greater than 250 mmBtu/hr, except for any unit subject to the federal Cross-State Air Pollution Rule NO<sub>x</sub> Ozone Season Trading Program established under 40 CFR Part 97, Subpart BBBBB, or an equivalent trading program established under regulations approved as a state implementation plan revision pursuant to 40 CFR §52.38(b)(5), shall comply with the ozone season NO<sub>x</sub> emission limitation, and monitoring, recordkeeping and reporting requirements for ozone season emissions of NO<sub>x</sub> set forth in sections 5 and 6.

4.2. Effective May 1, 2009, the owner or operator of a large NO<sub>x</sub> SIP Call engine shall comply with

the ozone season NO<sub>x</sub> reduction, compliance plan, monitoring, recordkeeping and reporting requirements set forth in section 9.

4.3. Effective May 1, 2009, the owner or operator of a kiln that meets the following applicability requirements shall comply with the ozone season NO<sub>x</sub> control standards, NO<sub>x</sub> compliance plan, reporting, monitoring and recordkeeping requirements set forth in section 10:

- 4.3.a. Long dry kilns  $\geq$  12 TPH process rate;
- 4.3.b. Long wet kilns  $\geq$  10 TPH process rate;
- 4.3.c. Preheater kilns  $\geq$  16 TPH process rate; and
- 4.3.d. Precalciner and preheater/precalciner kilns  $\geq$  22 TPH process rate.

**§45-40-5. Ozone Season NO<sub>x</sub> Emission Limitation.**

5.1. Ozone season NO<sub>x</sub> limitation. -- Beginning May 1, 2016, the owner or operator of a unit that meets the applicability requirements set forth in subsection 4.1 shall limit emissions of NO<sub>x</sub> during an ozone season pursuant to a NO<sub>x</sub> emission rate for each unit contained in a permit issued under 45CSR13, 45CSR14, 45CSR19 or via consent order issued by the Secretary in accordance with W.Va. Code §22-5-4(a)(5). Such ozone season NO<sub>x</sub> limitation may also include a limitation on operating time for a unit during the ozone season.

**§45-40-6. Monitoring, Recordkeeping and Reporting Requirements.**

6.1. The owner or operator of an applicable unit under subsection 4.1 shall operate certified continuous emission monitor systems necessary to attribute ozone season NO<sub>x</sub> mass emissions to each unit, in accordance with 40 CFR Part 75, Subpart H. NO<sub>x</sub> mass emissions measurements recorded and reported in accordance with 40 CFR Part 75, Subpart H shall be used to determine a unit's compliance with the ozone season NO<sub>x</sub> emission limitation set forth in section 5.

**§45-40-7. Violation.**

7.1. The owner or operator of an applicable unit under subsection 4.1 shall be subject to enforcement pursuant to W.Va. Code §22-5-1 et seq. or the CAA for excess emissions of NO<sub>x</sub> during an ozone season if the unit emitted nitrogen oxides in excess of its ozone season NO<sub>x</sub> emission limitation set forth in section 5.

**§45-40-8. Ozone Season NO<sub>x</sub> Budget Demonstration.**

8.1. Ozone season NO<sub>x</sub> budget. -- The ozone season NO<sub>x</sub> budget for all units that meet the applicability requirements set forth in subsection 4.1 is 2184 tons.

8.2. Ozone season NO<sub>x</sub> budget demonstration. -- Through the imposition of ozone season NO<sub>x</sub> limitations under section 5, and assumption of maximum operating capacity or use of a limitation on operating time for a unit during the ozone season, the Secretary shall demonstrate to the Administrator that the ozone season NO<sub>x</sub> emissions from all applicable units under subsection 4.1 meets the ozone season NO<sub>x</sub> budget for these units set forth in subsection 8.1.

8.3. New units. -- The Secretary shall revise the ozone season NO<sub>x</sub> budget demonstration under subsection 8.2 to accommodate the ozone season NO<sub>x</sub> emissions of any new unit that meets the applicability requirements set forth in subsection 4.1. The ozone season NO<sub>x</sub> emissions from any such new unit shall not cause the ozone season NO<sub>x</sub> budget set forth in subsection 8.1 to be exceeded.

**§45-40-9. Ozone Season NO<sub>x</sub> Reduction Requirements for Stationary Internal Combustion Engines.**

9.1. Ozone season NO<sub>x</sub> reduction. -- Effective May 1, 2009, the following owners or operators must reduce ozone season NO<sub>x</sub> emissions by an amount equal to or greater than the applicable ozone season NO<sub>x</sub> reduction listed below. The applicable ozone season NO<sub>x</sub> reduction is binding on the listed owners or operators, their successors and assigns:

Company	Ozone Season NO <sub>x</sub> Reduction
Dominion	668 tons
Columbia Gas Transmission	235 tons
<b>Total</b>	<b>903 tons</b>

9.2. Compliance plan. -- Effective May 1, 2009, an owner or operator of a large stationary internal combustion engine under subsection 4.2 must not operate such engine in the period May 1 through September 30 of 2009 and any subsequent year unless the owner or operator demonstrates the applicable ozone season NO<sub>x</sub> reduction under subsection 9.1 through the requirements of an approved compliance plan. The compliance plan must meet the following provisions:

9.2.a. Reserved;

9.2.b. Reserved;

9.2.c. The compliance plan must demonstrate quantifiable and enforceable NO<sub>x</sub> emission reductions equal to or greater than the applicable ozone season NO<sub>x</sub> reduction set forth in subsection 9.1, taking into account any creditable reduction in NO<sub>x</sub> emissions under subdivisions 9.2.e, 9.2.f, 9.2.g, 9.2.h or 9.2.i;

9.2.d. The compliance plan may include and affect some or all stationary internal combustion engines or other significant NO<sub>x</sub> emitting equipment at an individual facility, at several facilities, or at all facilities in West Virginia that are controlled by the same owner or operator;

9.2.e. The compliance plan may include credit for reductions in NO<sub>x</sub> emissions due to the installation and operation of NO<sub>x</sub> control equipment on large stationary internal combustion engines under subsection 9.1. The owner or operator will demonstrate to the satisfaction of the Secretary any creditable reductions in NO<sub>x</sub> emissions from the installation and operation of such NO<sub>x</sub> control equipment. The credit for reductions in NO<sub>x</sub> emissions must be quantified based on the difference between uncontrolled and controlled NO<sub>x</sub> emission rates, and ozone season operating hours;

9.2.f. The compliance plan may include credit for reductions in NO<sub>x</sub> emissions due to the installation and operation of NO<sub>x</sub> control equipment on uncontrolled stationary internal combustion engines not under subsection 4.2. The owner or operator will demonstrate to the satisfaction of the Secretary any creditable reductions in NO<sub>x</sub> emissions from the installation and operation of such NO<sub>x</sub> control equipment. Creditable reductions must be limited to reductions achieved after 1995 and from controls that were not part of the NO<sub>x</sub> SIP Call engine inventory. The credit for reductions in NO<sub>x</sub> emissions must be quantified

based on the difference between uncontrolled and controlled NO<sub>x</sub> emission rates, and ozone season operating hours;

9.2.g. The compliance plan may include credit for reductions in NO<sub>x</sub> emissions due to replacement of any stationary internal combustion engines or other significant NO<sub>x</sub>-emitting equipment. The owner or operator will demonstrate to the satisfaction of the Secretary that the historic ozone season load capacity of any stationary internal combustion engine or other significant NO<sub>x</sub>-emitting equipment no longer in operation has been or would be replaced by one or more new stationary internal combustion engines, electric motors or turbines during each ozone season. The credit for reductions in NO<sub>x</sub> emissions must be quantified based on the replaced engine's or other significant NO<sub>x</sub>-emitting equipment's ozone season NO<sub>x</sub> emission rate and ozone season operating hours, and the projected emission rate and ozone season operating hours of any new replacement stationary internal combustion engines, electric motors or turbines;

9.2.h. The compliance plan may include credit for reductions in NO<sub>x</sub> emissions due to reductions from shifting historic load capacity from an uncontrolled engine to a controlled engine, electric motor or turbine. The owner or operator will demonstrate to the satisfaction of the Secretary that a quantifiable net reduction in NO<sub>x</sub> emissions has occurred or will occur due to a direct shift of ozone season load capacity from an uncontrolled engine to a controlled engine, electric motor or turbine. The credit for reductions in NO<sub>x</sub> emissions must be quantified based on the uncontrolled engine's historic ozone season load capacity, NO<sub>x</sub> emission rate (in g/bhp-hr), ozone season operating hours (in hr/ozone season), and the shifted ozone season load capacity, NO<sub>x</sub> emission rate (in g/bhp-hr) and ozone season operating hours (in hr/ozone season) of the controlled stationary internal combustion engine, electric motor or turbine;

9.2.i. The compliance plan may include credit for reductions in NO<sub>x</sub> emissions due to the installation and operation of NO<sub>x</sub> controls on significant NO<sub>x</sub> emitting equipment other than stationary internal combustion engines. The owner or operator will demonstrate to the satisfaction of the Secretary any creditable reductions in NO<sub>x</sub> emissions from such NO<sub>x</sub> emitting equipment. Creditable reductions must be limited to reductions achieved after 1995 and from controls that were not part of the NO<sub>x</sub> SIP Call inventory. The credit for reductions in NO<sub>x</sub> emissions must be quantified based on the difference between NO<sub>x</sub> emission rates prior to installation of controls and controlled NO<sub>x</sub> emission rates, and ozone season operating hours;

9.2.j. The compliance plan must include the following:

9.2.j.1. A list of affected engines or affected NO<sub>x</sub> emitting equipment subject to the plan, including the manufacturer, model number, facility location and facility identification number;

9.2.j.2. The projected ozone season hours of operation for each affected engine or affected NO<sub>x</sub> emitting equipment and supporting documentation;

9.2.j.3. A description of the NO<sub>x</sub> emission controls installed, or to be installed, on each affected engine or affected NO<sub>x</sub> emitting equipment, date or proposed date of installation, and documentation to support the controlled NO<sub>x</sub> emission rates;

9.2.j.4. The uncontrolled and controlled NO<sub>x</sub> emission rates in lb/hr and tons per ozone season for each affected engine or affected NO<sub>x</sub> emitting equipment, as applicable;

9.2.j.5. A numerical demonstration that the sum of creditable NO<sub>x</sub> emission reductions (in tons) obtained from all affected engines or affected NO<sub>x</sub> emitting equipment included under a compliance plan will be equivalent to or greater than the owner or operator's applicable ozone season NO<sub>x</sub> reduction under subsection 9.1, taking into account any creditable reductions in NO<sub>x</sub> emissions under subdivisions 9.2.e, 9.2.f, 9.2.g, 9.2.h or 9.2.i; and



9.2.j.6. Performance test protocol and provisions for periodic monitoring, reporting and recordkeeping for each affected engine or affected NO<sub>x</sub> emitting equipment.

9.2.k. Any creditable reductions in NO<sub>x</sub> emissions under subdivisions 9.2.e, 9.2.f, 9.2.g, 9.2.h or 9.2.i must be quantifiable and enforceable through limitations included in a federally enforceable permit or compliance order; and

9.2.l. Any owner or operator with an approved compliance plan under subsection 9.2 may amend the plan with the written approval of the Secretary. Any NO<sub>x</sub> emission rate or limitation included in such an amendment must be reflected in a federally enforceable permit or compliance order. The Secretary will either approve by order or disapprove by certified mail the amended compliance plan within 90 days of submission, and notify the Administrator of the compliance plan amendment approval upon issuance of order.

9.3. Monitoring requirements. -- Any owner or operator of an affected engine or affected NO<sub>x</sub> emitting equipment subject to a compliance plan under subsection 9.2 must comply with the following monitoring requirements for each affected engine or affected NO<sub>x</sub> emitting equipment:

9.3.a. The owner or operator must complete an initial performance test consistent with the requirements of 40 CFR Part 60, Appendix A, following installation of NO<sub>x</sub> emission controls required to achieve the NO<sub>x</sub> emission rate limit specified in subdivision 9.2.k; and

9.3.b. For the ozone season beginning in 2009, and each ozone season thereafter, the owner or operator will perform periodic monitoring sufficient to yield reliable data which demonstrate compliance with the limitations specified in subdivision 9.2.k. Such periodic monitoring must include:

9.3.b.1. A continuous emission monitoring system that complies with 40 CFR Part 75 or 40 CFR Part 60 and the quality assurance procedures specified in 40 CFR Part 60, Appendix F; or

9.3.b.2. Performance tests consistent with the requirements of 40 CFR Part 60, Appendix A, or portable monitors using ASTM D6522-00; and

9.3.b.2.A. A parametric monitoring program that specifies operating parameters, and their ranges, that will provide reasonable assurance that each affected engine or affected NO<sub>x</sub> emitting equipment's emissions are consistent with the requirements of a compliance plan under subsection 9.2. Any such parametric monitoring program must be approved by the Secretary; or

9.3.b.2.B. A predictive emissions measurement system that relies on automated data collection from instruments. Any such predictive emissions measurement system must be approved by the Secretary.

9.4. Recordkeeping requirements. -- Any owner or operator of an affected engine or affected NO<sub>x</sub> emitting equipment subject to a compliance plan under subsection 9.2 must comply with the following recordkeeping requirements:

9.4.a. Maintain all records necessary to demonstrate compliance with the requirements of the compliance plan and subsection 9.4 for a period of five calendar years at the facility where an affected engine or affected NO<sub>x</sub> emitting equipment is located. Such records will be made available to the Secretary or Administrator upon request; and

9.4.b. For each affected engine or affected NO<sub>x</sub> emitting equipment subject to a compliance plan under subsection 9.2, the owner or operator will maintain records of:

9.4.b.1. Identification and location of each affected engine or affected NO<sub>x</sub> emitting equipment;

9.4.b.2. Calendar date of record;

9.4.b.3. The number of hours the affected engine or affected NO<sub>x</sub> emitting equipment is operated during each ozone season compared to projected operating hours;

9.4.b.4. Type and quantity of fuel combusted; and

9.4.b.5. The results of all compliance tests.

9.5. Reporting requirements. -- Any owner or operator of an affected engine or affected NO<sub>x</sub> emitting equipment subject to a compliance plan under subsection 9.2 must:

9.5.a. Notify the Secretary of any performance test under paragraph 9.3.b.2 at least 15 days in advance of such test;

9.5.b. Submit results of all performance tests to the Secretary within 30 days of completion of such tests; and

9.5.c. Submit a report which documents the total ozone season NO<sub>x</sub> emissions and certifies compliance with the compliance plan for each affected engine or affected NO<sub>x</sub> emitting equipment to the Secretary by October 31 of each year, beginning in 2009. The report must demonstrate and certify compliance with the applicable ozone season NO<sub>x</sub> reduction set forth in subsection 9.1.

**§45-40-10. Ozone Season NO<sub>x</sub> Reduction Requirements for Emissions of NO<sub>x</sub> from Cement Manufacturing Kilns.**

10.1. Standard requirements. -- Effective May 1, 2009, an owner or operator of any Portland cement kiln subject to this section must not operate the kiln during May 1 through September 30 unless the kiln has installed and operates during May 1 to September 30 with low-NO<sub>x</sub> burners, mid-kiln firing or alternative control techniques, subject to approval by the Administrator, that achieve at least the same emissions decreases as low-NO<sub>x</sub> burners or mid-kiln firing.

10.2. NO<sub>x</sub> compliance plan. -- Any owner or operator of a source subject to the standard requirements of subsection 10.1 may elect to use NO<sub>x</sub> reductions from any non-affected kiln at a source with a Portland cement kiln under subsection 4.3. If the owner or operator so elects, he or she must submit for approval to the Administrator by May 1, 2009 a NO<sub>x</sub> compliance plan which demonstrates the method(s) by which the operator will achieve NO<sub>x</sub> reductions from non-affected kilns which achieve at least the same emissions decreases set forth in the standard requirements of subsection 10.1.

10.3. Reporting requirements. -- Any owner or operator subject to the standard requirements of subsection 10.1 must comply with the following reporting requirements:

10.3.a. By May 1, 2009, submit to the Secretary and Administrator the identification number and type of each kiln subject to this section, the name and address of the plant where the kiln is located and the name and telephone number of the person responsible for demonstrating compliance with this section; and

10.3.b. Submit a report documenting for that kiln the total NO<sub>x</sub> emissions from May 1 through September 30 of each year to the Secretary and Administrator by October 31 of each year, beginning in 2009.

10.4. Monitoring requirements.

10.4.a. Any owner or operator of a kiln subject to this section must complete an initial performance test and subsequent annual testing consistent with the requirements of 40 CFR Part 60, Appendix A, Method 7, 7A, 7C, 7D or 7E; and

10.4.b. The operator may use the results of continuous emission monitoring system (CEMS) to replace the annual testing requirements set forth in subdivision 10.4.a. Such equipment must be installed and operated consistent with 40 CFR Part 75.

10.5. Recordkeeping requirements. -- Any owner or operator of a kiln subject to this section must produce and maintain records which include, but are not limited to:

10.5.a. The emissions, in pounds of NO<sub>x</sub> per ton of clinker produced from each affected Portland cement kiln;

10.5.b. The type of control used for each affected Portland cement kiln;

10.5.c. The date, time and duration of any startup, shutdown or malfunction in the operation of any of the cement kilns or the emissions monitoring equipment;

10.5.d. The results of any performance testing;

10.5.e. Daily cement kiln production records; and

10.5.f. All records required to be produced or maintained will be retained on site for a minimum of 5 years and be made available to the Secretary or Administrator upon request.

**§45-40-11. Inconsistency Between Rules.**

11.1. In the event of any inconsistency between this rule and any other rule of the West Virginia Department of Environmental Protection, the inconsistency will be resolved by the determination of the Secretary and the determination will be based upon the application of the more stringent provision, term, condition, method or rule.