

### **3745-14-01 Definitions and general provisions.**

[Comment: For dates and availability of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see paragraph (F) of this rule titled "referenced materials."]

(A) This chapter establishes the provisions and requirements to implement a NO<sub>x</sub> budget, portland cement kilns, and a stationary (large) internal combustion engines program in the state of Ohio as a means of control and reduction of NO<sub>x</sub> emissions.

(B) Definitions.

(1) Except as otherwise provided in this rule, the definitions in rule 3745-15-01 of the Administrative Code shall apply to this chapter.

(2) As used in this rule and in rules 3745-14-03, 3745-14-04 and 3745-14-08 of the Administrative Code (pertaining to NO<sub>x</sub> budget program and other sources identified in paragraph (A) of this rule):

(a) "Acid Rain emissions limitation" means, as defined in 40 CFR 72.2, a limitation on emissions of sulfur dioxide or NO<sub>x</sub> under the acid rain program under Title IV of the Clean Air Act.

(b) "Administrator" means the administrator of the United States environmental protection agency or the administrator's duly authorized representative.

(c) "AP-42" means the USEPA document "Compilation of Air Pollutant Emissions Factors, Volume I: Stationary Point and Area Sources."

(d) "ASTM" means the "American Society for Testing and Materials," 100 Barr Harbor Drive, West Conshohocken, Pennsylvania.

(e) "Automated data acquisition and handling system" or "DAHS" means that component of the CEMS, or other emissions monitoring system approved for use under paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code, designed to interpret and convert individual output signals from pollutant concentration monitors, flow monitors, diluent gas monitors, and other component parts of the monitoring system to produce a continuous record of the measured parameters in the measurement units required by paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code.

(f) "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, excluding CO boilers associated with combusting CO from fluidized catalytic crackers at petroleum refineries.

(g) "Btu" means British thermal unit.

(h) "CAA" means the Clean Air Act as contained in 42 USC 7401 to 7671q.

- (i) "CO" means carbon monoxide.
- (j) "Combined cycle system" means a system comprised of one or more combustion turbines, heat recovery steam generators, and steam turbines configured to improve overall efficiency of electricity generation or steam production.
- (k) "Combustion turbine" means an enclosed fossil or other fuel-fired device that is comprised of 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.
- (l) "Commence commercial operation" means, with regard to a unit that serves a generator, to have begun to produce steam, gas, or other heated medium used to generate electricity for sale or use, including test generation. Except as provided in paragraph (C)(2) of this rule, for a unit that is a NOx budget unit under paragraph (C)(1) of this rule on the date the unit commences commercial operation, such date shall remain the unit's date of commencement of commercial operation even if the unit is subsequently modified, reconstructed, or repowered. Except as provided in paragraph (C)(2) of this rule, for a unit that is not a NOx budget unit under paragraph (C)(1) of this rule on the date the unit commences commercial operation, the date the unit becomes a NOx budget unit under paragraph (C)(1) of this rule shall be the unit's date of commencement of commercial operation.
- (m) "Commence operation" means to have begun any mechanical, chemical, or electronic process, including, with regard to a unit, start-up of a unit's combustion chamber. Except as provided in paragraph (C)(2) of this rule, for a unit that is a NOx budget unit under paragraph (C)(1) of this rule on the date of commencement of operation, such date shall remain the unit's date of commencement of operation even if the unit is subsequently modified, reconstructed, or repowered. Except as provided in paragraph (C)(2) of this rule, for a unit that is not a NOx budget unit under paragraph (C)(1) of this rule on the date of commencement of operation, the date the unit becomes a NOx budget unit under paragraph (C)(1) of this rule shall be the unit's date of commencement of operation.
- (n) "Common stack" means a single flue through which emissions from two or more units are exhausted.
- (o) "Continuous emission monitoring system" or "CEMS" means the equipment required under paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code to sample, analyze, measure, and provide, by readings taken at least once every fifteen minutes (using an automated DAHS, a permanent record of NOx emissions, stack gas volumetric flow rate or stack gas moisture content (as applicable), in a manner consistent with paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code. The following are the principal types of continuous emission monitoring systems required under paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code and 40 CFR Part 75:

- (i) A flow monitoring system, consisting of a stack flow rate monitor and an automated DAHS. A flow monitoring system provides a permanent, continuous record of stack gas volumetric flow rate, in units of standard cubic feet per hour (scfh).
- (ii) A NO<sub>x</sub> concentration monitoring system, consisting of a NO<sub>x</sub> pollutant concentration monitor and an automated DAHS. A NO<sub>x</sub> concentration monitoring system provides a permanent, continuous record of NO<sub>x</sub> emissions in units of parts per million (ppm).
- (iii) A NO<sub>x</sub> emission rate (or NO<sub>x</sub>-diluent) monitoring system, consisting of a NO<sub>x</sub> pollutant concentration monitor, a diluent gas (carbon dioxide or oxygen) monitor, and an automated DAHS. A NO<sub>x</sub> concentration monitoring system provides a permanent, continuous record of: NO<sub>x</sub> concentration in units of parts per million, diluent gas concentration in units of percent carbon dioxide or oxygen, and NO<sub>x</sub> emission rate in units of pounds per mmBtu.
- (iv) A moisture monitoring system, as defined in 40 CFR 75.11(b)(2). A moisture monitoring system provides a permanent, continuous record of the stack gas moisture content, in units of per cent water.
- (p) "Control period" means the period beginning May first of a year and ending on September thirtieth of the same year, inclusive.
- (q) "DAHS" means data acquisition and handling system.
- (r) "Designated representative" means, for a NO<sub>x</sub> budget source or NO<sub>x</sub> budget unit at the source, the natural person who is authorized by the owner and operator of the source and all NO<sub>x</sub> budget units at the source to represent and legally bind each owner and operator in matters pertaining to the NO<sub>x</sub> budget program. For Title V sources, the designated representative shall be the responsible official under paragraph (II) of rule 3745-77-01 of the Administrative Code. For non-Title V sources, the designated representative shall be the signatory authority under paragraph (B) of rule 3745-31-04 of the Administrative Code.
- (s) "Director" means the director of the Ohio environmental protection agency.
- (t) "Electricity for sale under firm contract to the grid" means electricity for sale where the capacity involved is intended to be available at all times during the period covered by a guaranteed commitment to deliver, even under adverse conditions.
- (u) "Emissions" means air pollutants exhausted from a unit or source into the atmosphere, as measured, recorded, and reported to the administrator by the designated representative and as determined by the administrator in accordance with paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code, or as measured, recorded and reported to the director by the designated representative in accordance with paragraph (H) of rule 3745-14-08 of the Administrative

Code.

- (v) "Energy information administration" means the energy information administration of the United States department of energy.
- (w) "Fossil fuel" means natural gas, petroleum, coal, or any form of solid, liquid, or gaseous fuel derived from such material.
- (x) "Fossil fuel-fired" means one of the following, with regard to a unit:
  - (i) For units that commenced operation before January 1, 1996, the combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel actually combusted comprises more than fifty per cent of the annual heat input, on a Btu basis, during 1995, or, if a unit had no heat input in 1995, during the last year of operation of the unit prior to 1995.
  - (ii) For units that commenced operation on or after January 1, 1996 and before January 1, 1997, the combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel actually combusted comprises more than fifty per cent of the annual heat input, on a Btu basis, during 1996.
  - (iii) For units that commence operation on or after January 1, 1997, one of the following:
    - (a) The combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel actually combusted comprises more than fifty per cent of the annual heat input, on a Btu basis, during any year.
    - (b) The combustion of fossil fuel, alone or in combination with any other fuel, where fossil fuel is projected to comprise more than fifty per cent 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.
- (y) "Generator" means a device that produces electricity.
- (z) "Heat input" means the product (in mmBtu per time) of the gross calorific value of the fuel (in mmBtu per pound) and the fuel feed rate into a combustion device (in pounds of fuel per time), as measured, recorded, and reported to the director by the designated representative and as determined by the director in accordance with rule 3745-14-08 of the Administrative Code, and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust from other sources.
- (aa) "Heat input rate" means the amount of heat input (in mmBtu) divided by unit operating time (in hours) or, with regard to a specific fuel, the amount of heat input attributed to the fuel (in mmBtu) divided by the unit operating time (in hours) during which the unit combusts the fuel.
- (bb) "Life-of-the-unit, firm power contractual arrangement" means a unit

participation power sales agreement under which a utility or industrial customer reserves, or is entitled to receive, a specified amount or percentage of nameplate capacity and associated energy from any specified unit and pays its proportional amount of such unit's total costs, pursuant to a contract that meets one of the following:

- (i) For the life of the unit.
  - (ii) For a cumulative term of no less than thirty years, including contracts that permit an election for early termination.
  - (iii) For a period equal to or greater than twenty-five years or seventy per cent of the economic useful life of the unit determined as of the time the unit is built, with option rights to purchase or release some portion of the nameplate capacity and associated energy generated by the unit at the end of the period.
- (cc) "Maximum design heat input" means the ability of a unit to combust a stated maximum amount of fuel per hour on a steady state basis, as determined by the physical design and physical characteristics of the unit.
- (dd) "Maximum potential hourly heat input" means an hourly heat input used for reporting purposes when a unit lacks certified monitors to report heat input. If the unit intends to use Appendix D of 40 CFR Part 75 to report heat input, this value shall be calculated, in accordance with 40 CFR Part 75, using the maximum fuel flow rate and the maximum gross calorific value. If the unit intends to use a flow monitor and a diluent gas monitor, this value shall be reported, in accordance with 40 CFR Part 75, using the maximum potential flow rate and either the maximum carbon dioxide concentration (in per cent carbon dioxide) or the minimum oxygen concentration (in per cent oxygen).
- (ee) "Maximum potential NO<sub>x</sub> emission rate" means the emission rate of NO<sub>x</sub> (in pounds per mmBtu) calculated in accordance with Section 3 of Appendix F of 40 CFR Part 75, using the maximum potential concentration of NO<sub>x</sub> as defined in Section 2 of Appendix A of 40 CFR Part 75, and either the maximum oxygen concentration (in per cent oxygen) or the minimum carbon dioxide concentration (in per cent carbon dioxide), under all operating conditions of the unit except for unit start up, shutdown, and upsets.
- (ff) "Maximum rated hourly heat input" means a unit-specific maximum hourly heat input (mmBtu) which is the higher of the manufacturer's maximum rated hourly heat input or the highest observed hourly heat input.
- (gg) "mmBtu" means million. British thermal unit.
- (hh) "MWe" means megawatt electrical.
- (ii) "Monitoring system" means any monitoring system that meets the requirements of rule 3745-14-08 of the Administrative Code, including a continuous

emissions monitoring system, an excepted monitoring system, or an alternative monitoring system.

- (jj) "Nameplate capacity" means the maximum electrical generating output (in MWe) that a generator can sustain over a specified period of time when not restricted by seasonal or other deratings as measured in accordance with the United States department of energy standards.
- (kk) "Non-Title V permit" means a federally enforceable permit administered by the director pursuant to the Clean Air Act and regulatory authority under the Clean Air Act, other than Title V of the Clean Air Act and Chapter 3745-77 of the Administrative Code.
- (ll) "NOx" means all oxides of nitrogen which are determined to be ozone precursors, including, but not limited to, nitrogen oxide and nitrogen dioxide, but excluding nitrous oxide.
- (mm) "NOx budget source" means a source that includes one or more NOx budget units.
- (nn) "NOx budget program" means a NOx air pollution control program approved by the administrator pursuant to 40 CFR 51.121 or established by the administrator pursuant to 40 CFR 52.34, as a means of mitigating the interstate transport of ozone and NOx.
- (oo) "NOx budget unit" means a unit that is subject to the requirements of the NOx budget program.
- (pp) "Operator" means any person who operates, controls, or supervises a NOx budget unit or a NOx budget source and shall include, but not be limited to, any holding company, utility system, or plant manager of such a unit or source.
- (qq) "Owner" means any of the following persons:
  - (i) Any holder of any portion of the legal or equitable title in a NOx budget unit.
  - (ii) Any holder of a leasehold interest in a NOx budget unit.
  - (iii) Any purchaser of power from a NOx budget unit under a life-of-the-unit, firm power contractual arrangement (however, unless expressly provided for in a leasehold agreement, owner shall not include a passive lessor, or a person who has an equitable interest through such lessor, whose rental payments are not based, either directly or indirectly, upon the revenues or income from the NOx budget unit.
- (rr) "Potential electrical output capacity" means thirty-three per cent of a unit's maximum design heat input.
- (ss) "Receive" or "receipt of" means, when referring to the director or the administrator, to come into possession of a document, information, or

correspondence (whether sent in writing or by authorized electronic transmission), as indicated in an official correspondence log, or by a notation made on the document, information, or correspondence, by the director or the administrator in the regular course of business.

- (tt) "Reference method" means any direct test method of sampling and analyzing for an air pollutant as specified in Appendix A of 40 CFR Part 60.
  - (uu) "Source" means any governmental, institutional, commercial, or industrial structure, installation, plant, building, or facility that emits or has the potential to emit any regulated air pollutant under the Clean Air Act. For purposes of Section 502(c) of the Clean Air Act, a source, including a source with multiple units, shall be considered a single facility.
  - (vv) "State" means one of the forty-eight contiguous states or a portion thereof or the District of Columbia that is subject to a NO<sub>x</sub> budget program under Section 110(c) or Section 126 of the Clean Air Act.
  - (ww) "State program budget" means the total number of NO<sub>x</sub> tons available to the NO<sub>x</sub> budget program, for use in a given control period.
  - (xx) "Submit" or "serve" means to send or transmit a document, information, or correspondence to the person specified in accordance with the applicable regulation by any of the following:
    - (i) In person.
    - (ii) By United States postal service.
    - (iii) By other means of dispatch or transmission and delivery.
- Compliance with any submission, service, or mailing deadline shall be determined by the date of dispatch, transmission, or mailing and not the date of receipt.
- (yy) "Title V operating permit" means a permit issued under Chapter 3745-77 of the Administrative Code.
  - (zz) "Title V operating permit regulations" means Chapters 3745-77 and 3745-78 of the Administrative Code.
  - (aaa) "Ton" or "tonnage" means any "short ton" (i.e., two thousand pounds). For the purpose of determining compliance with the NO<sub>x</sub> budget program, total tons for a control period shall be calculated as the sum of all recorded hourly emissions (or the tonnage equivalent of the recorded hourly emissions rates) in accordance with paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code, or the sum of all daily emissions in accordance with paragraph (H) of rule 3745-14-08 of the Administrative Code, with any remaining fraction of a ton equal to or greater than 0.50 ton deemed to equal one ton and any fraction of a ton less than 0.50 ton deemed to equal zero tons.

- (bbb) "Unit" means a fossil fuel-fired stationary boiler, combustion turbine, or combined cycle system.
  - (ccc) "Unit operating day" means a calendar day in which a unit combusts any fuel.
  - (ddd) "Unit operating hour" or "hour of unit operation" means any hour (or fraction of an hour) during which a unit combusts any fuel.
- (3) As used in rule 3745-14-11 of the Administrative Code (pertaining to NOx budget program requirements for portland cement manufacturing):
- (a) "Clinker" means the product of a portland cement kiln from which finished cement is manufactured by milling and grinding.
  - (b) "Long dry kiln" means a kiln fourteen feet or larger in diameter, four hundred feet or greater in length, which employs no preheating of the feed. The inlet feed to the kiln is dry.
  - (c) "Long wet kiln" means a kiln fourteen feet or larger in diameter, four hundred feet or greater in length, which employs no preheating of the feed. The inlet feed to the kiln is a slurry.
  - (d) "Low-NOx burners" means combustion equipment designed to reduce flame turbulence, delay fuel/air mixing, and establish fuel-rich zones for initial combustion.
  - (e) "Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.
  - (f) "Mid-kiln system firing" means the secondary firing in kilns by injecting solid fuel at an intermediate point in the kiln system using a specially designed feed injection mechanism for the purpose of decreasing NOx emissions through both of the following:
    - (i) Burning part of the fuel at a lower temperature.
    - (ii) Reducing conditions at the solid fuel injection point that may destroy some of the NOx formed upstream in the kiln burning zone.
  - (g) "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.
  - (h) "Portland cement kiln" means a system, including any solid, gaseous or liquid fuel combustion equipment, used to heat, calcine and fuse raw materials, including limestone and clay, to produce portland cement clinker.
  - (i) "Preheater kiln" means a kiln system where the feed to the kiln is preheated in



cyclone chambers which utilize 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.

- (j) "Preheater kiln" means a kiln system where the feed to the kiln is preheated in cyclone chambers prior to the final fusion in a kiln which forms clinker.
  - (k) "Shutdown" means the cessation of operation of a portland cement kiln for any purpose.
  - (l) "Startup" means the setting in operation of a portland cement kiln for any purpose.
- (4) As used in rule 3745-14-12 of the Administrative Code (pertaining to NO<sub>x</sub> budget program requirements for stationary internal combustion engines):
- (a) "Affected engine" means any stationary internal combustion engine that is a large NO<sub>x</sub> SIP call engine, or other stationary internal combustion engine that is subject to NO<sub>x</sub> control under a compliance plan established pursuant to paragraph (B) of rule 3745-14-12 of the Administrative Code.
  - (b) "Engine seasonal NO<sub>x</sub> 2007 tonnage reduction" means the year 2007 control period NO<sub>x</sub> emissions reductions value for a large NO<sub>x</sub> SIP call engine which is calculated as the difference between the 2007 base NO<sub>x</sub> emissions and the 2007 budget NO<sub>x</sub> emissions contained in the NO<sub>x</sub> SIP call engine inventory. The total engine seasonal NO<sub>x</sub> 2007 tonnage reduction for all large NO<sub>x</sub> SIP call engines in Ohio is 2730 tons.
  - (c) "Facility seasonal NO<sub>x</sub> 2007 tonnage reduction" means the total of the engine seasonal NO<sub>x</sub> 2007 tonnage reductions attributable to all of an owner/operator's large NO<sub>x</sub> SIP call engines.
  - (d) "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 defined in paragraph (B)(4)(e) of this rule) as emitting more than one ton of NO<sub>x</sub> emissions per average control period day in 1995.
  - (e) "NO<sub>x</sub> SIP call engine inventory" means the inventory of internal combustion engines compiled by the United States environmental protection agency as part of the NO<sub>x</sub> SIP call rule, including the Federal Register notice entitled "Technical Amendment to the Finding of Significant Contribution and Rulemaking for Certain States for Purposes of Reducing Regional Transport of Ozone," and the adjustment of the 2007 budget NO<sub>x</sub> control efficiency to eighty-two per cent for large gas-fired engines discussed in the Federal Register notice entitled "Interstate Ozone Transport: Response to Court Decisions on the NO<sub>x</sub> SIP Call, NO<sub>x</sub> SIP Call Technical Amendments, and Section 126 Rules."
  - (f) "Past NO<sub>x</sub> emission rate" means the emission rate of an affected engine in grams per brake horsepower-hour 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 appropriate past NO<sub>x</sub> emission rate shall be evaluated and approved or denied by the director on a case-by-case basis using, for example, appropriate emission factors or data from the NO<sub>x</sub> SIP call engine inventory. For large NO<sub>x</sub> SIP call engines, the past NO<sub>x</sub> emission rate is the uncontrolled emission rate.

- (g) "Projected operating hours" means the projected actual number of hours of operation per control period for an affected engine.
- (h) "Projected NO<sub>x</sub> emission rate" means the projected emission rate in grams per brake horsepower-hour 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 twelve 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.

(C) Applicability.

- (1) All of the following units shall be NO<sub>x</sub> budget units, and any source that includes one or more such units shall be a NO<sub>x</sub> budget source, subject to the requirements of this chapter:
  - (a) For EGUs:
    - (i) For units, other than cogeneration units, that commenced operation before January 1, 1997, a unit serving during 1995 or 1996 a generator that had a nameplate capacity greater than twenty-five MWe and produced electricity for sale under a firm contract to the electric grid.
    - (ii) For units, other than cogeneration units, that commenced operation on or after January 1, 1997 and before January 1, 1999, a unit serving during 1997 or 1998 a generator that had a nameplate capacity greater than twenty-five MWe and produced electricity for sale under a firm contract to the electric grid.
    - (iii) For units, other than cogeneration units, that commence operation on or after January 1, 1999, a unit serving at any time a generator that has a nameplate capacity greater than twenty-five MWe and produces electricity for sale.
    - (iv) For cogeneration units:
      - (a) For units commencing operation before January 1, 1997, a unit serving during 1995 or 1996 a generator with a nameplate capacity greater than twenty-five MWe and failing to qualify as an unaffected unit under 40 CFR 72.6(b)(4) for 1995 or 1996 under the "Acid Rain Program."

- (b) For units commencing operation in 1997 or 1998, a unit serving during 1997 or 1998 a generator with a nameplate capacity greater than twenty-five MWe and failing to qualify as an unaffected unit under 40 CFR 72.6(b)(4) for 1997 or 1998 under the "Acid Rain Program."
  - (c) For units commencing operation on or after January 1, 1999, a unit serving at any time a generator with a nameplate capacity greater than twenty-five MWe and failing to qualify as an unaffected unit under 40 CFR 72.6(b)(4) under the "Acid Rain Program" for any year.
- (b) For non-EGUs:
  - (i) For units, other than cogeneration units, that commenced operation before January 1, 1997, a unit that has a maximum design heat input greater than two hundred fifty mmBtu per hour and that did not serve during 1995 or 1996 a generator producing electricity for sale under a firm contract to the electric grid.
  - (ii) For units, other than cogeneration units, that commenced operation on or after January 1, 1997 and before January 1, 1999, a unit that has a maximum design heat input greater than two hundred fifty mmBtu per hour and that did not serve during 1997 or 1998 a generator producing electricity for sale under a firm contract to the electric grid.
  - (iii) For units, other than cogeneration units, that commence operation on or after January 1, 1999, a unit with a maximum design heat input greater than two hundred fifty mmBtu per hour that:
    - (a) At no time serves a generator producing electricity for sale.
    - (b) At any time serves a generator producing electricity for sale, if any such generator has a nameplate capacity of twenty-five MWe or less and has the potential to use no more than fifty per cent of the potential electrical output capacity of the unit.
  - (iv) For cogeneration units:
    - (a) For units commencing operation before January 1, 1997, a unit with a maximum design heat input greater than two hundred fifty mmBtu per hour and qualifying as an unaffected unit under 40 CFR 72.6(b)(4) under the "Acid Rain Program" for 1995 and 1996.
    - (b) For units commencing operation in 1997 or 1998, a unit with a maximum design heat input greater than two hundred fifty mmBtu per hour and qualifying as an unaffected unit under 40 CFR 72.6(b)(4) under the "Acid Rain Program" for 1997 and 1998.
    - (c) For units commencing on or after January 1, 1999, a unit with a maximum design heat input greater than two hundred fifty mmBtu per

hour and qualifying as an unaffected unit under 40 CFR 72.6(b)(4) under the "Acid Rain Program" for each year.

(2) The following units shall be exempt from the requirements of the NO<sub>x</sub> budget program:

- (a) Any unit under paragraph (C)(1) of this rule that is subject to the federal Cross-State Air Pollution Rule (CSAPR) program under 40 CFR 52.38 or a replacement established to address transport under Section 110(c) or Section 126 of the CAA.

[Comment: The above exemption applies to units under paragraph (C)(1) of this rule, for any ozone season to which 40 CFR 52.38 applies. Ohio EPA is inserting this language because the United States environmental protection agency will not administer the NO<sub>x</sub> SIP Call trading program after 2008 (see 40 CFR 51.121(r) or the Clean Air Interstate Rule (CAIR) program after 2014 (see 40 CFR 51.123(ff)). Ohio will meet the NO<sub>x</sub> SIP Call obligations for these units through the CSAPR program under 40 CFR 52.38.

Should the United States environmental protection agency eliminate or suspend the CSAPR program, units previously exempted under this paragraph would need to meet the requirements of this chapter following the elimination or suspension of the federal CSAPR program unless replacement is established to address transport under Section 110(c) or Section 126 of the CAA.]

- (b) A unit under paragraph (C)(1) of this rule that has a federally enforceable permit that includes a NO<sub>x</sub> emission limitation restricting NO<sub>x</sub> emissions during a control period to twenty-five tons or less and restricts the unit to burning only natural gas or fuel oil during a control period in 2004 or later and that includes the special provisions in paragraph (C)(2)(e) of this rule shall be exempt from the requirements of this chapter, except for the provisions of this paragraph and paragraphs (B), (C)(1) and (E) of this rule. The NO<sub>x</sub> emission limitation under this paragraph shall restrict NO<sub>x</sub> emissions during the control period by one of the following methods:

- (i) A restriction on unit operating hours calculated by dividing the federally enforceable emission limitation, in tons, determined in accordance with paragraph (C)(2)(b) of this rule, by the unit's maximum potential hourly NO<sub>x</sub> mass emissions, which shall equal the unit's maximum rated hourly heat input multiplied by the highest default NO<sub>x</sub> emission rate applicable to the unit under 40 CFR 75.19(c), Table LM-2.
- (ii) A restriction on unit fuel usage calculated by dividing the federally enforceable emission limitation, in tons, determined in accordance with paragraph (C)(2)(b) of this rule, by the product of the heat value of the fuel to be used multiplied by the default NO<sub>x</sub> emission rate for the fuel to be used as specified in 40 CFR 75.19(c), Table LM-2.

- (c) The exemption under paragraph (C)(2)(b) of this rule shall become effective upon

one of the following:

- (i) The exemption shall become effective on the date on which the NOx emission limitation and the special provisions in the permit under paragraph (C)(2)(b) of this rule become final; or
  - (ii) If the NOx emission limitation and the special provisions in the permit under paragraph (C)(2)(b) of this rule become final during a control period and after the first date on which the unit operates during such control period, then the exemption shall become effective on May first of such control period, provided that such NOx emission limitation and the special provisions apply to the unit as of such first date of operation. If such NOx emission limitation and special provisions do not apply to the unit as of such first date of operation, then the exemption under paragraph (C)(2)(b) of this rule shall become effective on October first of the year during which such NOx emission limitation and the special provisions become final.
- (d) The director shall provide the administrator written notice of the issuance of any permit under paragraph (C)(2)(b) of this rule and, upon request, a copy of the permit.
- (e) The following special provisions apply to units exempt under paragraph (C)(2)(b) of this rule.
- (i) A unit exempt under paragraph (C)(2)(b) of this rule shall comply with the restriction on unit operating hours and fuel use described in paragraph (C)(2)(b) of this rule during the control period in each year.
  - (ii) A unit exempt under paragraph (C)(2)(b) of this rule shall report hours of unit operation or fuel usage during the control period in each year to the director by November first of that year.
  - (iii) For a period of five years from the date the records are created, the owners and operators of a unit exempt under paragraph (C)(2)(b) of this rule shall retain, at the source that includes the unit, records demonstrating that the conditions of the federally enforceable permit under paragraph (C)(2)(b) of this rule were met, including the restrictions on unit operating hours and fuel usage. The five-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the director or the administrator. The owners and operators bear the burden of proof that the unit met the restriction on unit operating hours and fuel use.
  - (iv) The owners and operators and, to the extent applicable, the designated representative of a unit exempt under paragraph (C)(2)(b) of this rule shall comply with the requirements of the NOx budget program concerning all periods for which the exemption is not in effect, even if such requirements arise, or shall be complied with, after the exemption takes effect.
  - (v) On the earlier of the following dates, a unit exempt under paragraph (C)(2)(b)

of this rule shall lose its exemption:

- (a) The date on which the restriction on unit operating hours and fuel use described in paragraph (C)(2)(b) of this rule is removed from the unit's federally enforceable permit or otherwise becomes no longer applicable to any control period starting in 2004.
  - (b) The first date on which the unit fails to comply, or with regard to which the owners and operators fail to meet their burden of proving that the unit is complying, with the restriction on unit operating hours and fuel use described in paragraph (C)(2)(b) of this rule during any control period starting in 2004.
- (vi) A unit that loses its exemption in accordance with paragraph (C)(2)(e)(v) of this rule shall be subject to the requirements of this chapter. For the purpose of applying permitting requirements under rule 3745-14-03 of the Administrative Code and applying monitoring requirements under rule 3745-14-08 of the Administrative Code, the unit shall be treated as commencing operation and, if the unit is covered by paragraph (C)(1)(b) of this rule, commencing commercial operation on the date the unit loses its exemption.

(D) Standard requirements.

(1) State program budget.

- (a) For EGUs: Ohio's state program budget for EGUs is forty-five thousand four hundred thirty-two tons of NO<sub>x</sub> for each control period for units under paragraph (C)(1)(a) of this rule. The sum of the total number of tons of NO<sub>x</sub> emitted from the NO<sub>x</sub> budget units under paragraph (C)(1)(a) for the control period plus the sum of the NO<sub>x</sub> emission limitations (in tons) for each EGU unit exempt under paragraph (C)(2) of this rule shall be less than or equal to the state program budget for EGUs.
- (b) For non-EGUs: Ohio's state program budget for non-EGUs is four thousand twenty-eight tons of NO<sub>x</sub> for each control period for units under paragraph (C)(1)(b) of this rule. The sum of the total number of tons of NO<sub>x</sub> emitted from the NO<sub>x</sub> budget units under paragraph (C)(1)(b) of this rule for the control period plus the sum of the NO<sub>x</sub> emission limitations (in tons) for each non-EGU unit exempt under paragraph (C)(2) of this rule shall be less than or equal to the state program budget for non-EGUs.
- (i) Unless all NO<sub>x</sub> budget units under paragraph (C)(1)(b) of this rule are exempt under paragraph (C)(2) of this rule, by May 1 of each year, Ohio EPA will conduct an annual review of actual NO<sub>x</sub> emissions during the previous control period from all NO<sub>x</sub> budget units under paragraph (C)(1)(b) of this rule, including any new units, to ensure the total emissions remain below the state program budget for non-EGUs.

- (ii) Should the total emissions for the control period exceed the state program budget for non-EGUs, Ohio EPA will, within one year of determining the exceedance of the state program budget, submit a revised state implementation plan to the United States Environmental Protection Agency which compensates for the budget shortfall and ensures the state program budget is met in future years.

(2) Permit requirements.

The owners or operators and, to the extent applicable, the designated representative of each NOx budget unit or NOx budget source shall meet the permit requirements in rule 3745-14-03 of the Administrative Code.

(3) Monitoring requirements.

- (a) The owners and operators and, to the extent applicable, the designated representative of each NOx budget source and each NOx budget unit at the source shall comply with the monitoring requirements of rule 3745-14-08 of the Administrative Code.
- (b) The emissions measurements recorded and reported in accordance with rule 3745-14-08 of the Administrative Code shall be used to determine compliance with the NOx state program budget under paragraph (D)(1) of this rule.

(4) Record keeping and reporting requirements.

- (a) Unless otherwise provided, the owners and operators of a NOx budget source and each NOx budget unit at the source shall keep on site at the source, or at a central location in Ohio for unattended sources, each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the director or the administrator. Records for unattended sources retained at a central location shall be available immediately at the central location upon the request of the director or administrator and within three days following receipt of a written request from the director or administrator.)
  - (i) Documents demonstrating the designated representative's authority necessary to carry out his or her duties and responsibilities under the NOx budget program on behalf of the owners and operators of the NOx budget source and of each NOx budget unit at the source and certifying that each such owner and operator shall be fully bound by the designated representative's representations, actions, inactions, or submissions and by any decision or order issued to the designated representative by the director, the Administrator, or a court regarding the source or unit, provided that the documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the selection of a new designated representative.

- (ii) All emissions monitoring information, in accordance with rule 3745-14-08 of the Administrative Code.
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget program.
  - (iv) Copies of all documents used to complete a permit application and any other submission under the NOx budget program or to demonstrate compliance with the requirements of the NOx budget program.
- (b) The designated representative of a NOx budget source and each NOx budget unit at the source shall submit the reports and compliance certifications required under the NOx budget program, including those under rule 3745-14-04 and rule 3745-14-08 of the Administrative Code.
- (5) Liability.
- (a) Any person who knowingly violates any requirement or prohibition of the NOx budget program, a permit, or an exemption under paragraph (C)(2) of this rule shall be subject to enforcement pursuant to applicable state and federal law.
  - (b) Any person who knowingly makes a false material statement in any record, submission, or report under the NOx budget program shall be subject to criminal enforcement pursuant to applicable state and federal law.
  - (c) No permit revision shall excuse any violation of the requirements of the NOx budget program that occurs prior to the date that the revision takes effect.
  - (d) Each NOx budget source and each NOx budget unit shall meet the requirements of the NOx budget program.
  - (e) Any provision of the NOx budget program that applies to a NOx budget source (including a provision applicable to the designated representative of a NOx budget source) shall also apply to the owners and operators of such source and of the NOx budget units at the source.
  - (f) Any provision of the NOx budget program that applies to a NOx budget unit (including a provision applicable to the designated representative of a NOx budget unit) shall also apply to the owners and operators of such unit. Except with regard to the requirements applicable to units with a common stack under rule 3745-14-08 of the Administrative Code, the owners and operators and the designated representative of one NOx budget unit shall not be liable for any violation by any other NOx budget unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (6) No provision of the NOx budget program, a permit application, a permit, or an exemption under paragraph (C)(2) of this rule shall be construed as exempting or excluding the owners and operators and, to the extent applicable, the designated



representative of a NOx budget source or NOx budget unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

(E) Computation of time.

- (1) Unless otherwise stated, any time period scheduled, under the NOx budget program, to begin on the occurrence of an act or event shall begin on the day the act or event occurs.
- (2) Unless otherwise stated, any time period scheduled, under the NOx budget program, to begin before the occurrence of an act or event shall be computed so that the period ends the day before the act or event occurs.
- (3) Unless otherwise stated, if the final day of any time period under the NOx budget program, except for the control period defined in paragraph (B)(2)(o) of this rule, falls on a weekend or a state or federal holiday, the time period shall be extended to the next business day.

(F) Referenced materials. This chapter includes references to certain subject matter or materials. The text of the referenced materials is not included in the rules contained in this chapter. Information on the availability of the referenced materials as well as the date of and the particular edition or version of the material is included in this rule. For materials subject to change, only the specific version specified in this rule are referenced. Material is referenced as it exists on the effective date of this rule. Except for subsequent annual publication of existing (unmodified) Code of Federal Regulation compilations, any amendment or revision to a referenced document is not referenced unless and until this rule has been amended to specify the new dates.

(1) Availability. The materials incorporated by reference are available as follows:

- (a) Clean Air Act as defined in this rule. Information and copies may be obtained by writing to: "Superintendent of Documents, Attn: New Orders, PO Box 371954, Pittsburgh, PA 15250-7954." The full text of the Act as amended in 1990 is also available in electronic format at [www.epa.gov/oar/caa/](http://www.epa.gov/oar/caa/). A copy of the Act is also available for inspection and use at most public libraries and "The State Library of Ohio."
- (b) Code of Federal Regulations. Information and copies may be obtained by writing to: "Superintendent of Documents, Attn: New Orders, PO Box 371954, Pittsburgh, PA 15250-7954." The full text of the CFR is also available in electronic format at <http://www.ecfr.gov/>. The CFR compilations are also available for inspection and use at most Ohio public libraries and "The State Library of Ohio."
- (c) "Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources" (AP-42). Information and copies may be obtained by writing to: "U.S. Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000." The full text of AP-42 is also available in electronic format at

<https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors>. AP-42 is also available for inspection and copying at most public libraries and "The State Library of Ohio."

- (d) Ohio EPA weekly review. Information and copies may be obtained by writing to: "Ohio EPA Legal Department, 50 W. Town Street, Columbus, Ohio, 43125." The full text of the Ohio EPA Weekly Review is also available in electronic format at <http://epa.ohio.gov/Actions.aspx>. The Ohio EPA Weekly Review compilations are also available for inspection and use at most Ohio public libraries and "The State Library of Ohio."
- (e) Federal Registrar. Information and copies may be obtained by writing to: "Superintendent of Documents, Attn: New Orders, PO Box 371954, Pittsburgh, PA 15250-7954." Text of the Federal Register is also available in electronic format at [www.federalregister.gov](http://www.federalregister.gov). The Federal Register is also available for inspection and use at most Ohio public libraries and "The State Library of Ohio."
- (f) American Society for Testing Materials (ASTM). Information and copies may be obtained by writing to: "ASTM International, 100 Bar Harbor Drive, P.O. Box C700, West Conshohocken, Pennsylvania 19428-2959." These documents are available for purchase at [www.astm.org](http://www.astm.org). ASTM documents are also generally available at local public libraries and "The State Library of Ohio."

(2) Referenced materials.

- (a) 40 CFR 51.121; "Findings and requirements for submission of State implementation plan revisions relating to emissions of oxides of nitrogen;" 63 FR 57491, Oct. 27, 1998, as amended at 63 FR 71225, Dec. 24, 1998; 64 FR 26305, May 14, 1999; 65 FR 11230, Mar. 2, 2000; 65 FR 56251, Sept. 18, 2000; 69 FR 21642, Apr. 21, 2004; 70 FR 25317, May 12, 2005; 70 FR 51597, Aug. 31, 2005; 73 FR 21538, Apr. 22, 2008; 76 FR 48353, Aug. 8, 2011; 79 FR 71671, Dec. 3, 2014; 84 FR 8442, Mar. 8, 2019.
- (b) 40 CFR 51.123; "Findings and requirements for submission of State implementation plan revisions relating to emissions of oxides of nitrogen pursuant to the Clean Air Interstate Rule;" 70 FR 25319, May 12, 2005, as amended at 71 FR 25301, 25370, Apr. 28, 2006; 71 FR 74793, Dec. 13, 2006; 72 FR 59203, Oct. 19, 2007; 74 FR 56726, Nov. 3, 2009; 76 FR 48353, Aug. 8, 2011; 79 FR 71671, Dec. 3, 2014.
- (c) 40 CFR 52.34; "Action on petitions submitted under section 126 relating to emissions of nitrogen oxides;" 64 FR 28318, May 25, 1999, as amended at 64 FR 33961, June 24, 1999; 65 FR 2042, Jan. 13, 2000; 65 FR 2726, Jan. 18, 2000; 69 FR 31505, June 3, 2004.
- (d) 40 CFR 52.38; "What are the requirements of the Federal Implementation Plans (FIPs) for the Cross-State Air Pollution Rule (CSAPR) relating to emissions of nitrogen oxides?" 76 FR 48354, Aug. 8, 2011, as amended at 76 FR 80774, Dec.

- 27, 2011; 79 FR 71671, Dec. 3, 2014; 81 FR 74586, Oct. 26, 2016; 82 FR 45496, Sept. 29, 2017; 82 FR 46677, Oct. 6, 2017; 82 FR 47934, 47939, Oct. 13, 2017; 82 FR 57366, Dec. 5, 2017; 83 FR 64476, Dec. 17, 2018; 84 FR 8442, Mar. 8, 2019.
- (e) 40 CFR Part 60; "Standards of Performance for New Stationary Sources;" as published in the July 1, 2018 Code of Federal Regulations.
  - (f) 40 CFR Part 60, Appendix A; "Test Methods 1 through 29;" as published in the July 1, 2018 Code of Federal Regulations.
  - (g) 40 CFR Part 72; "Permits Regulation;" as published in the July 1, 2018 Code of Federal Regulations.
  - (h) 40 CFR 72.2; "Definitions;" as published in the July 1, 2018 Code of Federal Regulations.
  - (i) 40 CFR 72.6; "Applicability;" 58 FR 3650, Jan. 11, 1993, as amended at 58 FR 15648, Mar. 23, 1993; 62 FR 55475, Oct. 24, 1997; 64 FR 28588, May 26, 1999; 66 FR 12978, Mar. 1, 2001.
  - (j) 40 CFR Part 75; "Continuous Emission Monitoring;" as published in the July 1, 2018 Code of Federal Regulations.
  - (k) 40 CFR 75.10; "General operating requirements;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26519, May 17, 1995; 64 FR 28590, May 26, 1999; 67 FR 40422, June 12, 2002; 70 FR 28678, May 18, 2005; 76 FR 17308, Mar. 28, 2011.
  - (l) 40 CFR 75.11; "Specific provisions for monitoring SO<sub>2</sub> emissions (SO<sub>2</sub> and flow monitors);" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26520, 26566, May 17, 1995; 61 FR 59157, Nov. 20, 1996; 63 FR 57499, Oct. 27, 1998; 64 FR 28590, May 26, 1999; 67 FR 40423, June 12, 2002, 73 FR 4342, Jan. 24, 2008.
  - (m) 40 CFR 75.17; "Specific provisions for monitoring emissions from common, bypass, and multiple stacks for NO<sub>x</sub> emission rate;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26523, May 17, 1995; 63 FR 57499, Oct. 27, 1998; 64 FR 28592, May 26, 1999; 67 FR 40424, June 12, 2002, 73 FR 4343, Jan. 24, 2008.
  - (n) 40 CFR 75.19; "Optional SO<sub>2</sub>, NO<sub>x</sub>, and CO<sub>2</sub> emissions calculation for low mass emissions (LME) units;" 63 FR 57500, Oct. 27, 1998, as amended at 64 FR 28592, May 26, 1999; 64 FR 37582, July 12, 1999; 67 FR 40424, 40425, June 12, 2002; 67 FR 53504, Aug. 16, 2002, 73 FR 4344, Jan. 24, 2008.
  - (o) 40 CFR 75.20; "Initial certification and recertification procedures;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26524, May 17, 1995; 60 FR 40296, Aug. 8, 1995; 61 FR 59158, Nov. 20, 1996; 63 FR 57506, Oct. 27, 1998; 64 FR 28592, May 26, 1999; 67 FR 40431, June 12, 2002; 70 FR 28678, May 18, 2005, 72 FR 51527, Sept. 7, 2007; 73 FR 4345, Jan. 24, 2008; 76 FR 17308, Mar. 28, 2011.

- (p) 40 CFR 75.21; "Quality assurance and quality control requirements;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26527, 26566, May 17, 1995; 61 FR 25582, May 22, 1996; 61 FR 59159, Nov. 20, 1996; 64 FR 28599, May 26, 1999; 67 FR 40433, June 12, 2002; 67 FR 53505, Aug. 16, 2002; 70 FR 28679, May 18, 2005, 73 FR 4345, Jan. 24, 2008; 76 FR 17308, Mar. 28, 2011.
- (q) 40 CFR 75.34; "Units with add-on emission controls;" 60 FR 26567, May 17, 1995, as amended at 61 FR 59160, Nov. 20, 1996; 64 FR 28604, May 26, 1999; 67 FR 40438, June 12, 2002, 73 FR 4348, Jan. 24, 2008; 76 FR 17312, Mar. 28, 2011.
- (r) 40 CFR 75.61; "Notifications;" 60 FR 26538, May 17, 1995, as amended at 61 FR 25582, May 22, 1996; 61 FR 59162, Nov. 22, 1996; 64 FR 28620, May 26, 1999; 67 FR 40442, 40443, June 12, 2002, 73 FR 4356, Jan. 24, 2008; 76 FR 17316, Mar. 28, 2011.
- (s) 40 CFR 75.62; "Monitoring plan submittals;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26539, May 17, 1995; 64 FR 28621, May 26, 1999; 67 FR 40443, June 12, 2002, 73 FR 4356, Jan. 24, 2008; 76 FR 17316, Mar. 28, 2011.
- (t) 40 CFR 75.64; "Quarterly Reports;" 64 FR 28622, May 26, 1999, as amended at 67 FR 40444, June 12, 2002, 73 FR 4357, Jan. 24, 2008; 76 FR 17317, Mar. 28, 2011.
- (u) 40 CFR 75.66; "Petitions to the Administrator;" 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26540, 26569, May 17, 1995; 61 FR 59162, Nov. 20, 1996; 64 FR 28623, May 26, 1999; 67 FR 40444, June 12, 2002, 73 FR 4358, Jan. 24, 2008.
- (v) 40 CFR 75.70; "NOX mass emissions provisions;" 63 FR 57507, Oct. 27, 1998, as amended at 64 FR 28624, May 26, 1999; 67 FR 40444, June 12, 2002.
- (w) 40 CFR 75.71; "Specific provisions for monitoring NOX and heat input for the purpose of calculating NOX mass emissions;" 63 FR 57508, Oct. 27, 1998, as amended at 64 FR 28624, May 26, 1999; 67 FR 40444, 40445, June 12, 2002; 67 FR 53505, Aug. 16, 2002, 73 FR 4358, Jan. 24, 2008.
- (x) 40 CFR 75.72; "Determination of NOX mass emissions;" 63 FR 57507, Oct. 27, 1998, as amended at 67 FR 40445, June 12, 2002, 73 FR 4358, Jan. 24, 2008.
- (y) 40 CFR 75.74; "Annual and ozone season monitoring and reporting requirements;" 63 FR 57507, Oct. 27, 1998, as amended at 64 FR 28627, May 26, 1999; 67 FR 40446, 40447, June 12, 2002; 67 FR 57274, Sept. 9, 2002, 73 FR 4360, Jan. 24, 2008.
- (z) 40 CFR Part 75, Appendix A; "Specifications and Test Procedures;" as published in the July 1, 2018 Code of Federal Regulations.
- (aa) 40 CFR Part 75, Appendix B; "Quality Assurance and Quality Control

- Procedures;” 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26546, 26571, May 17, 1995; 61 FR 59165, Nov. 20, 1996; 64 FR 28644, May 26, 1999; 64 FR 37582, July 12, 1999; 67 FR 40456, 40457, June 12, 2002; 67 FR 53505, Aug. 16, 2002; 67 FR 57274, Sept. 9, 2002; 70 FR 28693, May 18, 2005, 72 FR 51528, Sept. 7, 2007; 73 FR 4367, Jan. 24, 2008; 76 FR 17321, Mar. 28, 2011.
- (bb) 40 CFR Part 75, Appendix D; “Optional SO<sub>2</sub> Emissions Data Protocol for Gas-Fired and Oil-Fired Units;” 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26548, 26551, May 17, 1995; 61 FR 25585, May 22, 1996; 61 FR 59166, Nov. 20, 1996; 63 FR 57513, Oct. 27, 1998; 64 FR 28652-28663, May 26, 1999; 64 FR 37582, July 12, 1999; 67 FR 40460, 40472, June 12, 2002; 67 FR 53505, Aug. 16, 2002, 73 FR 4369, Jan. 24, 2008; 76 FR 17324, Mar. 28, 2011; 76 FR 20536, Apr. 13, 2011; 77 FR 2460, Jan. 18, 2012.
- (cc) 40 CFR Part 75, Appendix E; “Optional NO<sub>x</sub> Emissions Estimation Protocol for Gas-Fired Peaking Units and Oil-Fired Peaking Units;” 58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26551-26553, May 17, 1995; 64 FR 28665, May 26, 1999; 67 FR 40473, 40474, June 12, 2002; 67 FR 53505, Aug. 16, 2002, 73 FR 4372, Jan. 24, 2008; 76 FR 17325, Mar. 28, 2011.
- (dd) 40 CFR Part 75, Appendix F; “Conversion Procedures;” 58 FR 3701, Jan. 11, 1993; Redesignated and amended at 60 FR 26553-26556, 26571, May 17, 1995; 61 FR 25585, May 22, 1996; 61 FR 59166, Nov. 20, 1996; 63 FR 57513, Oct. 27, 1998; 64 FR 28666-28671, May 26, 1999; 64 FR 37582, July 12, 1999; 67 FR 40474, 40475, June 12, 2002; 67 FR 53505, Aug. 16, 2002, 70 FR 28695, May 18, 2005; 73 FR 4372, Jan. 24, 2008; 76 FR 17325, Mar. 28, 2011; 77 FR 2460, Jan. 18, 2012.
- (ee) 40 CFR Part 75, Subpart D; “Missing Data Substitution Procedures;” as published in the July 1, 2018 Code of Federal Regulations.
- (ff) 40 CFR Part 75, Subpart E; “Alternative Monitoring Systems;” as published in the July 1, 2018 Code of Federal regulations.
- (gg) 40 CFR Part 75, Subpart F; “Recordkeeping Requirements;” as published in the July 1, 2018 Code of Federal Regulations.
- (hh) 40 CFR Part 75, Subpart G; “Reporting Requirements;” as published in the July 1, 2018 Code of Federal Regulations.
- (ii) 40 CFR Part 75, Subpart H; “NO<sub>x</sub> mass emissions provisions;” as published in the July 1, 2018 Code of Federal Regulations.
- (jj) ASTM D6522-11; “Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers;” approved December 1, 2011.
- (kk) Clean Air Act, as contained in 42 USC 7401 to 7671q; "Air Pollution Prevention

and Control; " published January 3, 2017 in Supplement III of the 2012 edition of the United States Code.

- (ll) "Interstate Ozone Transport: Response to Court Decisions on the NOX SIP Call, NOX SIP Call Technical Amendments, and Section 126 Rules;" 69 FR 21603 to 69 FR 21648, April 21, 2004.
- (mm) Section 110 of the Clean Air Act; contained in 42 USC 7410; "State implementation plans for national primary and secondary ambient air quality standards;" published January 3, 2017 in Supplement III of the 2012 Edition of the United States Code.
- (nn) Section 126 of the Clean Air Act; contained in 42 USC 7426; "Interstate pollution abatement;" published January 3, 2017 in Supplement III of the 2012 Edition of the United States Code.
- (oo) Section 502 of the Clean Air Act; contained in 42 USC 7661a; "Permit programs;" published January 3, 2017 in Supplement III of the 2012 Edition of the United States Code.
- (pp) "Technical Amendment to the Finding of Significant Contribution and Rulemaking for Certain States for Purposes of Reducing Regional Transport of Ozone;" 65 FR 11222 to 65 FR 11231, March 2, 2000.
- (qq) Title IV of the Clean Air Act, contained in 42 USC 7651 to 7651o; "Acid deposition control;" published January 3, 2017 in Supplement III of the 2012 Edition of the United States Code.
- (rr) Title V of the Clean Air Act, contained in 42 USC 7661 to 7661f; "Permits;" published January 3, 2017 in Supplement III of the 2012 Edition of the United States Code.
- (ss) USEPA method 1; contained in 40 CFR Part 60, Appendix A; "Sample and velocity traverses for stationary sources;" as published in the July 1, 2018 Code of Federal Regulations.
- (tt) USEPA method 2; contained in 40 CFR Part 60, Appendix A; "Determination of stack gas velocity and volumetric flow rate (Type S pitot tube);" as published in the July 1, 2018 Code of Federal Regulations.
- (uu) USEPA method 3; contained in 40 CFR Part 60, Appendix A; "Gas analysis for the determination of dry molecular weight;" as published in the July 1, 2018 Code of Federal Regulations.
- (vv) USEPA method 4; contained in 40 CFR Part 60, Appendix A;" Determination of moisture content in stack gases;" as published in the July 1, 2018 Code of Federal Regulations.
- (ww) USEPA method 7; contained in 40 CFR Part 60, Appendix A; "Determination of nitrogen oxide emissions from stationary sources;" as published in the July 1,

2018 Code of Federal Regulations.

- (xx) USEPA method 7a; contained in 40 CFR Part 60, Appendix A; "Determination of nitrogen oxide emissions from stationary sources-Ion chromatographic method;" as published in the July 1, 2018 Code of Federal Regulations.
- (yy) USEPA method 7c; contained in 40 CFR Part 60, Appendix A; "Determination of nitrogen oxide emissions from stationary sources-Alkaline-permanganate/colorimetric method;" as published in the July 1, 2018 Code of Federal Regulations.
- (zz) USEPA method 7e; contained in 40 CFR Part 60, Appendix A; "Determination of Nitrogen Oxides Emissions From Stationary Sources (Instrumental Analyzer Procedure);" as published in the July 1, 2018 Code of Federal Regulations.
- (aaa) USEPA method 19; contained in 40 CFR Part 60, Appendix A; "Determination of sulfur dioxide removal efficiency and particulate, sulfur dioxide and nitrogen oxides emission rates" as published in the July 1, 2018 Code of Federal Regulations.

Effective: 8/22/2019

Five Year Review (FYR) Dates: 6/6/2019 and 06/06/2024

CERTIFIED ELECTRONICALLY

Certification

08/12/2019

Date

Promulgated Under: 119.03

Statutory Authority: 3704.03(E)

Rule Amplifies: 3704.03(A), 3704.03(E), 3704.03(D)

Prior Effective Dates: 06/21/1994, 07/18/2002, 05/25/2004, 05/07/2005,  
07/19/2008, 10/18/2010, 03/23/2015, 01/29/2018



### **3745-14-03 Permit requirements.**

#### **(A) General NOx budget program permit requirements.**

- (1) The designated representative of a NOx budget source subject to this rule required to have a federally enforceable permit for the source shall submit an application for an operating permit or an application for a modification to an operating permit in accordance with Chapter 3745-77 of the Administrative Code (for sources subject to the Title V permit program) or an application for a permit-to-install and operate or an application for a modification to a permit-to-install and operate in accordance with Chapter 3745-31 of the Administrative Code (for sources not subject to the Title V permit program) for each subject NOx budget source, in accordance with the deadlines specified in paragraph (B)(1) of this rule.
- (2) The designated representative of a NOx budget source subject to this rule shall submit in a timely manner any supplemental information that the director determines is necessary in order to review a permit application and issue or deny a permit.
- (3) The owners and operators of each NOx budget source required to have a federally enforceable permit shall operate the source in compliance with such permit.
- (4) The owners and operators of a NOx budget source that is not otherwise required to have a federally enforceable permit are not required to submit a permit application, and to have a permit for such NOx budget source.

#### **(B) Submission of permit applications.**

##### **(1) Application time.**

##### **(a) For NOx budget sources required to have a Title V operating permit:**

- (i) For any source, with one or more NOx budget units that commence operation before January 1, 2000, the designated representative shall submit a complete permit application covering such NOx budget units to the director before May 1, 2003.
- (ii) For any source, with one or more NOx budget units that commence operation on or after January 1, 2000, the designated representative shall submit a complete permit application covering such NOx budget unit to the director at least twelve months before the later of May 1, 2004 or the date on which the NOx budget unit commences operation.

##### **(b) For NOx budget sources required to have a non-Title V operating permit:**

- (i) For any source, with one or more NOx budget units that commence operation before January 1, 2000, the designated representative shall submit a complete permit application covering such NOx budget units to the director before May 1, 2003.
- (ii) For any source, with any NOx budget unit that commences operation on or

after January 1, 2000, the designated representative shall submit a complete permit application covering such NOx budget unit to the director at least twelve months before the later of May 1, 2004 or the date on which the NOx budget unit commences operation.

(2) Duty to reapply.

- (a) For a NOx budget source required to have a Title V operating permit, the designated representative shall submit a complete permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with Chapter 3745-77 of the Administrative Code.
- (b) For a NOx budget source required to have a non-Title V operating permit, the designated representative shall submit a complete permit application for the NOx budget source covering the NOx budget units at the source in accordance with rule 3745-31-04 of the Administrative Code.

[Comment: Applications for sources not subject to Chapter 3745-77 of the Administrative Code submitted prior to June 30, 2008 were submitted in accordance with rule 3745-35-02 of the Administrative Code.]

(C) Information requirements for permit applications.

- (1) A complete permit application for a NOx budget source shall include all of the following elements concerning the NOx budget source for which the application is submitted, in a format prescribed by the director:
  - (a) Identification of the NOx budget source, including plant name and the ORIS (office of regulatory information systems) or facility code assigned to the source by the United States energy information administration, or a facility code assigned to the source by the administrator.
  - (b) Identification of each NOx budget unit at the NOx budget source.
  - (c) The standard requirements under paragraphs (D)(3) and (D)(4) of rule 3745-14-01 of the Administrative Code.

(D) Permit contents.

- (1) Each permit (including any draft or proposed permit, if applicable) shall contain, in a format prescribed by the director, all elements required for a complete permit application under paragraph (C) of this rule.
- (2) Each permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of rule 3745-14-01 of the Administrative Code.

(E) Permit revisions.

- (1) For a NOx budget source with a Title V operating permit, the director shall revise the permit, as necessary, in accordance with rule 3745-77-08 of the Administrative

Code.

- (2) For a NO<sub>x</sub> budget source with a non-Title V operating permit, the director shall revise the permit, as necessary, in accordance with rule 3745-31-04 of the Administrative Code.

[Comment: Applications for sources not subject to Chapter 3745-77 of the Administrative Code submitted prior to June 30, 2008 were submitted in accordance with rule 3745-35-02 of the Administrative Code.]

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**3745-14-04 Compliance certification.**

(A) The compliance certification report.

For each control period in which one or more NOx budget units at a source are subject to the NOx budget program, the designated representative of the source shall submit to the director, by November thirtieth of that year, in a format prescribed by the director, a compliance certification report for each unit at the source. The compliance certification report shall include all of the following:

- (1) Identification of each NOx budget unit.
- (2) Certification by the designated representative, based on reasonable inquiry of those persons with primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget program applicable to the unit, including all the following:
  - (a) For NOx budget units subject to monitoring and reporting requirements provided in paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code:
    - (i) Whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with paragraphs (A) to (G) of rule 3745-14-08 of the Administrative Code.
    - (ii) Whether all the NOx emissions from the unit, or a group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with rule 3745-14-08 of the Administrative Code, and if conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made.
  - (b) For NOx budget units with approved alternative monitoring and reporting requirements provided in paragraph (H) of rule 3745-14-08 of the Administrative Code, whether all the NOx emissions from the unit, or a group of units (including the unit) using a common stack, were accounted for in accordance with paragraph (H) of rule 3745-14-08 of the Administrative Code and the terms and specifications specified in the applicable installation or operating permit issued in accordance with Chapter 3745-77 or Chapter 3745-31 of the Administrative Code.
  - (c) Whether the facts that form the basis for certification under rule 3745-14-08 of the Administrative Code of each monitor at the unit or a group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under rule 3745-14-08 of the

Administrative Code, if any, have changed.

- (d) If a change is required to be reported under paragraph (A)(2)(c) of this rule, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

(B) Director's action on compliance certifications.

The director may review and conduct independent audits concerning any compliance certification or any other submission under the NO<sub>x</sub> budget program and make appropriate adjustments of the information in the compliance certifications or other submissions.

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Prior Effective Dates: 06/21/1994, 07/18/2002, 01/29/2018

**3745-14-08 Monitoring and reporting.**

[Comment: For dates and availability of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see paragraph (F) of rule 3745-14-01 of the Administrative Code titled "referenced materials."]

The owners and operators, and to the extent applicable, the designated representative of a NOx budget unit, shall comply with the monitoring and reporting requirements as provided in paragraphs (A) to (G) of this rule, except when complying with approved alternative monitoring and reporting requirements provided in paragraph (H) of this rule.

(A) General requirements.

- (1) The owners and operators, and to the extent applicable, the designated representative of a NOx budget unit, shall comply with the monitoring and reporting requirements as provided in paragraphs (A) to (G) of this rule and in 40 CFR Part 75, Subpart H. For purposes of complying with such requirements, the definitions in paragraph (B) of rule 3745-14-01 of the Administrative Code and in 40 CFR 72.2 shall apply, and the terms "affected unit" and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be replaced by the terms "NOx budget unit" and "continuous emission monitoring system" (or "CEMS"), respectively, as defined in paragraph (B) of rule 3745-14-01 of the Administrative Code.
- (2) The owner or operator of each NOx budget unit shall meet all of the following requirements:
  - (a) Install all monitoring systems required under paragraphs (A) to (G) of this rule for monitoring NOx mass emissions. (This includes all systems required to monitor NOx emission rate, NOx concentration, heat input rate, and stack flow rate, in accordance with 40 CFR 75.71 and 40 CFR 75.72.)
  - (b) Install all monitoring systems for monitoring heat input rate.
  - (c) Successfully complete all certification tests required under paragraph (B) of this rule and meet all other requirements of paragraphs (A) to (G) of this rule and 40 CFR Part 75 applicable to the monitoring systems under paragraphs (A)(2)(a) and (A)(2)(b) of this rule.
  - (d) Record, report and quality assure the data from the monitoring systems required under paragraphs (A)(2)(a) and (A)(2)(b) of this rule.
- (3) The owner or operator shall meet the certification and other requirements of paragraphs (A)(2)(a) to (A)(2)(c) of this rule on or before the following dates. The owner or operator shall record, report and quality-assure the data from the monitoring systems under paragraphs (A)(2)(a) and (A)(2)(b) of this rule on and after the following dates:



- (a) For the owner or operator of a NOx budget unit under paragraph (C)(1) of rule 3745-14-01 of the Administrative Code that commences operation before January 1, 2003, by May 1, 2003.
- (b) For the owner or operator of a NOx budget unit under paragraph (C)(1)(a) of rule 3745-14-01 of the Administrative Code that commences operation on or after January 1, 2003 and that reports on an annual basis under paragraph (E)(4) of this rule, by the later of the following dates:
  - (i) May 1, 2003.
  - (ii) Ninety days after the date on which the unit commences commercial operation.
- (c) For the owner or operator of a NOx budget unit under paragraph (C)(1)(a) of rule 3745-14-01 of the Administrative Code that commences operation on or after January 1, 2003 and that reports on a control period basis under paragraph (E)(4)(b)(i) of this rule, by no later than ninety days after the date on which the unit commences commercial operation, provided that this date is during a control period; (If this date does not occur during a control period, the applicable deadline is May first immediately following this date.)
- (d) For the owner or operator of a NOx budget unit under paragraph (C)(1)(b) of rule 3745-14-01 of the Administrative Code that commences operation on or after January 1, 2003 and that reports on an annual basis under paragraph (E)(4) of this rule, by the later of the following dates:
  - (i) May 1, 2003.
  - (ii) One hundred eighty days after the date on which the unit commences operation.
- (e) For the owner or operator of a NOx budget unit under paragraph (C)(1)(b) of rule 3745-14-01 of the Administrative Code that commences operation on or after January 1, 2003 and that reports on a control period basis under paragraph (E)(4)(b)(ii) of this rule, by one hundred eighty days after the date on which the unit commences operation, provided that this date is during a control period. (If this date does not occur during a control period, the applicable deadline is May first immediately following this date.)
- (f) For the owner or operator of a NOx budget unit that has a new stack or flue for which construction is completed after the applicable deadline under paragraph (A)(3)(a), (A)(3)(b), (A)(3)(c), (A)(3)(d) or (A)(3)(e) of this rule and that reports on an annual basis under paragraph (E)(4) of this rule, by ninety days after the date on which emissions first exit to the atmosphere through the new stack or flue.
- (g) For the owner or operator of a NOx budget unit that has a new stack or flue for which construction is completed after the applicable deadline under paragraph

(A)(3)(a), (A)(3)(b), (A)(3)(c), (A)(3)(d) or (A)(3)(e) of this rule and that reports on a control period basis under paragraph (E)(4)(b)(ii) of this rule, by ninety days after the date on which emissions first exit to the atmosphere through the new stack or flue, provided that this date is during a control period. (If this date does not occur during a control period, the applicable deadline is May first immediately following this date.)

(4) Reporting data prior to initial certification.

The owner or operator of a NO<sub>x</sub> budget unit under paragraph (A)(3)(b), (A)(3)(c), (A)(3)(d) or (A)(3)(e) of this rule shall determine, record and report NO<sub>x</sub> mass emissions, heat input rate, and any other values required to determine NO<sub>x</sub> mass emissions (e.g., NO<sub>x</sub> emission rate and heat input rate, or NO<sub>x</sub> concentration and stack flow rate) in accordance with 40 CFR 75.70(g), from the date and hour that the unit starts operating until the date and hour on which the continuous emission monitoring system, excepted monitoring system under 40 CFR Part 75, Appendix D or 40 CFR Part 75 Appendix E, or excepted monitoring methodology under 40 CFR 75.19, is provisionally certified.

(5) Prohibitions.

- (a) No owner or operator of a NO<sub>x</sub> budget unit shall use any alternative monitoring system, alternative reference method, or any other alternative for the required continuous emission monitoring system without having obtained prior written approval in accordance with paragraph (F) or (H) of this rule.
- (b) No owner or operator of a NO<sub>x</sub> budget unit shall operate the unit so as to discharge, or allow to be discharged, NO<sub>x</sub> emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of paragraphs (A) to (G) of this rule and 40 CFR Part 75 except as provided for in 40 CFR 75.74.
- (c) No owner or operator of a NO<sub>x</sub> budget unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NO<sub>x</sub> mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of paragraphs (A) to (G) of this rule and 40 CFR Part 75 except as provided for in 40 CFR 75.74.
- (d) No owner or operator of a NO<sub>x</sub> budget unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved emission monitoring system, except under any one of the following circumstances:
  - (i) During the period that the unit is covered by an exemption under paragraph (C)(2) of rule 3745-14-01 of the Administrative Code that is in effect.

- (ii) The owner or operator is monitoring emissions from the unit with another certified monitoring system approved by the director, in accordance with the applicable provisions of paragraphs (A) to (G) of this rule and 40 CFR Part 75, for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system.
- (iii) The designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with paragraph (B)(2)(b) of this rule.
- (iv) When operating under approved alternative monitoring and reporting requirements in accordance with paragraph (H) of this rule.

(B) Initial certification and recertification procedures.

- (1) The owner or operator of a NO<sub>x</sub> budget unit that is subject to an acid rain emissions limitation shall comply with the initial certification and recertification procedures of 40 CFR Part 75, except as follows:
  - (a) If, prior to January 1, 1998, the administrator approved a petition under 40 CFR 75.17(a) or 40 CFR 75.17(b) for apportioning the NO<sub>x</sub> emission rate measured in a common stack or a petition under 40 CFR 75.66 for an alternative to a requirement in 40 CFR 75.17, the designated representative shall resubmit the petition, under paragraph (F)(1) of this rule, to the administrator to determine if the approval applies under the NO<sub>x</sub> budget program.
  - (b) For any additional CEMS required under the common stack provisions in 40 CFR 75.72, or for any NO<sub>x</sub> concentration CEMS used under the provisions of 40 CFR 75.71(a)(2), the owner or operator shall meet the requirements of paragraph (B)(2) of this rule.
- (2) The owner or operator of a NO<sub>x</sub> budget unit that is not subject to an acid rain emissions limitation shall comply with the following initial certification and recertification procedures. The owner or operator of such a unit that qualifies to use the low mass emissions excepted monitoring methodology under 40 CFR 75.19 or that qualifies to use an alternative monitoring system under subpart E of 40 CFR Part 75 shall comply with the following procedures, as modified by paragraph (B)(3) or (B)(4) of this rule. The owner or operator of a NO<sub>x</sub> budget unit that is subject to an acid rain emissions limitation and that requires additional CEMS under the common stack provisions in 40 CFR 75.72 or uses a NO<sub>x</sub> concentration CEMS under 40 CFR 75.71(a)(2) shall comply with the following:
  - (a) The owner or operator shall ensure that each monitoring system required by 40 CFR Part 75, Subpart H (which includes the automated data acquisition and handling system) successfully completes all of the initial certification testing required under 40 CFR 75.20 by the applicable deadline in paragraph (A)(3) of this rule. In addition, whenever the owner or operator installs a monitoring system in order to meet the requirements of this chapter in a location where no

such monitoring system was previously installed, initial certification according to 40 CFR 75.20 is required.

- (b) Whenever the owner or operator makes a replacement, modification, or change in a certified monitoring system that may significantly affect the ability of the system to accurately measure or record NO<sub>x</sub> mass emissions or heat input rate or to meet the requirements of 40 CFR 75.21 or Appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify the continuous emissions monitoring system in accordance with 40 CFR 75.20(b). Examples of changes that require recertification include: replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site.
- (c) Certification approval process for initial certifications and recertification.
  - (i) The designated representative shall submit to the administrator, the United States environmental protection agency region 5 office, and the director a written notice of the dates of certification in accordance with paragraph (D) of this rule.
  - (ii) The designated representative shall submit to the administrator, the United States environmental protection agency region 5 office, and director a certification application for each monitoring system required under 40 CFR Part 75, Subpart H. A complete certification application shall include the information specified in. 40 CFR Part 75, Subpart H.
  - (iii) Except for units using the low mass emission excepted methodology under 40 CFR 75.19, the provisional certification date for a monitor shall be determined in accordance with 40 CFR 75.20(a)(3). A provisionally certified monitor may be used under the NO<sub>x</sub> budget program for a period not to exceed one hundred twenty days after receipt by the director of the complete certification application for the monitoring system or component thereof under paragraph (B)(2)(c)(ii) of this rule. Data measured and recorded by the provisionally certified monitoring system or component thereof, in accordance with the requirements of 40 CFR Part 75, shall be considered valid quality-assured data (retroactive to the date and time of provisional certification), provided that the director does not invalidate the provisional certification by issuing a notice of disapproval within one hundred twenty days of receipt of the complete certification application by the director.
  - (iv) The director shall issue a written notice of approval or disapproval of the certification application to the owner or operator within one hundred twenty days of receipt of the complete certification application under paragraph

(B)(2)(c)(ii) of this rule. In the event the director does not issue such a notice within such one hundred twenty-day period, each monitoring system that meets the applicable performance requirements of 40 CFR Part 75 and is included in the certification application shall be deemed certified for use under the NOx budget program.

- (a) If the certification application is complete and shows that each monitoring system meets the applicable performance requirements of 40 CFR Part 75, then the director shall issue a written notice of approval of the certification application within one hundred twenty days of receipt.
- (b) A certification application shall be considered complete when all of the applicable information required to be submitted under paragraph (B)(2)(c)(ii) of this rule has been received by the director. If the certification application is not complete, then the director shall issue a written notice of incompleteness that sets a reasonable date by which the designated representative shall submit the additional information required to complete the certification application. If the designated representative does not comply with the notice of incompleteness by the specified date, then the director may issue a notice of disapproval under paragraph (B)(2)(c)(iv)(c) of this rule. The one hundred twenty-day review period shall not begin prior to receipt of a complete certification application.
- (c) If the certification application shows that any monitoring system or component thereof does not meet the performance requirements of this chapter, or if the certification application is incomplete and the requirement for disapproval under paragraph (B)(2)(c)(iv)(b) of this rule has been met, then the director shall issue a written notice of disapproval of the certification application. Upon issuance of such notice of disapproval, the provisional certification is invalidated by the director and the data measured and recorded by each uncertified monitoring system or component thereof shall not be considered valid quality-assured data beginning with the date and hour of provisional certification [as defined under 40 CFR 75.20(a)(3)]. The owner or operator shall follow the procedures for loss of certification in paragraph (B)(2)(c)(v) of this rule for each monitoring system or component thereof which is disapproved for initial certification.
- (d) The director may issue a notice of disapproval of the certification status of a monitor in accordance with paragraph (C)(2) of this rule.
- (v) If the director issues a notice of disapproval of a certification application under paragraph (B)(2)(c)(iv)(c) of this rule or a notice of disapproval of certification status under paragraph (B)(2)(c)(iv)(d) of this rule, the following shall occur:

- (a) The owner or operator shall substitute the following values, for each hour of unit operation during the period of invalid data specified under 40 CFR 75.20(a)(4)(iii), 40 CFR 75.20(b)(5), 40 CFR 75.20(h)(4) or 40 CFR 75.21(e) and continuing until the date and hour specified under 40 CFR 75.20(a)(5)(i):
- (i) For units that the owner or operator intends to monitor or monitors for NO<sub>x</sub> emission rate and heat input or intends to determine or determines NO<sub>x</sub> mass emissions using the low mass emission excepted methodology under 40 CFR 75.19, the maximum potential NO<sub>x</sub> emission rate and the maximum potential hourly heat input of the unit.
  - (ii) For units that the owner or operator intends to monitor or monitors for NO<sub>x</sub> mass emissions using a NO<sub>x</sub> pollutant concentration monitor and a flow monitor, the maximum potential concentration of NO<sub>x</sub> and the maximum potential flow rate of the unit under Section 2 of Appendix A of 40 CFR Part 75.
- (b) The designated representative shall submit a notification of certification retest dates and a new certification application in accordance with paragraphs (B)(2)(c)(i) and (B)(2)(c)(ii) of this rule.
- (c) The owner or operator shall repeat all certification tests or other requirements that were failed by the monitoring system, as indicated in the director's notice of disapproval, no later than thirty unit operating days after the date of issuance of the notice of disapproval.
- (3) The owner or operator of a gas fired or oil fired unit using the low mass emissions excepted methodology under 40 CFR 75.19 and not subject to an acid rain emission limitation shall meet the applicable general operating requirements of 40 CFR 75.10 and the applicable requirements of 40 CFR 75.19. The owner or operator of such a unit shall also meet the applicable certification and recertification procedures of paragraph (B)(2) of this rule, except that the excepted methodology shall be deemed provisionally certified for use under the NO<sub>x</sub> budget program as of the following dates:
- (a) For a unit that does not have monitoring equipment initially certified or recertified for the NO<sub>x</sub> budget program as of the date on which the designated representative submits the certification application under 40 CFR 75.19 for the unit, starting on the date of such submissions until the completion of the period for the director's review.
  - (b) For a unit that has monitoring equipment initially certified or recertified for the NO<sub>x</sub> budget program as of the date on which the designated representative submits the certification application under 40 CFR 75.19 for the unit and that reports data on an annual basis under paragraph (E)(4) of this rule, starting

January first of the year after the year of such submission until the completion of the period for the director' review.

- (c) For a unit that has monitoring equipment initially certified or recertified for the NOx budget program as of the date on which the designated representative submits the certification application under 40 CFR 75.19 for the unit and that reports on a control period basis under paragraph (E)(4) of this rule, starting May first of the control period after the year of such submission until the completion of the period for the director's review.
  - (4) The designated representative of each unit not subject to an acid rain emissions limitation for which the owner or operator intends to use an alternative monitoring system approved by the administrator under subpart E of 40 CFR Part 75, shall comply with the applicable certification procedures in paragraph (B)(2) of this rule before using the system under the NOx budget program. The designated representative shall also comply with the applicable recertification procedures in paragraph (B)(2)(c) of this rule. The requirements of 40 CFR 75.20(f) shall apply to such alternative monitoring system.
- (C) Out of control periods.
- (1) Whenever any monitoring system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in 40 CFR Part 75, Appendix D, 40 CFR Part 75, Appendix E, or 40 CFR Part 75, Subpart D.
  - (2) Whenever both an audit of a monitoring system and a review of the initial certification or recertification application reveal that any system or component should not have been certified or recertified because it did not meet a particular performance specification or other requirement under paragraph (B) of this rule or the applicable provisions of 40 CFR Part 75, both at the time of the initial certification or recertification application submission and at the time of the audit, the director shall issue a notice of disapproval of the certification status of such system or component. For the purposes of this paragraph, an audit shall be either a field audit or an audit of any information submitted to the director or the administrator. By issuing the notice of disapproval, the director revokes prospectively the certification status of the system or component. The data measured and recorded by the system or component shall not be considered valid quality-assured data from the date of issuance of the notification of the revoked certification status until the date and time that the owner or operator completes subsequently approved initial certification or recertification tests for the system or component.
- (D) The designated representative for a NOx budget unit shall submit written notice of certification and recertification test dates to the director and the administrator in accordance with 40 CFR 75.61, except that if a unit is not subject to an acid rain emission limitation, notification is only required to be sent to the director.
- (E) Record keeping and reporting.

(1) General provisions.

- (a) The designated representative shall comply with all record keeping and reporting requirements in paragraphs (A) to (G) of this rule.
- (b) If the designated representative for a NO<sub>x</sub> budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under 40 CFR Part 75, Subpart F or 40 CFR Part 75, Subpart G and which includes data and information required under paragraphs (A) to (G) of this rule or 40 CFR Part 75, Subpart H is not the same person as the designated representative or the alternative designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternative designated representative.

(2) Monitoring plans.

- (a) The owner or operator of a unit subject to an acid rain emissions limitation shall comply with the requirements of 40 CFR 75.62, except that the monitoring plan shall also include all of the information required by 40 CFR Part 75, Subpart H.
- (b) The owner or operator of a unit that is not subject to an acid rain emissions limitation shall comply with the requirements of 40 CFR 75.62, except that the monitoring plan is only required to include the information required by 40 CFR Part 75, Subpart H.

(3) The designated representative shall submit an application to the administrator, United States environmental protection agency region 5 office, and the director within forty-five days after completing all initial certification or recertification tests required under paragraph (B) of this rule including the information required under 40 CFR Part 75, Subpart H.

(4) The designated representative shall submit quarterly reports as follows:

- (a) If a unit is subject to an acid rain emission limitation or if the owner or operator of the NO<sub>x</sub> budget unit chooses to meet the annual reporting requirements of paragraphs (A) to (G) of this rule, the designated representative shall submit a quarterly report for each calendar quarter beginning with the following:
  - (i) For a unit that commences operation on or before May 1, 2003, the earlier of the calendar quarter that includes the date of initial provisional certification under paragraph (B)(2)(c)(iii) or (B)(3) of this rule or, if the certification tests are not completed by May 1, 2003, the calendar quarter covering May 1, 2003 through June 30, 2003. Data shall be recorded and reported from the earlier of the date and hour corresponding to the date and hour of provisional certification or the first hour on May 1, 2003.
  - (ii) For a unit that commences operation after May 1, 2003, the calendar quarter in which the unit commences operation. Data shall be reported from the date and hour corresponding to when the unit commenced operation.



- (b) If a NO<sub>x</sub> budget unit is not subject to an acid rain emission limitation, then the designated representative shall do either of the following:
- (i) Meet all of the requirements of 40 CFR Part 75 related to monitoring and reporting NO<sub>x</sub> mass emissions during the entire year and meet the reporting deadlines specified in paragraph (E)(4)(a) of this rule.
  - (ii) Submit quarterly reports covering the period May first through September thirtieth of each year and including the data described in 40 CFR 75.74(c)(6). The designated representative shall submit such quarterly reports, beginning with:
    - (a) For a unit that commences operation on or before May 1, 2003 and that is not subject to paragraph (E)(4)(b)(i) of this rule, the calendar quarter covering May 1, 2003 through June 30, 2003. Data shall be recorded and reported from the earlier of the date and hour corresponding to the date and hour of initial certification under paragraph (B)(2)(c)(iii) or (B)(3) of this rule or the first hour of May 1, 2003.
    - (b) For a unit that commences operation after May 1, 2003 and during a control period, the calendar quarter in which the unit commences operation. Data shall be reported from the date and hour corresponding to when the unit commences operation.
    - (c) For a unit that commences operation after May 1, 2003 and not during a control period, the calendar quarter covering the first control period after the unit commences operation. Data shall be recorded and reported from the earlier of the date and hour corresponding to the date and hour of initial provisional certification under paragraph (B)(2)(c)(iii) or (B)(3) of this rule or the first hour of May first of the first control period after the unit commences operation.
- (c) The designated representative shall submit each quarterly report to the administrator within thirty days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR Part 75, Subpart H and 40 CFR 75.64, as follows:
- (i) For units subject to an acid rain emissions limitation, quarterly reports shall include all of the data and information required in 40 CFR Part 75, Subpart H for each NO<sub>x</sub> budget unit (or group of units using a common stack) and the data and information required in 40 CFR Part 75, Subpart G.
  - (ii) For units not subject to an acid rain emissions limitation, quarterly reports are only required to include all of the data and information required in 40 CFR Part 75, Subpart H for each NO<sub>x</sub> budget unit (or group of units using a common stack).
- (d) The designated representative shall submit to the administrator a compliance certification in support of each quarterly report based on reasonable inquiry of

those persons with primary responsibility for ensuring that all of the units' emissions are correctly and fully monitored. The compliance certification shall state the following:

- (i) The monitoring data submitted were recorded in accordance with the applicable requirements of paragraphs (A) to (G) of this rule and 40 CFR Part 75, including the quality assurance procedures and specifications.
- (ii) For a unit with add-on NO<sub>x</sub> emission controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under 40 CFR Part 75, Appendix B and the substitute values do not systematically underestimate NO<sub>x</sub> emissions.
- (iii) For a unit that is reporting on a control period basis under paragraph (E)(4)(d)(ii) of this rule, the NO<sub>x</sub> emission rate and NO<sub>x</sub> concentration values substituted for missing data under 40 CFR Part 75, Subpart D are calculated using only values from a control period and do not systematically underestimate NO<sub>x</sub> emissions.

(F) Petitions.

- (1) The designated representative of a NO<sub>x</sub> budget unit that is subject to an acid rain emission limitation may submit a petition under 40 CFR 75.66 to the administrator requesting approval to apply an alternative to any requirement of paragraphs (A) to (G) of this rule, as follows:
  - (a) Application of an alternative to any requirement of paragraphs (A) to (G) of this rule shall be in accordance with paragraphs (A) to (G) of this rule only to the extent that the petition is approved by the administrator in consultation with the director.
  - (b) Notwithstanding paragraph (F)(1)(a) of this rule, if the petition requests approval to apply an alternative to a requirement concerning any additional CEMS required under the common stack provisions of 40 CFR 75.72, the petition shall be governed by paragraph (F)(2) of this rule.
- (2) The designated representative of a NO<sub>x</sub> budget unit that is not subject to an acid rain emission limitation may submit a petition under 40 CFR 75.66 to the director and the administrator requesting approval to apply an alternative to any requirement of paragraphs (A) to (G) of this rule, as follows:
  - (a) The designated representative of a NO<sub>x</sub> budget unit that is subject to an acid rain emission limitation may submit a petition under 40 CFR 75.66 to the director and the administrator requesting approval to apply an alternative to a requirement concerning any additional CEMS required under the common stack provisions of 40 CFR 75.72 or a NO<sub>x</sub> concentration CEMS used under 40 CFR 75.71(a)(2).

- (b) Application of an alternative to any requirement of paragraphs (A) to (G) of this rule shall be in accordance with paragraphs (A) to (G) of this rule only to the extent the petition under paragraph (F)(2) of this rule is approved by both the director and the administrator.

(G) Additional requirements to provide heat input data.

The owner or operator of a NO<sub>x</sub> budget unit that monitors and reports NO<sub>x</sub> mass emissions using a NO<sub>x</sub> concentration system and a flow system shall also monitor and report heat input rate at the unit level using the procedures set forth in 40 CFR Part 75.

(H) Alternative monitoring and reporting.

- (1) Upon request, the director may approve alternative monitoring and reporting requirements in lieu of the requirements of paragraphs (A) to (G) of this rule. Alternative monitoring and reporting requirements shall be based on the best available data, provide for reporting the nature and amount of emissions of a NO<sub>x</sub> budget unit, and shall be sufficient to determine compliance with this chapter. Alternative monitoring and reporting shall include either monitoring and reporting in accordance with 40 CFR Part 60, or monitoring of heat input and fuel use for each control period and an approved emission factor for current operating conditions.
- (2) The designated representative of a NO<sub>x</sub> budget unit requesting alternative monitoring and reporting shall submit an application for an installation permit or an application for modification of an installation permit in accordance with Chapter 3745-31 of the Administrative Code, or shall submit an application for an operating permit or an application for a modification to an operating permit in accordance with the following:
  - (a) For sources subject to the Title V program, Chapter 3745-77 of the Administrative Code.
  - (b) For sources not subject to the Title V program, Chapter 3745-31 of the Administrative Code.
- (3) The application for an installation or operating permit requesting alternative monitoring and reporting shall include all of the following:
  - (a) Whether 40 CFR Part 60 monitoring and reporting is requested as the alternative or whether monitoring of heat input and fuel use and an approved emission factor is requested as the alternative.
  - (b) If monitoring of heat input and fuel use and an approved emission factor is requested as the alternative, an emission factor analysis evaluating potential emission factors in pounds of NO<sub>x</sub> emitted per unit of fuel and heat input, for each fuel type, based on each of the following:
    - (i) U.S. EPA's "AP-42 Compilation of Emission Factors".

- (ii) A valid stack test using USEPA method 3, USEPA method 7 and USEPA method 19 conducted within the previous two years from the date of the application submittal, if available.
  - (iii) An analysis of continuous emission monitoring data representative of current operating conditions.
  - (iv) An analysis of other relevant data or emission factors, if available (for example, an emission factor used for compliance with an existing NOx emission limitation for the NOx budget unit, or an emission factor developed for similar sources).
- (c) A description of the proposed monitoring procedures, including how monitoring data will be obtained, recorded and quality assured, and how NOx emissions will be accounted for during periods of missing or inaccurate data, such as periods of maintenance or disruption.
- (d) If 40 CFR Part 60 monitoring and reporting is requested, how the amount of NOx emissions in tons per control period will be determined from the 40 CFR Part 60 NOx emission rate data.
- (e) If alternative monitoring and reporting is requested to begin within a control period, a description of the transition process which ensures there will not be gaps in data monitoring and reporting.
- (4) Prior to the use of alternative monitoring and reporting, applicable terms and conditions, including 40 CFR Part 60 monitoring and reporting requirements, or an approved emission factor and monitoring procedures for fuel use and heat input, shall be specified in an installation permit issued in accordance with Chapter 3745-31 of the Administrative Code or an operating permit issued in accordance with the following:
- (a) For sources subject to the Title V program, Chapter 3745-77 of the Administrative Code.
  - (b) For sources not subject to the Title V program, Chapter 3745-31 of the Administrative Code.
- (5) When approved by the director, the owners and operators, and to the extent applicable, the designated representative of a NOx budget unit, shall comply with the monitoring and reporting requirements as provided during the control period.
- (6) The owners and operators, and to the extent applicable, the designated representative, of a NOx budget unit approved for alternative monitoring and reporting under paragraph (H) of this rule shall meet all of the following:
- (a) Comply with all terms and conditions specified in the installation or operating permit.
  - (b) Install all monitoring systems required for alternative monitoring.

- (c) Record and report the data from the monitoring systems required under paragraph (H) of this rule in accordance with the terms and conditions in the installation or operating permit. By April fifteenth of each year, report actual NO<sub>x</sub> emissions in tons, as determined using the approved alternative monitoring procedures, for the previous control period in the fee emissions report required in accordance with rule 3745-78-02 of the Administrative Code.
- (d) If alternative monitoring is based on an approved emission factor, conduct stack tests to demonstrate the approved emission factor continues to be representative of current operating conditions. If the emissions factor analysis submitted in accordance with paragraph (H)(3)(b) of this rule did not include a stack test, an initial stack test shall be conducted within ninety days of permit issuance. Ongoing stack tests shall be conducted at least once every five years from the date of the previous stack test for units still in operation. In the event a unit not in operation at the time a stack test was required under this paragraph resumes operation, a stack test shall be conducted within ninety days of resuming operation. Stack tests shall be conducted in accordance with a test method specified in the installation or operating permit and reported to the director within thirty days of the test. If a stack test indicates an emission factor may require adjustment, the director may require submission of an application in accordance with paragraph (H)(2) of this rule. The designated representative shall submit an application in accordance with paragraph (H) of this rule within sixty days of notification by the director.
- (e) Maintain records in accordance with the terms and conditions in the installation or operating permit for a period of five years from the date the records are created. These records shall be made available to the director or his representative upon request.

(7) Prohibitions.

- (a) No owner or operator of a NO<sub>x</sub> budget unit shall operate the unit so as to discharge, or allow to be discharged, NO<sub>x</sub> emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of paragraphs (H) of this rule.
- (b) No owner or operator of a NO<sub>x</sub> budget unit shall retire or permanently discontinue use of the monitoring system, or any component thereof, except under any one of the following circumstances:
  - (i) During the period that the unit is covered by an exemption under paragraph (C)(2) of rule 3745-14-01 of the Administrative Code that is in effect.
  - (ii) When discontinuing use of alternative monitoring and reporting in accordance with paragraph (H) of this rule and resuming compliance with monitoring and reporting requirements in accordance with paragraphs (A) to (G) of this rule. This may only occur outside of the control period.

- (8) This chapter does not authorize exceptions or alternatives to any 40 CFR Part 75 monitoring requirements that might apply to a source under a different legal authority.
- (9) In accordance with the requirements of 40 CFR 51.122 (c)(1)(i), Ohio EPA will report annually to the administrator all NO<sub>x</sub> emissions reported under paragraph (H) of this rule.

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Certification

08/12/2019

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Prior Effective Dates: 07/18/2002, 07/19/2008, 01/29/2018

3745-14-11

**Portland cement kilns.**

[For dates and availability of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see paragraph (F) of rule 3745-14-01 of the Administrative Code titled "referenced materials".]

(A) The requirements of this rule ~~shall~~ apply only to following types of portland cement kilns with process rates of at least that indicated as follows:

- (1) For long dry kilns, twelve tons per hour.
- (2) For long wet kilns, ten tons per hour.
- (3) For preheater kilns, sixteen tons per hour.
- (4) For precalciner and preheater/precalciner kilns, twenty-two tons per hour.

(B) After April 30, 2004, an owner or operator of any portland cement kiln subject to this rule shall not operate the kiln during May first through September thirtieth unless the kiln has installed and operates during May first through September thirtieth with low-NO<sub>x</sub> burners, mid-kiln system 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 system firing.

(C) Reporting, monitoring and record keeping requirements.

(1) Any owner or operator subject to the requirements of paragraph (B) of this rule shall comply with the following requirements:

(a) By May 1, 2004, submit to the director and administrator the identification number and type of each unit subject to the rule, the name and address of the plant where the unit is located, and the name and telephone number of the person responsible for demonstrating the compliance of the unit with this rule.

(b) Submit a report documenting for each unit the total NO<sub>x</sub> emissions from May first through September thirtieth of each year to the director and administrator by October thirty-first of each year, beginning in 2004.

(2) Any owner or operator of a unit subject to paragraph (B) of this rule shall complete an initial performance test and subsequent annual testing consistent with the requirements of Methods 1, 2, 3 and 4 of 40 CFR Part 60, Appendix A and Method 7, 7A, 7C, 7D, or 7E of 40 CFR Part 60.



- (3) Any owner or operator of a unit subject to paragraph (B) of this rule shall produce and maintain records which ~~shall~~ include, but are not limited to the following:
- (a) The emissions, in pounds of NO<sub>x</sub> per ton of clinker produced from each affected cement kiln.
  - (b) 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.
  - (c) The results of any performance testing.
  - (d) Daily cement kiln production records.
- (4) All records required to be produced or maintained shall be retained on site for a minimum of two years and be made available to the director or administrator upon request.

~~(D) The requirements of this rule shall not apply to the following periods of operation:~~

- ~~(1) Start-up and shutdown periods and periods of malfunction, not to exceed thirty-six consecutive hours.~~
- ~~(2) Regularly scheduled maintenance activities.~~

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**3745-14-12 Stationary internal combustion engines.**

[Comment: For dates and availability of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see paragraph (F) of rule 3745-14-01 of the Administrative Code titled "referenced materials".]

(A) The requirements of this rule apply to the owner or operator of any large NO<sub>x</sub> SIP call engine.

(B) Compliance plan.

(1) After May 1, 2007, an owner or operator of a large NO<sub>x</sub> SIP call engine shall not operate the engine in the 2007 control period or any subsequent year's control period unless the owner or operator complies with the requirements of a compliance plan which meets the following provisions:

(a) The compliance plan shall be approved by the director.

(b) The compliance plan shall demonstrate enforceable emission reductions from one or more stationary internal combustion engines equal to or greater than the facility seasonal NO<sub>x</sub> 2007 tonnage reduction.

(c) The compliance plan may cover some or all engines at an individual facility or at several facilities or at all facilities in the state of Ohio that are in control of the same owner or operator.

(d) The compliance plan shall be submitted to the director by May 1, 2006.

(e) The compliance plan may include credit for decreases in NO<sub>x</sub> emissions from large NO<sub>x</sub> SIP call engines in the state of Ohio due to NO<sub>x</sub> control equipment. Credit may also be included for decreases in NO<sub>x</sub> emissions from other engines in the state of Ohio due to NO<sub>x</sub> control equipment not reflected in the 2007 base NO<sub>x</sub> emissions in the NO<sub>x</sub> SIP call engine inventory.

(f) The compliance plan shall 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 control period hours of operation for each engine and supporting documentation.

(iii) A description of the NO<sub>x</sub> emissions control installed, or to be installed, on each engine and documentation to support the projected NO<sub>x</sub> emission rates.

(iv) The past and projected NO<sub>x</sub> emission rates for each affected engine in grams per brake horsepower-hour.

(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's or operator's facility seasonal NO<sub>x</sub> 2007 tonnage reduction, based on the difference between the past NO<sub>x</sub> emission rate and the projected NO<sub>x</sub> emission rate multiplied by the projected operating hours for each affected engine, and taking into account any credit under paragraph (B)(1)(e) of this rule.

- (vi) Provisions for monitoring, reporting and recordkeeping for each affected engine.
- (2) The projected NO<sub>x</sub> emission rate in grams per brake horsepower-hour for each affected engine shall be included in a federally enforceable permit.
- (C) Any owner or operator subject to the requirements of paragraph (B) of this rule shall comply with the following:
- (1) Monitoring requirements.
    - (a) 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 paragraph (B)(2) of this rule.
    - (b) 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 paragraph (B)(2) of this rule. Such periodic monitoring may include one of the following:
      - (i) Performance tests consistent with the requirements of 40 CFR Part 60, Appendix A, or portable monitors using ASTM D6522.
      - (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 paragraph (B)(2) of this rule.
      - (iii) A predictive emissions measurement system that relies on automated data collection from instruments.
      - (iv) A continuous emission monitoring system that complies with 40 CFR Part 60 or 40 CFR Part 75.
  - (2) Record keeping requirements.
    - (a) Maintain all records necessary to demonstrate compliance with the requirements of this rule for a period of two calendar years at the plant at which the subject engine is located. The records shall be made available to the director and administrator upon request.
    - (b) 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 rule.
  - (ii) Calendar date of record.
  - (iii) The number of hours the unit is operated during each control period compared to the projected operating hours.
  - (iv) Type and quantity of fuel used.
  - (v) The results of all compliance tests.
- (3) Reporting requirements.

Any owner or operator subject to the requirements of this rule shall submit results of all compliance tests to the director.

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