

“Rated power output” means the maximum electrical or equivalent mechanical power output stated on the nameplate affixed to an engine or the International Standard organization (ISO) rated electrical or equivalent mechanical power stated on the nameplate affixed to a turbine by the manufacturer.

“Rate of production” means the quantity per unit time of any process intermediate, product, by-product, or waste generated through the use of any equipment, source operation, or a process.

“Raw material” means any input to equipment, control apparatus, or a process, including fuels, but excluding heat and other forms of energy. Such inputs may include mixtures, composites, compounds and elemental substances.

“Reconfiguration” means a change in the setup of equipment or control apparatus, or both, to an alternate configuration. This term also includes reorientation or reconnection into an alternate pattern of equipment or control apparatus, or both. This term does not include a change in the location of equipment or control apparatus from that specified in the preconstruction permit.

“Reconstruct” or “reconstruction” means the replacement of part(s) of equipment included in a process unit, or the replacement of part(s) of control apparatus, if the fixed capital cost of replacing the part(s) exceeds both of the following amounts:

1. Fifty percent of the fixed capital cost that would be required to construct a comparable new process unit; or, if it is part(s) of control apparatus that is being replaced, 50 percent of the fixed capital cost that would be required to construct comparable new control apparatus; and
2. \$80,000, in 1995 dollars, adjusted by the Consumer Price Index (CPI).

“Registrant” means a person who submits a registration form.

“Registration” means the process of registering with the Department on a registration form, the following:

1. One or more sources under a general permit, in accordance with N.J.A.C. 7:27-8.8; or
2. One or more used oil space heaters that burn on-specification used oil whose total combined gross heat input does not exceed 500,000 British Thermal Units per hour, in accordance with N.J.A.C. 7:27-20.3(a).

“Registration form” means the online or paper form the Department requires a registrant to submit for registration.

“Renewal” means the process of renewing an operating certificate or a registration.

“Renewal application stub” means the part of the renewal invoice that a permittee or registrant detaches and submits

with the renewal fee payment to renew an operating certificate or a registration.

“Repair or maintenance” means upkeep of existing equipment or control apparatus, including the replacement of parts, but does not include the reconstruction of equipment or control apparatus.

“Research” means investigations directed toward the discovery of facts, scientific principles, reactions, or substances.

“Risk assessment” means a procedure for characterizing the probability that potential exposure to air contaminants will result in adverse effects on human health, or welfare or the environment.

“Sampling” means the selective collection of a quantity of raw materials, process intermediates, products, by-products or wastes.

“Sanitary landfill” means a solid waste facility, at which solid waste is deposited on or into the land as fill for the purpose of permanent disposal or storage for a period of time exceeding six months, except that it does not include any waste facility approved for disposal of hazardous waste.

“Seven-day-notice change” means a change made to a permit and certificate under N.J.A.C. 7:27-8.20, Seven-day-notice changes.

“Significant net emission increase” means an emission increase of any air contaminant determined pursuant to the procedures set forth in N.J.A.C. 7:27-18.7 to be a significant net emission increase.

“Significant source operation” or “significant source” means a source that is classified as a significant source pursuant to N.J.A.C. 7:27-8.2(c) and that is not exempted from being a significant source pursuant to N.J.A.C. 7:27-8.2(d) or (e).

“Solid particles” means particles of rigid shape and definite volume.

“Solid waste facility” means any system, site, equipment, or building which is utilized for the storage, collection, processing, transfer, transportation, separation, recycling, recovery, or disposal of solid waste.

“Source emission testing” means the testing of a discharge of any air contaminant from equipment, control apparatus or source operation through any stack or chimney.

“Source operation” or “source” means any process, or any identifiable part thereof, that emits or can reasonably be anticipated to emit any air contaminant either directly or indirectly into the outdoor atmosphere. A source operation may include one or more pieces of equipment or control apparatus.

“Space heater” is as defined at N.J.A.C. 7:27-20.1.

“Stack or chimney” means a flue, conduit or opening designed, constructed, or utilized for the purpose of emitting any air contaminant into the outdoor atmosphere.

“Standard conditions” means 70 degrees Fahrenheit (21.1 degrees centigrade) and one atmosphere pressure (14.7 pounds per square inch absolute or 760.0 millimeters of mercury).

“State implementation plan” or “SIP” means a plan or portion thereof, prepared by a state and approved by the EPA pursuant to 42 U.S.C. § 7410, which includes enforceable emission limitations or other control measures, means or techniques, and provides for implementation, maintenance, and enforcement of one or more NAAQS.

“Stationary storage tank” means any immobile storage tank. This term also includes any delivery vessel, excluding a sealed vessel, such as a railroad tank car or similar container, used for storing VOC remaining on site at a facility for more than 30 days.

“Storage tank” means any tank, reservoir, or vessel which is a container for liquids or gases, wherein:

1. No manufacturing process, or part thereof, other than filling or emptying takes place; and
2. The only treatment carried out is that necessary to prevent change from occurring in the physical condition or the chemical properties of the liquids or gases deposited into the container. Such treatment may include recirculating, agitating, maintaining the temperature of the stored liquids or gases, or replacing air in the vapor space above the stored liquids or gases with an inert gas in order to inhibit the occurrence of chemical reaction.

“Stratospheric ozone depleting substance” means any Class I substance or any Class II substance.

“Surface cleaner” means a device to remove unwanted foreign matter from the surfaces of materials by using VOC or HAP solvents in liquid or vapor state.

“Surface coating operation” means the application of one or more surface coating formulations uniformly across a surface, using one or more coating applicators, together with any associated drying or curing areas. A single surface coating operation ends after drying or curing and before other surface coating formulations are applied. For any web coating line, this term means an entire coating application system, including any associated drying ovens or areas between the supply roll and take-up roll, that is used to apply surface coating formulations onto a continuous strip or web. This term does not include any graphic arts operation.

“Surface impoundment” or “impoundment” means a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumu-

lation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

“Surface stripping” means the removal of paints and other coatings from the surface of materials.

“Technology Acceptance and Reciprocity Partnership” or “TARP” means a workgroup of the Environmental Council of States (ECOS). The workgroup was formed to promote the reciprocal evaluation, acceptance, and approval of innovative environmental technologies.

“Temporary facility” means a facility which, by design, is intended to be operated at more than one location and which is relocated more than once in five years.

“Temporary operating certificate” means an operating certificate with a term shorter than five years, issued under N.J.A.C. 7:27-8.7(d).

“Testing” means a procedure for the determination of the kind and amount of one or more air contaminants, potential air contaminants or air contaminant precursors present. This term includes, but is not limited to, sampling, sample custody, analysis, and reporting of findings.

“Test run” or “run” means a single integrated measurement or procedure used for the purpose of collecting a sample of any air contaminant emitted during a specified time interval.

“Total fixed capital cost” means the total sum, in dollars, paid to purchase and install equipment or control apparatus, including any design costs incurred. This term does not include any costs of operation or startup. This term also does not include the costs of dismantling any equipment or control apparatus being replaced, site preparation, placement of any footings or foundation upon which the structural elements of the equipment or control apparatus rest. This term also does not include any charges for legal services, governmental taxes or fees, or any patent or licensing costs.

“Total suspended particulate matter” or “TSP” means any air contaminant dispersed in the outdoor atmosphere which exists as solid particles or liquid particles at standard conditions and is measured in accordance with N.J.A.C. 7:27B-1; 40 CFR 60, Appendix A, Methods 5 through 5H; or another method approved by the Department and EPA.

“Use” means to engage in any form or manner of operation of equipment or control apparatus subsequent to the installation of such equipment or control apparatus. This term includes any trial operation.

“Used oil” is as defined at N.J.A.C. 7:27-20.1.

“Volatile organic compound” or “VOC” means any compound of carbon (other than carbon monoxide, carbon dioxide, carbonic acid, metallic carbonates, metallic carbides, and ammonium carbonate) which participates in atmospheric

photochemical reactions. For the purpose of determining compliance with emission limits or content standards, VOC shall be measured by test methods, or which have been approved in writing by the Department. This term excludes those compounds which EPA has excluded from its definition of VOC in the list set forth at 40 CFR 51.100(s)(1), which is incorporated by reference herein, together with all amendments and supplements. As of April 9, 1998, the compounds and classes of perfluorocarbons excluded from EPA's definition of VOC at 40 CFR 51.100(s) are set forth below:

methane

ethane

methylene chloride (dichloromethane)

1,1,1-trichloroethane (methyl chloroform)

1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)

trichlorofluoromethane (CFC-11)

dichlorodifluoromethane (CFC-12)

chlorodifluoromethane (HCFC-22)

trifluoromethane (HFC-23)

1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)

chloropentafluoroethane (CFC-115)

2,2-dichloro-1,1,1-trifluoroethane (HCFC-123)

1,1,1,2-tetrafluoroethane (HFC-134a)

1,1-dichloro-1-fluoroethane (HCFC-141b)

1-chloro-1,1-difluoroethane (HCFC-142b)

2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)

pentafluoroethane (HFC-125)

1,1,2,2-tetrafluoroethane (HFC-134)

1,1,1-trifluoroethane (HFC-143a)

1,1-difluoroethane (HFC-152a)

parachlorobenzotrifluoride (PCBTF)

cyclic, branched, or linear completely methylated siloxanes

acetone

perchloroethylene (tetrachloroethylene)

3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)

1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)

1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee)

difluoromethane (HFC-32)

ethylfluoride (HFC-161)

1,1,1,3,3,3-hexafluoropropane (HFC-236fa)

1,1,2,2,3-pentafluoropropane (HFC-245ca)

1,1,2,3,3-pentafluoropropane (HFC-245ea)

1,1,1,2,3-pentafluoropropane (HFC-245eb)

1,1,1,3,3-pentafluoropropane (HFC-245fa)

1,1,1,2,3,3-hexafluoropropane (HFC-236ea)

1,1,1,3,3-pentafluorobutane (HFC-365mfc)

chlorofluoromethane (HCFC-31)

1-chloro-1-fluoroethane (HCFC-151a)

1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)

1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane;
(C₄F₉OCH₃)

2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF₃)₂ CFCF₂OCH₃)

1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane (C₄F₉OC₂H₅)

2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF₃)₂CFCF₂ OC₂H₅)

methyl acetate

perfluorocarbon compounds which fall into these classes:

cyclic, branched, or linear, completely fluorinated alkanes

cyclic, branched, or linear, completely fluorinated ethers with no unsaturations

cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations

sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine

If there is any conflict between the list at 40 CFR 51.100(s)(1) and the list set forth above, the list at 40 CFR 51.100(s)(1) shall control.

Amended by R.1985 d.96, effective March 4, 1985 (operative April 5, 1985).

See: 16 N.J.R. 167(a), 17 N.J.R. 587(a).

Substantially amended.

Amended by R.1991 d.109, effective March 4, 1991 (operative March 31, 1991).

See: 22 N.J.R. 292(a), 22 N.J.R. 593(a), 23 N.J.R. 723(a).

Definitions added and technical revisions made.

Amended by R.1992 d.102, effective March 2, 1992 (operative March 28, 1992).

See: 23 N.J.R. 1858(b), 24 N.J.R. 792(a).

Amended "source operation" and "surface cleaner"; added "volatile organic compound VOC" and deleted "mathematical combination" and "volatile organic substance".

Amended by R.1993 d.129, effective March 15, 1993 (operative April 20, 1993).

See: 24 N.J.R. 3459(a), 25 N.J.R. 1231(b).

Added definitions for "carbon monoxide", "federally enforceable", "lead or Pb", "major facility", "oxides of nitrogen or NO_x", "Ozone or O₃", "PM-10", "potential to emit", "significant net emission increase", "State implementation plan (SIP)", "sulfur dioxide or SO₂", and "total suspended particulate matter or TSP".

Amended by R.1993 d.428, effective September 7, 1993 (operative October 4, 1993).

See: 24 N.J.R. 4323(a), 25 N.J.R. 4075(b).

Amended by R.1994 d.313, effective June 20, 1994 (operative July 26, 1994).

See: 25 N.J.R. 3339(a), 26 N.J.R. 2600(a).

Amended by R.1994 d.502, effective October 3, 1994 (operative October 31, 1994).

See: 25 N.J.R. 3963(a), 25 N.J.R. 4836(a), 26 N.J.R. 793(a), 26 N.J.R. 3943(b).

Administrative Correction.

See: 27 N.J.R. 1406(a).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

Rewrote the section.

Administrative change.

See: 31 N.J.R. 639(b).

Amended by R.1999 d.242, effective August 2, 1999 (operative August 31, 1999).

See: 30 N.J.R. 2396(a), 31 N.J.R. 2200(a).

Inserted "Fuel cell system".

Amended by R.1999 d.428, effective December 6, 1999 (operative January 8, 2000).

See: 30 N.J.R. 4003(a), 31 N.J.R. 4016(a).

In "Category I", added 5.

Amended by R.2000 d.204, effective May 15, 2000 (operative June 6, 2000).

See: 31 N.J.R. 1671(a), 32 N.J.R. 1808(a).

Rewrote "Greenhouse gas" definition as "Greenhouse gas" or "GHG"; and in "Potential to emit", inserted a new fifth sentence, and rewrote the last sentence.

Amended by R.2002 d.53, effective February 4, 2002 (operative March 12, 2002).

See: 33 N.J.R. 3290(a), 34 N.J.R. 756(a).

Rewrote the section.

Amended by R.2004 d.129, effective April 5, 2004 (operative April 25, 2004).

See: 35 N.J.R. 3486(a), 36 N.J.R. 1791(a).

Added "Former DER credit user"; in "Potential to emit", deleted the fifth sentence and rewrote the last sentence.

Amended by R.2005 d.343, effective October 17, 2005 (operative November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Added definitions "Brake horsepower", "Energy and Environmental Technology Verification Act", "Microturbine", "Rated power output" and "Technology Acceptance and Reciprocity Partnership".

Amended by R.2005 d.392, effective November 21, 2005.

See: 36 N.J.R. 4607(a), 37 N.J.R. 16(b), 4415(a).

Deleted "carbon dioxide" from "Distillates of air" definition; added "except CO₂" to "Major facility" definition.

Amended by R.2006 d.212, effective June 19, 2006 (operative June 30, 2006).

See: 37 N.J.R. 4728(a), 38 N.J.R. 2691(b).

Added definitions "Application form", "On-specification used oil", "Probe", "Registrant", "Registration", "Registration form", "Renewal", "Renewal application stub", "Space heater" and "Used oil"; and deleted definitions "Category I" and "Category II".

Case Notes

Temporary operating certificate was license entitling operator to hearing prior to nonrenewal. New Jersey Dept. of Environmental Pro-

tection v. Atlantic States Cast Iron Pipe Co., 241 N.J.Super. 591, 575 A.2d 895 (A.D.1990).

7:27-8.2 Applicability

(a) This subchapter applies to certain sources of air contaminant emissions. Some of the sources are pieces of equipment; others are source operations or processes. A source that is required to have a permit and certificate under this subchapter is called a "significant source." A source that is not required to have a permit and certificate under this subchapter is called an "insignificant source."

(b) A significant source located at a facility covered by an operating permit issued by the Department under N.J.A.C. 7:27-22 is not subject to this subchapter. However, the following requirements apply to sources at operating permit facilities:

1. Until an operating permit is issued for a source subject to operating permit requirements, the source remains subject to this subchapter, and any permits or certificates required by this subchapter must be obtained and maintained.

2. If a new source which is subject to operating permit requirements elects under N.J.A.C. 7:27-22.5(g) to obtain a preconstruction permit and certificate under this subchapter prior to obtaining an operating permit, the source shall comply with this subchapter and with any Federal preconstruction requirements that apply; and

3. In some cases, a portion of an operating permit facility (such as a research and development operation) is not subject to operating permit requirements. In such a case, the portion of the facility that is not subject to operating permit requirements would remain subject to this subchapter.

(c) Any equipment or source operation that may emit one or more air contaminants, except carbon dioxide (CO₂), directly or indirectly into the outdoor air and belongs to one of the categories listed below, is a significant source (and therefore requires a preconstruction permit and an operating certificate), unless it is exempted from being a significant source pursuant to (d) or (e) below:

1. Commercial fuel burning equipment, except for a source listed in (c)21 below, that has a maximum rated heat input of 1,000,000 BTU per hour or greater to the burning chamber, including emergency generators;

2. Any source operation of equipment that has the potential to emit any Group 1 or Group 2 TXS (or a combination thereof) at a rate greater than 0.1 pounds per hour (45.4 grams per hour);

3. Dry cleaning equipment;

4. A surface cleaner which uses a cleaning solution containing five percent or more VOCs, HAPs, or VOC and HAP combined and which is:

7. Equipment at a battery charging station, except at a battery manufacturing plant;

8. A source used in any of the following, if the source supports one or more production processes of the facility, and does not itself constitute a facility production process or part thereof:

i. The activities of maintenance shops, such as welding, gluing, and soldering, performed indoors or outdoors;

ii. A laundry operation that services uniforms or other clothing used at the facility, not including:

(1) Any dry cleaning process; and

(2) Any dryer that is fuel burning equipment having a maximum rated heat input of 1,000,000 BTU per hour or greater;

iii. Architectural maintenance activities conducted to take care of the buildings and structures at a facility, including repainting, reroofing, and sandblasting; and

iv. Food preparation to service facility cafeterias and dining rooms;

9. An incinerator which serves a one or two family dwelling; or which serves a multi-occupied dwelling containing six or fewer family units, one of which is occupied by the owner of the dwelling;

10. A source which:

i. Was in operation prior to the date that sources of its kind were subject to permit requirements under this subchapter;

ii. Has not been reconstructed or modified since that date; and

iii. Is still operable;

11. A fuel cell system of:

i. Any generating capacity size fueled by hydrogen without a fuel processor;

ii. Less than 5,000 kilowatts generating capacity fueled by methane; or

iii. Less than 500 kilowatts generating capacity fueled by fuels other than hydrogen or methane;

12. Electric, plasma, or gaseous-fuel cutting equipment used to cut metal or metal products, provided the metal or metal product does not contain stainless steel, alloys of lead, alloys of arsenic, or alloys of beryllium;

13. Equipment at a commercial or non-commercial greenhouse or nursery operation which is used to blend or mix potting soil (including, but not limited to, soil, compost, artificial media or soil-less media, and/or peat moss) that is used on site for plant propagation and that is not offered for sale or sold commercially; and

14. Dry cleaning equipment that uses only liquid carbon dioxide (CO₂) as the cleaning agent.

(e) Equipment or a source operation, which would be classified as a significant source solely because it meets the criteria in (c)19 above, is not a significant source (and therefore does not need a permit and certificate), provided that (e)1, 2 and 3 below are satisfied:

1. The equipment or source operation is one of the following:

i. A mixer, cutter, molder, conveyer, blender, filler, or cooking kettle which processes material intended as food for direct human consumption, provided that the temperature of the food does not exceed 225 degrees Fahrenheit;

ii. Equipment that sands, drills, buffs, polishes, mills, carves, presses, or planes metal or metal products, except metal products containing stainless steel, alloys of lead, alloys of arsenic, or alloys of beryllium;

iii. Equipment that sands, drills, cuts, or planes untreated and unpainted wood or wood products;

iv. Equipment that cuts, trims, perforates, folds, or molds paper or paper products;

v. A vessel with a capacity of 1,000 gallons or greater in which the mixing or blending of liquids takes place in a non-reactive process, provided that:

(1) The operating temperature of the vessel is not greater than 350 degrees Fahrenheit; and

(2) The vapor pressure of the liquid, excluding the vapor pressure of water, is less than 0.02 pounds per square inch absolute at the liquid's actual temperature, or at 70 degrees Fahrenheit, whichever temperature is higher;

vi. A vessel with a capacity of less than 1,000 gallons in which the mixing or blending of liquids takes place in a non-reactive process, provided that the vapor pressure of the liquid, excluding the vapor pressure of water, is less than 1.5 pounds per square inch; or

vii. A vessel with a capacity of less than 1,000 gallons in which the mixing or blending of either solids and liquids or solids only takes place in a non-reactive process, provided that:

(1) The vapor pressure of any liquid, excluding the vapor pressure of water, is less than 1.5 pounds per square inch; and

(2) The vessel is equipped with a control apparatus designed to remove particulate emissions at a minimum efficiency of 99 percent or is located inside a room that is equipped with a control apparatus designed to remove particulate emissions at a minimum efficiency of 99 percent; and

2. The following criteria are met:

i. The source has no visible emissions, exclusive of water vapor, to the outdoor atmosphere;

ii. The source does not emit any air contaminant which may cause an odor detectable outside the property boundaries of the facility;

iii. The source meets one of the following criteria:

(1) The source is located in an enclosed work area equipped with heating and ventilation; emissions from the source are vented directly into the work area where the equipment is located and are free from the influence of any local exhaust ventilation system; and the work area meets an OSHA indoor air quality standard for occupancy even though the emissions are being released into the work area; or

(2) The source is a mixing or blending vessel which meets the criteria set forth in (e)1v through vii above and is vented directly to the outdoor atmosphere;

iv. The source is not subject to any NSPS, NESHAPS, or MACT air pollution control standard;

v. The source's potential to emit each TXS and each HAP does not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-8, Appendix 1, Table A for each TXS and Table B for each HAP; and

vi. The percentage by weight of all HAPs collectively in the raw material is less than 1.0 percent; and

3. The owner or operator of the source has readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that:

i. Specifies the contents of the source, if the source is a mixing or blending vessel;

ii. Affirms that the source meets all the criteria listed in (e)2 above; and

iii. Attests that the source is in compliance with all other applicable State or Federal air pollution requirements.

(f) Equipment or a source operation that would be classified as a significant source solely because it meets the criteria in (c)1 above is not a significant source (and, therefore, does not need a preconstruction permit and operating certificate) provided that it meets the criteria at (f)1 through 4 below:

1. The equipment or source operation is one of the following:

i. A microturbine with less than 500 kilowatts generating capacity that is fueled by natural gas and that

has been verified according to the requirements in (f)2 below to emit less than:

(1) 0.40 pounds of NO_x per megawatt hour; and

(2) 0.25 pounds of CO per megawatt hour; or

ii. Any piece of electric generating equipment, other than a fuel cell system or a microturbine, with less than 500 kilowatts generating capacity and that has been verified according to the requirements in (f)2 below to emit less than:

(1) 0.40 pounds of NO_x per megawatt hour;

(2) 0.25 pounds of CO per megawatt hour;

(3) 0.10 pounds of PM per megawatt hour; and

(4) 0.01 pounds of SO₂ per megawatt hour;

2. A facility with a source identified in (f)1 above shall verify its emissions and demonstrate conformance with the emission levels in (f)1 above using (f)2i or ii below. If verification process is not available pursuant to (f)2i below, or manufacturer testing has not been conducted in accordance with (f)2ii below or has been conducted in accordance with (f)2ii below but has been determined to be not acceptable with (f)2iv below, then the facility shall demonstrate conformance using (f)2iii below:

i. An applicable verification process approved by the Department pursuant to the EETV Act, or through TARP, available from the Department's Bureau of Sustainable Communities and Innovative Technologies at (609) 292-9692 or www.state.nj.us/dep/dsr/bscit.htm;

ii. The manufacturer's test protocol, provided the facility maintains on-site for inspection by the Department a copy of the protocol, test data and the test report, and available for Department review or request, and producing documents from the equipment manufacturer that the manufacturer has:

(1) Performed representative source emission testing on a model of equipment;

(2) Had the source emission testing and the test report reviewed and certified by a licensed professional engineer;

(3) Conducted a minimum of three consecutive one-hour test runs, in which the average of the test runs shall not have exceeded the emission limits stated at (f)1i and ii above; and

(4) Converted each test run to pounds per megawatt hour before averaging; or

iii. Stack emission testing, provided the facility has:

(1) Developed and used, a stack emission testing protocol using the protocol templates in Technical Manual 1004, available at the Department's website www.state.nj.us/dep/bts.html;

(2) Conducted a minimum of three consecutive one-hour test runs, in which the average of the test runs shall not exceed the emission limits stated at (f)1i and ii above; and

(3) Converted the results of each test run to pounds per megawatt hour before averaging.

iv. The Department may determine that the manufacturer's testing of a model of the equipment, under (f)2ii above, is not acceptable. The Department's basis for rejecting the manufacturer testing may include, but need not be limited to, inappropriate test methods, invalid test data, or test data that indicate emissions above the specified limits;

3. The owner or operator of the source shall have available on site a statement, certified in accordance with N.J.A.C. 7:27-1.39, by the responsible official, that the equipment or source operation meets all the criteria in (f)1 and 2 above. This certification shall be provided to the Department upon request; and

4. If the Department has reason to believe, as a result of an inspection or otherwise, that the equipment or a source operation is emitting NO_x above the specified limits, the Department, at its discretion, may require the owner or operator of the equipment or a source operation to submit the certified test report and/or supporting test data to the Department. The Department, at its discretion, may also require the owner or operator of a source to perform source emission testing in accordance with N.J.A.C. 7:27-8.4(f).

(g) Control apparatus serving a significant source shall be included in the preconstruction permit and operating certificate for the significant source.

(h) Although an insignificant source does not require a permit, emissions information from an insignificant source may be required on an application under N.J.A.C. 7:27-8.4 if the insignificant source vents to a control device, stack or chimney which also serves a significant source.

(i) A permit and certificate are not required for equipment, control apparatus, or a source operation at a facility which is covered by a facility-wide permit issued by the Department pursuant to N.J.S.A 13:1D-35 et seq. However, the holder of the facility-wide permit must comply with N.J.A.C. 7:27-8.27, Special facility-wide permit provisions.

(j) This subchapter shall not preclude the owner or operator of a facility from voluntarily obtaining a preconstruction permit and operating certificate for a source not otherwise required to obtain a permit.

Amended by R.1985 d.96, effective March 4, 1985 (operative April 5, 1985).

See: 16 N.J.R. 1671(a), 17 N.J.R. 587(a).

Substantially amended.

Amended by R.1991 d.109, effective March 4, 1991 (operative March 31, 1991).

See: 22 N.J.R. 292(a), 22 N.J.R. 593(a), 23 N.J.R. 723(a).

Heading changed from "Permits and certificates required" to "Applicability".

Clarification of types of equipment and control apparatus reported in permit and certificate process.

Added (a)17(b)1 and 2.

Amended by R.1992 d.102, effective March 2, 1992 (operative March 28, 1992).

See: 23 N.J.R. 1858(b), 24 N.J.R. 792(a).

VOC parameters added at (a)9 and (a)15i.

Amended by R.1994 d.502, effective October 3, 1994 (operative October 31, 1994).

See: 25 N.J.R. 3963(a), 25 N.J.R. 4836(a), 26 N.J.R. 793(a), 26 N.J.R. 3943(b).

Administrative change in (a)15.

See: 26 N.J.R. 4184(a).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

Rewrote the section.

Amended by R.1999 d.242, effective August 2, 1999 (operative August 31, 1999).

See: 30 N.J.R. 2396(a), 31 N.J.R. 2200(a).

In (d), added 11.

Amended by R.1999 d.428, effective December 6, 1999 (operative January 8, 2000).

See: 30 N.J.R. 4003(a), 31 N.J.R. 4016(a).

Rewrote (c)13.

Amended by R.2002 d.53, effective February 4, 2002 (operative March 12, 2002).

See: 33 N.J.R. 3290(a), 34 N.J.R. 756(a).

Rewrote (c) and (d); added new (e) and (f); recodified existing (e) through (g) as (g) through (i).

Amended by R.2005 d.343, effective October 17, 2005 (operative November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

In (c), deleted "or" preceding "(e)" and added "or (f)" following "(e)"; in (c)1, added "except for a source listed in (c)21 below," and "including emergency generators"; in (c)19ii(4), deleted "and"; substituted "and" for "." at the end of (c)20, and added (c)21; rewrote (d); added (f); recodified former (f)-(i) as (g)-(j).

Amended by R.2005 d.392, effective November 21, 2005.

See: 36 N.J.R. 4607(a), 37 N.J.R. 16(b), 4415(a).

Added "except carbon dioxide (CO₂)," to introductory paragraph of (c).

Amended by R.2006 d.212, effective June 19, 2006 (operative June 30, 2006).

See: 37 N.J.R. 4728(a), 38 N.J.R. 2691(b).

Substituted "and" for a period at the end of (d)13; and added (d)14.

Case Notes

Orders to cease violation in failure to obtain a permit and certificate to install and operate furnace boosting equipment were upheld. *Midland Glass Co., Inc. v. Dept. of Environmental Protection*, 136 N.J.Super. 194, 345 A.2d 353 (App.Div.1975), certification dismissed 70 N.J. 152, 358 A.2d 199 (1976).

Both "smog hog"/electrostatic precipitator and "Binks" spray booth were control apparatus requiring permits and operating certificates. *Affiliated Manufacturers, Inc. v. State of New Jersey*, 92 N.J.A.R.2d (EPE) 186.

7:27-8.3 General provisions

(a) No person may construct, reconstruct, install, or modify a significant source or control apparatus serving the significant source without first obtaining a preconstruction permit under this subchapter.

(b) No person shall operate (nor cause to be operated) a significant source or control apparatus serving the significant source without a valid operating certificate.

(c) No permittee may take any action which requires a permit revision, compliance plan change, seven-day-notice change, amendment, or change to a batch plant permit, under any applicable provision at N.J.A.C. 7:27-8.17 through 8.23, without complying with that applicable provision.

(d) Any person holding a permit or certificate shall make said permit or certificate, together with any amendments, seven-day-notices, or other documents related to the permit and certificate, readily available for Department inspection on the operating premises.

(e) No person shall use or cause to be used any equipment or control apparatus unless all components connected or attached to, or serving the equipment or control apparatus, are functioning properly and are in use in accordance with the preconstruction permit and certificate and all conditions and provisions thereto.

(f) A preconstruction permit or certificate shall not be transferable either from the location authorized in the preconstruction permit or certificate in effect to another location, or from any one piece of control apparatus or equipment to another piece of control apparatus or equipment.

(g) Once a permit and certificate is issued, the permittee is fully responsible for compliance with this subchapter and with the permit and certificate, including adequate design, construction, and operation of the source, even if employees, contractors, or others work on or operate the permitted source. If the Department issues any other requirement with the force of law, such as an order, which applies to the source, the permittee is also responsible for compliance with that requirement.

(h) Preconstruction permits and certificates issued under this subchapter do not in any way relieve the applicant from the obligation to obtain necessary permits from other governmental agencies and to comply with all other applicable Federal, State, and local rules and regulations.

(i) A person conducting only normal repair or maintenance of control apparatus or equipment, as defined at N.J.A.C. 7:27-8.1, need not comply with (a), (b) or (c) above.

(j) No person holding any preconstruction permit or certificate shall suffer, allow, or permit any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the owner or operator has exclusive use or occupancy. In determining whether an odor unreasonably interferes with the enjoyment of life or property, the Department shall consider all of the relevant facts and circumstances, including, but not limited to, the character, severity, frequency, and duration of the odor, and the number of persons affected thereby. In considering these and other rele-

vant facts and circumstances, no one factor shall be dispositive, but each shall be considered relevant in determining whether an odor interferes with the enjoyment of life or property, and, if so, whether such interference is unreasonable considering all of the circumstances.

(k) (Reserved)

(l) (Reserved)

(m) The Department and its representatives have the right to enter and inspect any facility or property in accordance with N.J.A.C. 7:27-1.31.

(n) There shall be an affirmative defense to liability for penalties for a violation of a preconstruction permit or certificate, occurring as a result of an equipment malfunction, an equipment startup, an equipment shutdown, or during the performance of necessary equipment maintenance. The affirmative defense shall be asserted and established as required by P.L. 1993, c.89 (adding N.J.S.A. 26:2C-19.1 through 2C-19.5) and any rules that the Department promulgates thereunder, and shall meet all of the requirements thereof. There shall also be an affirmative defense to liability for penalties or other sanctions for noncompliance with any technology based emission limitation in the preconstruction permit or certificate, if the noncompliance was due to an emergency as defined at N.J.A.C. 7:27-22.1, provided that the affirmative defense is asserted and established in compliance with 40 CFR 70.6(g) and meets all the requirements thereof.

(o) On and after April 25, 2004, no permittee may use DER credits to comply with a VOC or NO_x permit limit established pursuant to this subchapter. Notwithstanding (c) above, a former DER credit user who used DER credits to comply with a NO_x RACT limit established pursuant to N.J.A.C. 7:27-19 and who would continue to require the use of DER credits to comply with that limit, may, on and after April 25, 2004 use NO_x budget allowances, as defined by the provisions of N.J.A.C. 7:27-31, to comply with that NO_x RACT limit provided that:

1. The use of such NO_x budget allowances conforms with the requirements at N.J.A.C. 7:27-19.27; and
2. The permittee files a seven-day-notice as provided at N.J.A.C. 7:27-8.20.

Amended by R.1985 d.96, effective March 4, 1985 (operative April 5, 1985).

See: 16 N.J.R. 1671(a), 17 N.J.R. 587(a).

Substantially amended.

Amended by R.1991 d.109, effective March 4, 1991 (operative March 31, 1991).

See: 22 N.J.R. 292(a), 22 N.J.R. 593(a), 23 N.J.R. 723(a).

Replaced (b) and (c). Added (j).

Clarification of procedural requirements for permit process.

Amended by R.1993 d.129, effective March 15, 1993 (operative April 20, 1993).

See: 24 N.J.R. 3459(a), 25 N.J.R. 1231(b).

New subsection (k) added.

movement of air across the top of the freeboard area of the solvent cleaning machine to less than 50 feet per minute (15.2 meters per minute) by methods including, but not limited to, redirecting fans and/or air vents, moving the machine to a corner or other area in the room where there is less flow or movement of air, or constructing a partial or complete enclosure around the machine.

“Refinishing” means, with respect to automobiles and light duty trucks, the recoating of the main body or other exterior areas of any passenger car or passenger car derivative capable of seating 15 or fewer passengers or any motor vehicle rated at 8,500 pounds (3,856 kilograms) gross weight or less which is designed primarily for purposes of transportation, of property, or a derivative of such vehicle including, but not limited to, pick-ups, vans, and window vans. It shall not include the use of adhesive promoters, zinc phosphate pretreatments, uniforming finishes or blenders, specialty primers for plastics, or low reflective accessory coatings.

“Regenerative cycle combustion turbine” means a combustion turbine that recovers heat from its exhaust gases and uses that heat to preheat the inlet combustion air which is fed into the combustion turbine.

“Regulated leak” means any gaseous leak of applicable VOC at a concentration or level above any applicable limit established in Tables 18A and 18B and any liquid leak of an applicable VOC.

“Reid vapor pressure” or “RVP” means the absolute vapor pressure of a petroleum product in pounds per square inch (or kilopascals) at 100 degrees Fahrenheit ((F) (37.8 degrees Celsius ((C)) as measured by “Method 3 Evacuated Chamber Method” promulgated at 40 CFR 80, Appendix E; or any other equivalent test method approved in advance in writing by the Department and the EPA.

“Remote reservoir cold cleaning machine” means a cold cleaning machine in which liquid solvent is pumped into a sink-like work area where the cleaning of parts occurs, and from which the solvent is immediately drained back into an enclosed container or reservoir, so that no solvent is allowed to pool in the work area.

“Repair” means, with respect to a VOC leak, a corrective action taken to eliminate the leak or reduce the leak to below regulated levels.

“Research” means investigations directed toward the discovery of facts, scientific principles, reactions, or substances.

“Rotogravure printing operation (web-fed)” means a system of transferring images onto a substrate through first applying ink to a cylinder into the surface of which small, shallow cells have been etched forming an image or a pattern, then wiping the lands between the cells free of ink with a doctor blade, and finally contacting the substrate, which is fed from a continuous roll, over the cylinder so that the surface of

the substrate is pressed into the cells, transferring the ink to the substrate. This term does not include proof presses which are being used to check the quality of the image formation of newly engraved or etched gravure cylinders.

“Rupture disc” means a type of pressure relief device which is designed to fracture, rupture, or burst under pressure when the pressure within the system exceeds a set level. Such a device is commonly a diaphragm held between flanges, which under conditions of normal operation remains intact and prevents gases from being released from the system.

“Screen printing operation” means a system of transferring images onto a substance in which the printing ink passes through a fabric to which a stencil has been applied. The openings in the stencil determine the form and dimensions of the imprint.

“Seal-envelope combination” means a barrier to the passage of VOC vapors between a floating roof and the inner surface of a storage vessel wall, consisting of a seal which maintains constant contact with the wall as the floating roof rises and descends with the level of the stored VOC, and a membrane, diaphragm, fabric, or blanket, known as an envelope, which spans the gap between the floating roof and the seal and which is vapor-tight.

“Sealer” means coatings containing binders that seal a wood surface prior to application of subsequent coatings.

“Semitransparent stain” means stains that contain dyes and/or semitransparent pigments and are formulated to enhance wood grain and to change the color of the surface, but not to conceal the surface; including sap stain, toner, nongrain raising stains, pad stain, spatter stain, and other semitransparent stains.

“Simple cycle combustion turbine” means a combustion turbine that does not recover heat from its exhaust gases.

“Small appliances” means devices used primarily in households and offices including, but not limited to, fans, mixers, blenders, dehumidifiers, toasters, toaster-ovens, slow pot cookers, food processors, portable heaters, lamps, typewriters, staplers, and paper punches.

“Solid particles” means particles of rigid shape and definite volume.

“Solvent/air interface” means, with respect to a solvent cleaning machine, the interface between the concentrated solvent vapor layer and the air. For a vapor cleaning machine, this contact point is defined as the plane at the mid-line height of the primary condenser coils. For a cold cleaning machine, this contact point is defined as the plane of contact between the liquid solvent and the air.

“Solvent cleaning machine” means a device or piece of equipment that uses solvent, in a liquid or vapor state, to

remove contaminants, such as dirt, grease, oil, and coatings, from the surfaces of materials. Types of solvent cleaning machines include, but are not limited to, vapor cleaning machines, cold cleaning machines, and airless and air-tight cleaning systems.

“Solvent recovery dryer” means a class of dry cleaning dryers that employs a condenser to liquefy and recover solvent vapors evaporated in a closed-loop, recirculating stream of heated air.

“Source gas” means air or gases passed through, or generated by, a source operation and discharged from the source operation.

“Source operation” means any process or any identifiable part thereof that emits or can reasonably be anticipated to emit any air contaminant either directly or indirectly into the outdoor atmosphere. A source operation may include one or more pieces of equipment or control apparatus.

“Special purpose screen printing inks and coatings” means inks and coatings used in screen printing which are used to print ink transfers, or are designed to resist or withstand any of the following: more than two years of outdoor exposure, exposure to chemicals, solvents, acids, detergents, oil products or cosmetics, temperatures in excess of 170 degrees Fahrenheit, vacuum forming, embossing or molding.

“Stack or chimney” means a flue, conduit or opening designed, constructed or utilized for the purpose of emitting any air contaminant into the outdoor atmosphere.

“Standard conditions” means 70 degrees Fahrenheit ((F) (21.1 degrees Celsius ((C)) and one atmosphere pressure (14.7 pounds per square inch absolute or 760.0 millimeters of mercury).

“Standard Industrial Classification Code” or “SIC Code” means the system devised by the United States Office of Management and Budget to classify establishments according to the type of economic activity in which they are engaged.

“State implementation plan” or “SIP” means a plan for the attainment of any NAAQS, prepared by a state and approved by the EPA pursuant to Section 110 of the Clean Air Act (42 U.S.C., § 1857 et seq.).

“Stationary combustion turbine” means any simple cycle combustion turbine, regenerative cycle combustion turbine, or combustion turbine portion of a combined cycle steam/electric generating system that:

1. Is not self-propelled, but may be mounted on a vehicle for portability: or
2. Is self-propelled on tracks at a facility, but does not in the course of its normal operation leave the facility.

“Stationary reciprocating engine” means an internal combustion engine that is a reciprocating engine that remains

for more than 30 days at a single site (for example, any building, structure, facility, or installation), and:

1. Is not self-propelled but may be mounted on a vehicle for portability: or
2. Is self-propelled on tracks at a facility, but does not in the course of its normal operation leave the facility. This term does not include mobile electric generators being used by the military, locomotive engines.

“Steam generating unit” means any furnace, boiler, or other device which combusts fuel for the purpose of producing steam.

“Storage tank” means any tank, reservoir, or vessel which is a container for liquids or gases, wherein:

1. No manufacturing process, or part thereof, other than filling or emptying takes place; and
2. The only treatment carried out is that necessary to prevent change from occurring in the physical condition or the chemical properties of the liquids or gases deposited into the container. Such treatment may include recirculating, agitating, maintaining the temperature of the stored liquids or gases, or replacing air in the vapor space above the stored liquids or gases with an inert gas in order to inhibit the occurrence of chemical reaction.

“Submerged fill pipe” means a fill pipe whose point of discharge into the receiving vessel is entirely submerged when the liquid level is no more than 6 inches (15.2 centimeters) above the vessel bottom or, in the case of a top or side-entering fill pipe, when the liquid level is no more than three times the inside radius of the fill pipe plus 5 inches (12.7 centimeters), but no more than 42 inches (106.7 centimeters), above the vessel bottom.

“Superheated vapor system” means, with respect to a vapor cleaning machine, a system that heats the solvent vapor to a temperature that is at least ten degrees Fahrenheit above the solvent’s boiling point. In such a system parts are held in the superheated vapor and then exit the machine.

“Surface cleaner” means a device to remove unwanted foreign matter from the surfaces of non-porous or non-absorbent materials by using VOC solvents in liquid or vapor state.

“Surface coating formulation” means the material used to form a protective, functional, or decorative film including, but not limited to, paint, varnish, ink, or adhesive, applied to or impregnated into a substrate. This term includes such material whether used in a surface coating or graphic arts operation.

“Surface coating formulation as applied” or “coating as applied” means the volume, in gallons or liters, of any surface coating formulation used in a surface coating operation, including any diluents or thinners added.

maximum VOC batch cycle emission rate for a batch operation, considering any enforceable limitations on the operation including those set forth in any applicable rule or regulation, permit, or operating certificate.

Amended by R.1986 d.379, effective September 22, 1986 (operative October 18, 1986).

See: 17 N.J.R. 1969(a), 18 N.J.R. 1936(a).
Substantially amended.

Amended by R.1988 d.44, effective January 19, 1988 (operative February 21, 1988).

See: 19 N.J.R. 1938(a), 20 N.J.R. 186(b).

Added definition "Gasoline dispensing facility".

Amended by R.1989 d.62, effective February 6, 1989.

See: 20 N.J.R. 1866(a), 21 N.J.R. 321(a).

Added "barges as tankers" to "Delivery vessel" and added definition "marine delivery vessel".

Amended by R.1989 d.331, effective June 19, 1989 (operative July 24, 1989).

See: 20 N.J.R. 3052(a), 21 N.J.R. 1669(b).

Added definition for "custom topcoating of automobiles and light duty trucks", amended "refinishing of automobiles and light duty trucks" by referencing those coatings and finishes to be excluded and change number of passenger seating from 12 to 15 in "surface coating of automobiles and light-duty trucks".

Public Notice: Petition for rulemaking concerning a Volatile Organic Substance.

See: 22 N.J.R. 1632(c).

Public Notice: Action on Petition for rulemaking concerning a Volatile Organic Substance.

See: 22 N.J.R. 2041(a).

Public Notice: Amend definition of volatile organic compounds to exclude four halogenated chlorofluorocarbons.

See: 22 N.J.R. 3165(c).

Amended by R.1992 d.102, effective March 2, 1992 (operative March 28, 1992).

See: 23 N.J.R. 1858(b), 24 N.J.R. 792(a).

Amended definitions for "air contaminant", "conservation vent", "control apparatus", "conveyorized surface cleaner", "department", "equipment", "facility", "freeboard chiller", "freeboard height", "gasoline", "liquid particles", "particles", "person", "petroleum distillate", "receiving vessel", "reid vapor pressure", "seal-envelope combination", "source operation", "stack or chimney", "standard conditions", "storage tanks", "surface coating of automobiles and light-duty trucks", "surface cleaners", "surface coating formulation" and "surface coating operation"; added new definitions for "capture efficiency", "certificate", "destruction efficiency", "distillates of air", "EPA", "exempt organic substance", "indirect emissions", "operating certificate", "partial pressure", "permit", "surface coating formulation as applied", "temporary operating certificate", "vapor pressure", "volatile organic compound (VOC)", and "worst case operating conditions"; deleted definitions for "high performance architectural coating" and "volatile organic substances".

Administrative corrections to "cutback asphalt", "Department", "fabric printing operation", "graphic arts", "storage tank" and "vapor balance system".

See: 24 N.J.R. 1889(a).

Amended by R.1993 d.666, effective December 20, 1993 (operative July 26, 1994).

See: 25 N.J.R. 3339(a), 25 N.J.R. 4551(a), 25 N.J.R. 6002(a).

Amended by R.1994 d.313, effective June 20, 1994 (operative July 26, 1994).

See: 25 N.J.R. 3339(a), 26 N.J.R. 2600(a).

Administrative Correction.

See: 27 N.J.R. 1406(a).

Amended by R.1995 d.255, effective May 15, 1995 (operative June 19, 1995).

See: 26 N.J.R. 4478(a), 27 N.J.R. 1979(b).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

Inserted "Facility-wide permit", "Operating permit", and "Preconstruction permit"; and rewrote "Permit".

Administrative change.

See: 31 N.J.R. 639(b).

Amended by R.2003 d.224, effective June 2, 2003 (operative June 29, 2003).

See: 34 N.J.R. 2489(a), 35 N.J.R. 2509(a).

Rewrote the section.

Amended by R.2004 d.129, effective April 5, 2004 (operative April 25, 2004).

See: 35 N.J.R. 3486(a), 36 N.J.R. 1791(a).

In the introductory paragraph, substituted "when used in this subchapter, have the same meanings" for "when used in this subchapter, shall have the meanings"; added "Former DER credit user".

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Added definitions "Brake horsepower", "Boiler serving an electric generating unit", "Combustion turbine", "Construction engine", "Electric distribution company", "Electric distribution system", "Electric generating unit", "Emergency", "Emergency generator", "Industrial/commercial/institutional boiler", "Internal combustion engine", "KW", "MW", "PJM", "Power outage", "Rated power output", "Reciprocating engine" and "Voltage reduction"; rewrote definitions "Combined cycle gas combustion turbine", "Regenerative cycle gas combustion turbine", "Simple cycle gas combustion turbine", "Stationary gas combustion turbine" and "Stationary internal combustion reciprocating engine"; deleted definitions "Gas turbine", "Non-utility boiler", and "Utility boiler".

Amended by R.2005 d.392, effective November 21, 2005.

See: 36 N.J.R. 4607(a), 37 N.J.R. 16(b), 4415(a).

Deleted "carbon dioxide" from "Distillates of air" definition.

Law Review and Journal Commentaries

Air Pollution Law Changes Target Nitrogen Oxides. Neale R. Bedrock, 136 N.J.L.J. No. 8, S17 (1994).

Explaining the facts of BACT, RACT and GACT. Neale R. Bedrock, 138 N.J.L.J. No. 8, S4 (1994).

Case Notes

Regulations prescribing implementation schedule for stage II vapor recovery system were valid. *American Petroleum Institute v. New Jersey Dept. of Environmental Protection*, 230 N.J.Super. 563, 554 A.2d 3 (A.D.1989).

7:27-16.1A Purpose, scope, applicability, and severability

(a) This subchapter establishes requirements and procedures concerning the control and prohibition of air pollution by volatile organic compounds (VOC). The general purposes of this subchapter are as follows:

7:27-18.10 Exemptions

(a) If a person demonstrates that a proposed significant net emission increase of an air contaminant which results from the use of alternative fuels in existing fuel burning equipment will not cause an exceedance of the significance level for the respective criteria pollutant in a nonattainment area for that pollutant, and will not prevent reasonable further progress toward attaining any NAAQS, the Department may, in its discretion, exempt the person from compliance with the provisions of this subchapter. No exemption shall be granted unless the person demonstrates, at a minimum, that:

1. The equipment was capable of burning the alternative fuel before December 21, 1976; or
2. The equipment must use such fuel by reason of an order in effect under Section 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (15 U.S.C. 792 et seq.) or under any superseding legislation, or by reason of a natural gas curtailment plan in effect pursuant to the Federal Power Act of 1978 (16 U.S.C. 791a et seq.); or
3. The alternative fuel is derived from municipal solid waste; or
4. The alternative fuel is to be used by reason of an order or rule issued under Section 125 of the Clean Air Act.

(b) N.J.A.C. 7:27-18.3(c)1 does not apply to any person submitting an application for:

1. Portable facilities which will be relocated outside of a nonattainment area within six months of initiation of operation; or
2. Temporary source operations which produce an experimental product, and which cease operation within six months of initiation of operation.

(c) The exemption in (b) above may not be applied to the same portable facility or temporary source operation more than once within the lifetime of the portable facility or temporary source operation.

Recodified from 18.9 and amended by R.1993 d.129, effective March 15, 1993 (operative April 20, 1993).

See: 24 N.J.R. 3459(a), 25 N.J.R. 1231(b).

Changes made pursuant to 1990 Clean Air Act amendments. Amended by R.1996 d.511, effective November 4, 1996 (operative November 23, 1996).

See: 28 N.J.R. 748(a), 28 N.J.R. 4784(b).

7:27-18.11 (Reserved)

New Rule, R.1993 d.129, effective March 15, 1993 (operative April 20, 1993).

See: 24 N.J.R. 3459(a), 25 N.J.R. 1231(b).

New Rule, R.2000 d.204, effective May 15, 2000 (operative June 6, 2000).

See: 31 N.J.R. 1671(a), 32 N.J.R. 1808(a).

Administrative change.

See: 32 N.J.R. 3117(a).

Repealed by R.2004 d.129, effective April 5, 2004 (operative April 25, 2004).

See: 35 N.J.R. 3486(a), 36 N.J.R. 1791(a).

Section was "Procedures for interstate and intrastate trading".

7:27-18.12 Civil or criminal penalties for failure to comply

The owner or operator of any facility subject to this subchapter shall be responsible for ensuring compliance with all requirements of this subchapter. Failure to comply with any provision of this subchapter may subject the owner or operator to civil penalties in accordance with N.J.A.C. 7:27A-3 and applicable criminal penalties, including, but not limited to, those set forth at N.J.S.A. 26:2C-19(f)1 and 2. If there is more than one owner or operator of a facility, all owners and operators are jointly and severally liable for such civil penalties.

New Rule, R.1993 d.129, effective March 15, 1993 (operative April 20, 1993).

See: 24 N.J.R. 3459(a), 25 N.J.R. 1231(b).

SUBCHAPTER 19. CONTROL AND PROHIBITION OF AIR POLLUTION FROM OXIDES OF NITROGEN**Authority**

N.J.S.A. 13:1B-3, 13:1D-9, and 26:2C-1 et seq., in particular 26:2C-9(c) and 19.

Source and Effective Date

R.1993 d.682, effective December 20, 1993 (operative January 23, 1994).

See: 25 N.J.R. 631(a), 25 N.J.R. 5957(a).

Law Review and Journal Commentaries

Air Pollution Law Changes Target Nitrogen Oxides. Neale R. Bedrock, 136 N.J.L.J. No. 8, S17 (1994).

Explaining the Facts of BACT, RACT and GACT. Neale R. Bedrock, 138 N.J.L.J. No. 8, 54 (1994).

7:27-19.1 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings, unless the context clearly indicates otherwise.

"Air contaminant" means any substance, other than water or distillates of air, present in the atmosphere as solid particles, liquid particles, vapors or gases.

"Ambient air quality standard" means a limit on the concentration of an air contaminant in the general outdoor atmosphere as set forth in N.J.A.C. 7:27-13 or 40 CFR 50.

"Alter" means to effect an alteration of equipment or control apparatus.

“Alteration” means one of the following changes to equipment or control apparatus, or to a source operation, for which a permit has been issued:

1. If the equipment, control apparatus, or source operation is subject to preconstruction permit requirements, a change which requires a permit revision under N.J.A.C. 7:27-8.18; or

2. If the equipment, control apparatus, or source operation is at a facility for which an operating permit has been issued, a change which requires a minor modification or a significant modification of the permit under N.J.A.C. 7:27-22.23 or 24.

“Alternative maximum allowable emission rate” means a maximum allowable emission rate, set by the Department on a site-specific basis pursuant to N.J.A.C. 7:27-19.13.

“Anthracite coal” means coal that is classified as anthracite according to the ASTM Standard Specification for Classification of Coals by Rank, ASTM D 388-77, incorporated herein by reference, as amended or supplemented. This specification can be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.

“Asphalt” means a solid, semisolid, or liquid material, produced by mixing bituminous substances together with gravel, crushed rock or similar materials, and used commonly as a coating or paving.

“ASTM” means the American Society for Testing and Materials.

“Averaging” means complying with the requirements of this subchapter pursuant to N.J.A.C. 7:27-19.6, Emissions averaging.

“Averaging unit” means an individual source operation or item of equipment which is included in a designated set for the purpose of averaging pursuant to N.J.A.C. 7:27-19.6.

“Base year” means calendar year 1990 or other calendar year determined pursuant to N.J.A.C. 7:27-19.20(d)1, in connection with a plan for seasonal fuel switching.

“Batch type asphalt plant” means an asphalt plant where the aggregate and asphalt cement or other binder are mixed in equipment other than a rotary dryer.

“Bituminous coal” means coal that is classified as bituminous according to the ASTM Standard Specification for Classification of Coals by Rank, ASTM D 388-77, incorporated herein by reference, as amended or supplemented. This specification can be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.

“Borosilicate recipe” means a formula for making glass using 60 to 80 percent silicon dioxide, five to 35 percent boric oxides, and four to 23 percent other oxides.

“Boiler serving an electric generating unit” means a steam generating unit used for generating electricity including a unit serving a cogeneration facility.

“Brake horsepower” or “bhp” means a measure of mechanical power generated by a reciprocating engine determined by a brake attached to the shaft coupling.

Brake horsepower-hour" or "bhp-hr" means a unit of energy or work, equal to the work done by a mechanism with a power output of one brake horsepower over a period of one hour.

“British thermal unit” or “BTU” means the quantity of heat required to raise the temperature of one avoirdupois pound of water one degree Fahrenheit at 39.1 degrees Fahrenheit.

“Budget source” means those sources regulated in N.J.A.C. 7:27-31.

“Calendar day” means the 24 hour period from 12:00 o’clock midnight to 12:00 o’clock midnight the following day.

“Carbon monoxide (CO)” means a colorless, odorless, tasteless gas at standard conditions, having a molecular composition of one carbon atom and one oxygen atom.

“Certificate” means either an operating certificate or a temporary operating certificate.

“Cleaner fuel” means a fuel other than a combustion source’s primary fuel, the combustion of which results in a rate of NO_x emissions that is less than the rate of NO_x emissions when the primary fuel is combusted, all other circumstances being equal.

“CFR” means the United States Code of Federal Regulations.

“Clean Air Act” or “CAA” means the Federal Clean Air Act, 42 U.S.C. §§ 7401 et seq., as amended and supplemented.

“Coal” means anthracite coal, bituminous coal, coke, lignite, nonbanded coal, and/or subbituminous coal.

“Coke” means a fused, cellular, porous substance that remains after free moisture and the major portion of the volatile materials have been distilled from bituminous coal and other carbonaceous material by heating it in the absence of air or with a limited supply of air.

“Combined cycle combustion turbine” means a combustion turbine that recovers heat from the turbine exhaust gases to heat water or generate steam.

“Steam generating unit” means any furnace, boiler, or other device which combusts commercial fuel for the purpose of producing steam.

“Subbituminous coal” means coal that is classified as subbituminous according to the ASTM Standard Specification for Classification of Coals by Rank, ASTM D 388-77, incorporated herein by reference, as amended or supplemented. This document may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959.

“Tangential-fired boiler” means a furnace firing design where the burners are mounted at the corners of the furnace chamber.

“Testing” means a procedure for determining the kind and amount of one or more air contaminants, potential air contaminants or air contaminant precursors present. This term includes, but is not limited to, sampling, sample custody, analysis, and reporting of findings.

“Use” means to engage in any form or manner of operation of equipment or control apparatus subsequent to the installation of such equipment or control apparatus. This term includes any trial operation.

“Volatile organic compound” or “VOC” means any compound of carbon (other than carbon monoxide, carbon dioxide, carbonic acid, metallic carbonates, metallic carbides, and ammonium carbonate) which participates in atmospheric photochemical reactions. For the purpose of determining compliance with emission limits or content standards, VOC shall be measured by test methods which have been approved in writing by the Department. This term excludes those compounds which EPA has excluded from its definition of VOC in the list set forth at 40 CFR 51.100(s)(1), which is incorporated by reference herein, together with all amendments and supplements. As of April 9, 1998, the compounds and classes of perfluorocarbons excluded from EPA’s definition of VOC at 40 CFR 51.100(s) are set forth below:

methane

ethane

methylene chloride (dichloromethane)

1,1,1-trichloroethane (methyl chloroform)

1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)

trichlorofluoromethane (CFC-11)

dichlorodifluoromethane (CFC-12)

chlorodifluoromethane (HCFC-22)

trifluoromethane (HFC-23)

1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)

chloropentafluoroethane (CFC-115)

2,2-dichloro-1,1,1-trifluoroethane (HCFC-123)

1,1,1,2-tetrafluoroethane (HFC-134a)

1,1-dichloro-1-fluoroethane (HCFC-141b)

1-chloro-1,1-difluoroethane (HCFC-142b)

2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)

pentafluoroethane (HFC-125)

1,1,2,2-tetrafluoroethane (HFC-134)

1,1,1-trifluoroethane (HFC-143a)

1,1-difluoroethane (HFC-152a)

parachlorobenzotrifluoride (PCBTF)

cyclic, branched, or linear completely methylated siloxanes

acetone

perchloroethylene (tetrachloroethylene)

3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)

1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)

1,1,1,2,3,4,4,5,5-decafluoropentane (HFC 43-10mee)

difluoromethane (HFC-32)

ethylfluoride (HFC-161)

1,1,1,3,3,3-hexafluoropropane (HFC-236fa)

1,1,2,2,3-pentafluoropropane (HFC-245ca)

1,1,2,3,3-pentafluoropropane (HFC-245ea)

1,1,1,2,3-pentafluoropropane (HFC-245eb)

1,1,1,3,3-pentafluoropropane (HFC-245fa)

1,1,1,2,3,3-hexafluoropropane (HFC-236ea)

1,1,1,3,3-pentafluorobutane (HFC-365mfc)

chlorofluoromethane (HCFC-31)

1-chloro-1-fluoroethane (HCFC-151a)

1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)

1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane (C₄F₉OCH₃)

2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF₃)₂CF₂OCH₃)

1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane
(C₄F₉OC₂H₅)

2-(ethoxydifluoromethyl)-1,1,1,2,2,3,3,3-heptafluoropropane ((CF₃)₂CFCF₂OC₂H₅)

methyl acetate

perfluorocarbon compounds which fall into these classes:

cyclic, branched, or linear, completely fluorinated alkanes

cyclic, branched, or linear, completely fluorinated ethers with no unsaturations

cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations

sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine

If there is any conflict between the list at 40 CFR 51.100(s)(1) and the list set forth above, the list at 40 CFR 51.100(s)(1) shall control.

“Voltage reduction” means a reduction in customer supply voltage of at least five percent by an electric distribution company in order to reduce load on an electric distribution system.

“Wet bottom boiler” means a boiler serving an electric generating unit in which the ash is removed from the boiler in a molten state.

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

Inserted “Facility-wide permit”, “Operating permit” and “Preconstruction permit”; and rewrote “Alteration” and “Permit”.

Administrative change.

See: 31 N.J.R. 639(b).

Amended by R.2004 d.129, effective April 5, 2004 (operative April 25, 2004).

See: 35 N.J.R. 3486(a), 36 N.J.R. 1791(a).

Added “Former DER credit user”.

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Rewrote the section.

Amended by R.2005 d.392, effective November 21, 2005.

See: 36 N.J.R. 4607(a), 37 N.J.R. 16(b), 4415(a).

Deleted “carbon dioxide” from “Distillates of air” definition.

7:27-19.2 Purpose, scope and applicability

(a) This subchapter establishes requirements and procedures concerning the control and prohibition of air pollution by oxides of nitrogen. The general purpose of this subchapter is to require the owner or operator of certain stationary source operations to use reasonably available control technology (RACT) to prevent or control NO_x emissions. EPA defines RACT to mean the lowest emission limitation that a particular source is capable of meeting by the application of air

pollution control technology which is reasonably available considering technological and economic feasibility.

(b) The following types of equipment and source operations are subject to the provisions of this subchapter:

1. Any boiler serving an electric generating unit, located at a major NO_x facility;

2. Until March 7, 2007, any industrial/commercial/institutional boiler or other indirect heat exchanger that has a maximum gross heat input rate of at least 20 million BTUs per hour, located at a major NO_x facility. On and after March 7, 2007, the applicability of this subchapter to an industrial/commercial/institutional boiler or other indirect heat exchanger shall be determined by (c)1 below;

3. Until March 7, 2007, any stationary combustion turbine that has a maximum gross heat input rate of at least 30 million BTUs per hour, located at a major NO_x facility. On and after March 7, 2007, the applicability of this subchapter to a stationary combustion turbine shall be determined by (c)2 below;

4. Any stationary reciprocating engine capable of producing an output of 500 brake horsepower or more and located at a major NO_x facility. In addition, on and after March 7, 2007, the applicability of this subchapter to a stationary reciprocating engine or group of stationary reciprocating engines, used for generating electricity, shall be determined by (c)3 and 4 below;

5. Any rotary dryer located at an asphalt plant;

6. Any glass manufacturing furnace producing commercial container glass, and having a maximum potential production rate of at least 14 tons of glass removed from the furnace per day and having the potential to emit more than 10 tons of NO_x per year;

7. Any glass manufacturing furnace producing specialty container glass, and having a maximum potential production rate of at least seven tons of glass removed from the furnace per day and having the potential to emit more than 10 tons of NO_x per year;

8. Any glass manufacturing furnace producing borosilicate recipe glass, and having a maximum potential production rate of at least five tons of glass removed from the furnace per day, and having the potential to emit more than 10 tons of NO_x per year; and

9. Any other equipment or source operation not specifically listed at (b)1 through 8 above or (c) below that has the potential to emit more than 10 tons of NO_x per year.

(c) On and after March 7, 2007, in addition to the types of equipment and source operations listed at (b) above, the following types of equipment or source operations shall be subject to the provisions of this subchapter:

4. The amount, type and higher heating value of the fuel(s) consumed over the subject time period;

5. The amount of NO_x (expressed in pounds or tons) emitted by each averaging unit over the subject time period;

6. Whether the amount exceeds the allowable rate for the averaging unit specified under (b)4 above;

7. The sum of the amounts listed in (g)5 above for all averaging units;

8. The allowable NO_x emissions calculated pursuant to (d)2 above; and

9. Any other information required to be maintained as a condition of approval granted pursuant to (b) above.

(h) The owner or operator of a designated set shall submit quarterly reports to the Department on April 30, July 30, October 30 and January 30 of each year, for the immediately preceding calendar quarter ending March 31, June 30, September 30 and December 31, respectively. The owner or operator shall submit the report to the Department at the address set forth in (k) below. The owner or operator shall include the following information in the quarterly report:

1. The information listed in (g)2 and 3 above;

2. In the report for the quarter ending March 31, the compliance determination required under (f)2 above for each 30-day period ending on a calendar day within the quarter;

3. In the report for the quarter ending June 30:

i. The compliance determination required under (f)2 above for each 30-day period ending on a calendar day from April 1 through May 14, inclusive; and

ii. The compliance determination required under (f)1 above for each calendar day from May 15 through June 30, inclusive;

4. In the report for the quarter ending September 30, the compliance determination required under (f)1 above for each calendar day from July 1 through September 30; and

5. In the report for the quarter ending December 31, the compliance determination required under (f)2 above for each 30-day period ending on a calendar day within the quarter.

(i) If the emissions from the designated set or from any averaging unit do not comply with (d) above for any time period described in (f) above, the owner or operator of the designated set shall deliver (as opposed to send) written notice of the non-compliance to the Department within two working days after the date on which the owner or operator was required to calculate compliance under (f) above. The owner or operator shall provide the notice in writing to the Regional Enforcement Officer, at the address specified at N.J.A.C. 7:27-19.3(i) for the county in which the averaging

unit with the highest NO_x emission rate is located. The owner or operator shall include the following information in the notification:

1. The name of the owner or operator;

2. The name and telephone number of the person specified in (b)7 above;

3. All information required to be recorded under (h) above;

4. A statement of the reason(s) for the non-compliance, if known; and

5. Certification of the notification, in accordance with N.J.A.C. 7:27-1.39.

(j) An owner or operator of an averaging unit which cannot be operated due to sudden and reasonably unforeseeable circumstances beyond the control of the owner or operator, and for which the NO_x emission rate specified under (b)4 above is less than the applicable maximum allowable NO_x emission rate under N.J.A.C. 7:27-19.4, 19.5, 19.7, 19.8, or 19.10 shall take the following actions:

1. Within two working days after the averaging unit ceased operating, deliver (as opposed to send) written preliminary notice to the Department. This preliminary notice shall be followed up within 30 calendar days of the occurrence of the incident certifying the information in accordance with N.J.A.C. 7:27-1.39. In the written notice, the owner or operator shall identify the unit which is or was not operating, and state why it is or was not operating;

2. If circumstances beyond the control of the owner or operator make it impracticable either to repair the averaging unit within 15 calendar days after it ceased operating, or to comply with the averaging plan without operating the unit (for example, through reducing the operations of another unit and purchasing electric power from another source), include in the notice described in (j)1 above an explanation of those circumstances and an estimate of the time required to repair the averaging unit; and

3. In determining whether the designated set is in compliance with (d)2 above, assume that the NO_x emissions and heat input for the non-operational averaging unit for each of the first 15 days of non-operation (or such longer period, not to exceed six months, as the Department determines is necessary to repair the averaging unit based on the information submitted under (j)2 above) are equal to the actual emissions and heat input for that unit on the most recent comparable demand day. For each day after the end of the period described above, assume that the NO_x emissions and heat input for the non-operational averaging unit are zero.

(k) A person required to submit a quarterly report to the Department under (h) above shall send the quarterly report to the applicable address listed below:

1. If the averaging unit with the highest NO_x emission limit is located in Mercer County, Middlesex County, Monmouth County, Ocean County, or Union County, the person shall send the quarterly report to:

Department of Environmental Protection
 Central Regional Office
 Air Compliance & Enforcement
 Horizon Center
 Rt. 130, Building 300
 P.O. Box 407
 Robbinsville, NJ 08625-0407

2. If the averaging unit with the highest NO_x emission limit is located in Bergen County, Essex County, Hudson County, Hunterdon County, Morris County, Passaic County, Somerset County, Sussex County or Warren County, the person shall send the quarterly report to:

Department of Environmental Protection
 Northern Regional Office
 Air Compliance & Enforcement
 7 Ridgedale Avenue
 Cedar Knolls, NJ 07927

3. If the averaging unit with the highest NO_x emission limit is located in Atlantic County, Burlington County, Camden County, Cape May County, Cumberland County, Gloucester County or Salem County, the person shall send the quarterly report to:

Department of Environmental Protection
 Southern Regional Office
 Air Compliance & Enforcement
 One Port Center
 2 Riverside Drive, Suite 201
 Camden, NJ 08103

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.1996 d.303, effective July 1, 1996 (operative August 2, 1996).

See: 28 N.J.R. 1147(b), 28 N.J.R. 3414(a).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

In (i)5 and (j)1, changed N.J.A.C. references.

Amended by R.2000 d.204, effective May 15, 2000 (operative June 6, 2000).

See: 31 N.J.R. 1671(a), 32 N.J.R. 1808(a).

In (b)6ii and (d)2ii, substituted references to September 30 for references to September 15 and substituted references to October 1 for references to September 16; in (f), substituted a reference to September 30 for a reference to September 15 in 1, and substituted a reference to October 1 for a reference to September 16 in 2; and rewrote (h)4.

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

In (b)1, deleted "utility", added "serving an electric generating unit" and substituted "combustion" for "gas"; in (h), substituted "(k)" for "(l)"; added (k).

7:27-19.7 Industrial/commercial/institutional boilers and other indirect heat exchangers

(a) Beginning in calendar year 1995, and until March 7, 2007, the owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 20 million but less than 50 million BTUs per hour shall:

1. Annually adjust the boiler's combustion process in accordance with N.J.A.C. 7:27-19.16, each calendar year; or

2. Cause the boiler or other indirect heat exchanger to emit NO_x at a rate no greater than the applicable maximum allowable NO_x emission rate specified in Table 5 below, and establish compliance with this requirement by continuous emissions monitoring pursuant to N.J.A.C. 7:27-19.15(a)1.

(b) Beginning on May 31, 1995, and until March 7, 2007, the owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 50 million but less than 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NO_x at a rate no greater than the applicable maximum allowable NO_x emission rate specified in Table 5 below, and comply with the requirements of (e) below.

TABLE 5
Maximum Allowable NO_x Emission Rates for Industrial/Commercial/Institutional Boilers and other Indirect Heat Exchangers
 Subject to N.J.A.C. 7:27-19.7(b)
 (pounds per million BTU)

Firing Method	Firing Method		
	Tangential	Face	Cyclone
Fuel/Boiler Type			
Coal—Wet Bottom	1.0	1.0	0.55
Coal—Dry Bottom	0.38	0.43	0.55
# 2 Fuel Oil	0.12	0.12	0.12
Other Liquid Fuels	0.3	0.3	0.3
Refinery fuel gas	0.20	0.20	N/A
Natural Gas	0.1	0.1	0.1

(c) Beginning on May 31, 1995, and until March 7, 2007, the owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 100 million BTUs per hour shall cause the boiler or other indirect heat exchanger to emit NO_x at a rate no greater than the applicable maximum allowable NO_x emission rate specified in Table 6 below, and comply with the applicable requirements of (d) or (e) below.

website at www.state.nj.us/dep/bts.html, must be used to establish the baseline emission rate prior to modification. The engine must have had the combustion processes adjusted using the procedures at N.J.A.C. 7:27-19.16 prior to the stack test. The protocol and test results must be approved by the Bureau of Technical Services (BTS).

(f) The owner or operator of any stationary reciprocating engine that has a maximum rated power output of at least 37 kW or greater, used for generating electricity, and whether or not it is located at a major NO_x facility, shall adjust the engine's combustion process in accordance with the procedures set forth at N.J.A.C. 7:27-19.16 and the following schedule:

1. For stationary reciprocating engine that has a maximum rated power output of at least 37 kW but less than 370 kW used for generating electricity, according to manufacturer's recommended maintenance schedules beginning in 2007: or

2. For stationary reciprocating engine that has a maximum rated power output of at least 370 kW or greater, or required prior to November 7, 2005 to adjust the combustion process, according to manufacturer's recommended maintenance schedules.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

In rule heading, substituted "reciprocating" for "internal combustion"; rewrote (a) through (d); added (e) and (f).

7:27-19.9 Asphalt plants

(a) The owner or operator of a batch type or drum mix asphalt plant shall cause it to emit NO_x at a rate no greater than 200 ppmvd at seven percent O₂.

(b) At least annually, the owner or operator of an asphalt plant subject to (a) above shall adjust the combustion process of the aggregate dryer in accordance with N.J.A.C. 7:27-19.16.

(c) In lieu of complying with a NO_x emission limit under (a) above, the owner or operator of an asphalt plant may comply with one of the following, or with a combination of (c)1 and 3 below:

1. An emissions averaging plan approved by the Department pursuant to N.J.A.C. 7:27-19.6 and 19.14, which includes the combustion source in question as an averaging unit;

2. An alternative maximum allowable emission rate for the unit, approved by the Department pursuant to N.J.A.C. 7:27-19.13;

3. A seasonal fuel switching plan for the unit, approved by the Department pursuant to N.J.A.C. 7:27-19.14 and 19.20; or

4. A plan for phased compliance for the unit, approved by the Department pursuant to N.J.A.C. 7:27-19.14 and N.J.A.C. 7:27-19.21, 19.22 or 19.23.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

In (a), deleted "which has the potential to emit at least 25 tons per year of NO_x".

7:27-19.10 Glass manufacturing furnaces

(a) The owner or operator of any commercial container glass manufacturing furnace listed in N.J.A.C. 7:27-19.2(b)6 shall cause the furnace to emit no more than 5.5 pounds of NO_x per ton of glass removed from the furnace.

(b) The owner or operator of any specialty container glass manufacturing furnace listed in N.J.A.C. 7:27-19.2(b)7 shall cause the furnace to emit no more than 11 pounds of NO_x per ton of glass removed from the furnace.

(c) The owner or operator of a borosilicate recipe glass manufacturing furnace listed in N.J.A.C. 7:27-19.2(b)8 shall:

1. By January 1, 1994 determine the baseline NO_x emission rate from the furnace by either:

i. Conducting source emissions testing in accordance with N.J.A.C. 7:27-19.17; or

ii. Using the results of source emissions testing conducted at any time after November 15, 1990, provided that the procedures used for the source emission testing meet the requirements of N.J.A.C. 7:27-19.17;

2. By July 1, 1994, submit one of the following to the Department:

i. A written plan detailing how the NO_x emission rate from the furnace will be reduced by 30 percent from the baseline emission rate measured in (c)1 above; or

ii. A demonstration that the NO_x emissions from the furnace, as measured by the source emissions testing performed under (c)1 above, are at least 30 percent less than the uncontrolled NO_x emissions from the furnace as of a date no earlier than November 15, 1990;

3. Before the date specified in (d) below, implement the plan detailed in (c)2i above (unless the owner or operator has submitted the demonstration described in (c)2ii above); and

4. Beginning on the date specified in (d) below, cause the furnace to emit NO_x at a rate no greater than the reduced rate described in (c)2i above, or to continue to

emit NO_x at a rate no greater than the rate demonstrated under (c)2ii above.

(d) A glass manufacturing furnace subject to this subchapter shall comply with the requirements of (a), (b), (c)3 and (c)4 above beginning on the earlier of the following:

1. The first date after January 23, 1994 on which rebricking of the furnace is completed; or
2. May 1, 1997.

(e) Beginning in calendar year 1994, the owner or operator of a glass manufacturing furnace subject to this subchapter shall adjust the combustion process of the furnace in accordance with N.J.A.C. 7:27-19.16 before May 1 of each calendar year.

(f) In lieu of complying with a NO_x emission limit under (a), (b) or (c) above, the owner or operator of a glass manufacturing furnace may comply with one of the following, or with a combination of (f)1 and 3 below:

1. An emissions averaging plan approved by the Department pursuant to N.J.A.C. 7:27-19.6 and 19.14, which includes the combustion source in question as an averaging unit;
2. An alternative maximum allowable emission rate for the furnace, approved by the Department pursuant to N.J.A.C. 7:27-19.13;
3. A seasonal fuel switching plan for the furnace, approved by the Department pursuant to N.J.A.C. 7:27-19.14 and 19.20; or
4. A plan for phased compliance for the furnace, approved by the Department pursuant to N.J.A.C. 7:27-19.14 and N.J.A.C. 7:27-19.21, 19.22 or 19.23.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

7:27-19.11 Emergency generators - recordkeeping

(a) The owner or operator of an emergency generator with a maximum rated output of 37 kW, shall maintain on site and record in a logbook or computer data system, the following information:

1. Once per month, the total operating time from the generator's hour meter;
2. For each time the emergency generator is specifically operated for testing or maintenance:
 - i. The reason for its operation;
 - ii. The date(s) of operation and the start up and shut down time;
 - iii. The total operating time for testing or maintenance based on the generator's hour meter; and
 - iv. The name of the operator; and

3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction.

(b) The owner or operator of an emergency generator shall maintain the records required under (a) above for a period of no less than five years after the record was made and shall make the records readily available to the Department or the EPA upon request.

New Rule by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).
See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

7:27-19.12 (Reserved)

7:27-19.13 Facility-specific NO_x emissions limits

(a) This section establishes procedures and standards for the establishment of facility-specific NO_x emissions limits in the following circumstances:

1. If a major NO_x facility contains any source operation or item of equipment of a category not listed in N.J.A.C. 7:27-19.2(b) or (c) (that is, any source operation or item of equipment other than a boiler serving an electric generating unit, an industrial/commercial/institutional boiler, a stationary combustion turbine, a stationary reciprocating engine, a rotary dryer located at an asphalt plant, or a glass manufacturing furnace) that has the potential to emit more than 10 tons of NO_x per year, except as provided in (p) below; or

2. If the owner or operator of a source operation or item of equipment listed in N.J.A.C. 7:27-19.2(b) or (c) seeks approval of an alternative maximum allowable emission rate, which would apply to the equipment or source operation in lieu of the emission limit that would otherwise apply under this subchapter.

(b) The owner or operator of a major NO_x facility described in (a)1 above shall obtain the Department's written approval of a facility-specific NO_x control plan in accordance with this section. For any facility, equipment or source operation that is in operation prior to January 23, 1994, the owner or operator shall submit to the Department in writing a proposed NO_x control plan for the facility by April 23, 1994 or by a later date approved by the Department pursuant to N.J.A.C. 7:27-19.3(e). For any facility, equipment or source operation that is subject to a NO_x emissions limit under this subchapter as set forth at N.J.A.C. 7:27-19.5(d) 19.7(h), or 19.8(e), the owner or operator shall submit to the Department in writing a proposed NO_x control plan for the facility by February 7, 2006. In the proposed NO_x control plan, the owner or operator shall include:

1. A list of each source operation or item of equipment at the facility that has the potential to emit more than 10 tons of NO_x per year and is not listed in N.J.A.C. 7:27-19.2(b) or (c). In the list, the owner or operator shall briefly

(m) A person may request an adjudicatory hearing in accordance with the procedure at N.J.A.C. 7:27-1.32, if:

1. The Department denied the person's application for approval of a plan or alternative rate under this section;
2. The person seeks to contest one or more conditions of the Department's approval imposed under (i) above; or
3. The Department has revoked the person's approval pursuant to (l)1, 2 or 4 above.

(n) The owner or operator of a facility described in (a)1 above shall implement the NO_x control plan (including, without limitation, complying with the emission limits set forth in the plan) approved by the Department by May 31, 1995, or by March 7, 2007 for any facility, equipment or source operation that is subject to a NO_x emissions limit under this subchapter as set forth at N.J.A.C. 7:27-19.5(d), 19.7(h), or 19.8(e), and maintain compliance with the plan and all conditions of the Department's approval thereafter. The owner or operator of a source operation or item of equipment for which the Department has approved an alternative maximum allowable emission rate shall cause it to emit NO_x at a rate no greater than the approved alternative rate.

(o) The owner or operator submitting a proposed NO_x control plan or request for an alternative maximum allowable emission rate shall send it to the Department at the following address:

Chief, Bureau of Preconstruction Permitting
Division of Air Quality
Department of Environmental Protection
401 East State Street
PO Box 027
Trenton, New Jersey 08625-0027

(p) A major NO_x facility satisfies the requirements of this section if its only equipment or source operations with the potential to emit 10 tons or more of NO_x per year are thermal oxidizers. The owner or operator of such a facility is not required to submit a facility-specific NO_x control plan for the facility.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.1996 d.303, effective July 1, 1996 (operative August 2, 1996).

See: 28 N.J.R. 1147(b), 28 N.J.R. 3414(a).

In (i) provided for approval of alternative emission rates.

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

In (d)9, changed N.J.A.C. reference; in (j)2 and (k)2ii, inserted "or 22, N.J.A.C. 7:1K-1.5"; and in (m), changed N.J.A.C. reference in the introductory paragraph.

Amended by R.2000 d.204, effective May 15, 2000 (operative June 6, 2000).

See: 31 N.J.R. 1671(a), 32 N.J.R. 1808(a).

In (i), inserted "application for an" following "of any", and substituted "submitted to the Department pursuant to" for "issued, extended or renewed under" following "rate" in the second sentence.

Amended by R.2004 d.129, effective April 5, 2004 (operative April 25, 2004).

See: 35 N.J.R. 3486(a), 36 N.J.R. 1791(a).

In (i), deleted the last sentence.

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Rewrote (a)1; added "or (c)" and substituted "that" for "which" in (a)2; in (b), rewrote introductory paragraph; in (b)1, substituted "that" for "which" and added "or (c)"; rewrote (n); rewrote address in (o); deleted "non-utility boilers or" in (p).

7:27-19.14 Procedures for obtaining approvals under this subchapter

(a) This section establishes the procedure for obtaining any of the following from the Department:

1. An exemption from this subchapter, pursuant to N.J.A.C. 7:27-19.2(f);
2. Approval of a fuel switching plan under N.J.A.C. 7:27-19.20, and authorization to operate under the plan;
3. Approval of a plan for phased compliance under N.J.A.C. 7:27-19.21, 19.22 or 19.23, and authorization to operate under the plan;
4. Approval of compliance with the requirements of N.J.A.C. 7:27-19.5(c) for a stationary combustion turbine;
5. Approval of an emissions averaging plan under N.J.A.C. 7:27-19.6, and authorization to operate under the plan; or
6. Approval of an alternative monitoring plan pursuant to N.J.A.C. 7:27-19.18(b).

(b) The person seeking an approval listed in (a) above shall submit a written application to the Department at the following address:

Chief, Bureau of Preconstruction Permitting
Division of Air Quality
Department of Environmental Protection
401 East State Street
PO Box 027
Trenton, NJ 08625-0027

(c) The person seeking the approval under (a) above shall include the following information in the application submitted under (b) above:

1. Any information required under N.J.A.C. 7:27-19.2(f), 19.5(c), 19.6(b), 19.18(c), 19.20 or 19.21, as applicable;
2. The name, address and telephone number of the owner and the operator of the equipment or source operation which is the subject of the application;
3. The street address of the facility at which the subject equipment or source operation is located;

4. The type of equipment or source operation which is the subject of the application, and its make, model and serial number;

5. For requests submitted under N.J.A.C. 7:27-19.5(c), a proposed maximum allowable emission rate for the subject stationary combustion turbine;

6. A certification of the application, satisfying the requirements of N.J.A.C. 7:27-1.39; and

7. Any other information which the Department requests which is reasonably necessary to enable it to determine whether the application satisfies the requirements of (e) below.

(d) Within 30 days after receiving an application, the Department shall notify the applicant in writing whether the application includes all of the information required under (c) above. If the application is incomplete:

1. The Department shall include in the notice a list of the deficiencies, a statement of the additional information required to make the application complete, and the time by which the applicant must submit a complete application;

2. The Department may refrain from reviewing the substance of the application (or any part thereof) until it is complete;

3. The applicant shall submit a complete application within the time stated in the Department's notification; and

4. The Department may reject the application if the applicant fails to submit a complete application within the time stated in the Department's notification.

(e) Within six months after receiving a complete application, the Department shall grant its approval under this section only if:

1. The applicant satisfies all eligibility requirements set forth in N.J.A.C. 7:27-19.5(c), 19.6(c), 19.20, or 19.21 as applicable; and

2. Any significant net emission of any criteria pollutant (as determined pursuant to N.J.A.C. 7:27-19.17 or 19.18, as applicable) do not cause or significantly contribute to a violation of a National Ambient Air Quality Standard as determined pursuant to N.J.A.C. 7:27-18, an exceedance of a Federal Prevention of Significant Deterioration increment if applicable, or any violation of the Clean Air Act, 42 U.S.C. 7401 et seq. A significant net emission increase of any criteria pollutant, and the determination of when such an increase causes or significantly contributes to an exceedance of a National Ambient Air Quality Standard, shall be determined pursuant to N.J.A.C. 7:27-18.

(f) As a condition of an approval issued under this section (other than an approval of an exemption pursuant to N.J.A.C. 7:27-19.2(f)), the Department may impose requirements upon the operation of the subject equipment or source operation

necessary to minimize any adverse impact upon human health, welfare and the environment.

(g) An approval issued under this section is void upon the alteration of equipment or source operation which is the subject of the approval unless:

1. The owner or operator applies for and obtains the Department's approval of a revised approval pursuant to this section, reflecting the proposed alteration; and

2. Before altering the equipment or source operation subject to the approval, the owner or operator applies for and obtains such permits and certificates as are required under N.J.A.C. 7:27-8 or 22, N.J.A.C. 7:1K-1.5, and any other applicable law or regulation.

(h) The Department may revoke an approval issued under this section, by written notice to the holder of the approval, if:

1. Any material condition of the approval is violated;

2. The Department determines that its decision to grant the approval was materially affected by a misstatement or omission of fact in the request for the approval or any supporting documentation;

3. The Department determines that as a result of a change in circumstances since the date of the approval, the subject equipment or source operations are able to comply with the applicable section of this subchapter. In revoking an approval pursuant to this paragraph, the Department shall specify an effective date for the revocation which provides the owner or operator with a reasonable amount of time to comply with the applicable section of this subchapter; or

4. The Department determines that continued use of the subject equipment or source operation pursuant to the approval poses a potential threat to public health, welfare or the environment.

(i) A person may request an adjudicatory hearing in accordance with the procedure at N.J.A.C. 7:27-1.32, if:

1. The Department has denied the person's application for an approval under this section;

2. The person seeks to contest conditions of the approval imposed under (f) above; or

3. The Department has revoked the person's approval pursuant to (h) above.

(j) If an item of equipment or a source operation has exceeded the maximum allowable emission rate applicable under this subchapter without an approval pursuant to this section, it shall not be a defense to an enforcement action that an application for an approval is pending.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

In (c)6, changed N.J.A.C. reference; in (g)2, inserted "or 22, N.J.A.C. 7:1K-1.5,"; and in (i), changed N.J.A.C. reference in the introductory paragraph.

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Substituted "combustion" for "gas" in (a)4 and (c)5; rewrote address in (b).

7:27-19.15 Procedures and deadlines for demonstrating compliance

(a) The owner or operator of equipment or a source operation subject to an emission limit under this subchapter shall demonstrate compliance with the emission limit as follows:

1. If a continuous emissions monitoring system has been installed on the equipment or source operation, or if any other provision of this subchapter requires emissions from the equipment or source operation to be monitored by a continuous emissions monitoring system under N.J.A.C. 7:27-19.18, the owner or operator shall calculate the average NO_x emission rate using the data from such a system for the NO_x concentration in the flue gas and either the flue gas flow rate or the fuel flow rate. To calculate the emission rate using the NO_x concentration and fuel flow rate, the owner or operator shall use the conversion procedure set forth in the Acid Rain regulations at 40 CFR 75, Appendix F, or an alternative procedure that the Department determines will yield the same result. Compliance with the limit shall be based upon the average of emissions:

- i. Between May 1 and September 30, over each calendar day; and
- ii. From October 1 through April 30 of the following year, over the 30-day period ending on each such day; or

2. If no continuous emissions monitoring system has been or is required to be installed on the equipment or source operation, compliance with the limit shall be based upon the average of three one-hour tests, each performed over a consecutive 60-minute period specified by the Department, and performed in compliance with N.J.A.C. 7:27-19.17. Any NO_x testing conducted pursuant to this section shall be conducted concurrently with CO testing. The applicable NO_x emission limits in this subchapter will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.8, 16.9, 16.10, 16.11, or the permit limit for CO, whichever is more stringent, is also met.

(b) For any equipment or source operation subject to this subchapter that was in operation before January 1, 1995, the owner or operator shall demonstrate compliance with this subchapter in accordance with (a)1 or 2 above by May 31,

1996, and thereafter at the frequency set forth in the permit for such equipment or source operation, except that the owner or operator of any facility, equipment or source operation that is subject to a NO_x emissions limit under this subchapter as set forth at N.J.A.C. 7:27-19.5(d), 19.7(h), or 19.8(e), and that is in operation before November 7, 2005 shall demonstrate compliance with this subchapter in accordance with (a)1 or 2 above by March 7, 2008. Test results that demonstrate compliance with a new requirement within the five years preceding November 7, 2005 shall be accepted by the Department as satisfying this test requirement, if the testing and test report were reviewed by the Department and found satisfactory.

(c) For any equipment or source operation subject to this subchapter which commences operations or is altered after January 1, 1995, the owner or operator shall demonstrate compliance with this subchapter in accordance with (a)1 or 2 above within 180 days from the date on which the source commences operation, and thereafter at the frequency set forth in the permit for such equipment or source operation.

(d) An exceedance of any applicable NO_x emission limit set forth in this subchapter, determined through testing or monitoring performed pursuant to (a), (b), or (c) above or otherwise, is a violation of this subchapter.

Amended by R.1995 d.214, effective April 17, 1995 (operative May 23, 1995).

See: 26 N.J.R. 3298(a), 27 N.J.R. 1581(a).

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

In (a)1, deleted "part" following "40 CFR"; revised the deadline dates in (a)1i and ii; in (a)2, added last two sentences; rewrote (b).

7:27-19.16 Adjusting combustion processes

(a) When any provision of this subchapter requires the adjustment of a combustion process for any equipment or source operation, other than stationary combustion turbines and reciprocating engines, the owner or operator of the equipment or source operation shall:

1. Inspect the burner, and clean or replace any components of the burner as necessary;
2. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern consistent with the manufacturer's specifications;
3. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly;
4. Minimize total emissions of NO_x and CO consistent with the manufacturer's specifications;
5. Measure the concentrations in the effluent stream of NO_x, CO and O₂ in ppmvd, before and after the adjustment is made; and

6. Convert the emission values of the NO_x, CO and O₂ concentrations measured pursuant to (a)5 above to pounds per million BTU (lb/MM BTU) according to the following formula:

$$\text{lb/MM BTU} = \text{ppmvd} \times \text{MW} \times \text{F dry factor} \times \text{O}_2 \text{ correction factor} \div 387,000,000$$

Where:

ppmvd is the concentration in parts per million by volume, dry basis, of NO_x or CO

MW is the Molecular Weight for:

NO_x = 46 lb/lb-mole; CO = 28 lb/lb-mole

F dry factor for:

Natural gas = 8,710 dscf/MM BTU

Residual or fuel oil = 9,190 dscf/MM BTU

O₂ correction factor: (20.9%) ÷ (20.9% - O₂ measured)

O₂ measured is percent oxygen on a dry basis.

(b) The owner or operator of the equipment or source operation adjusted pursuant to (a) above shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each adjustment:

1. The date of the adjustment and the times at which it began and ended;
2. The name, title and affiliation of the person who made the adjustment;
3. The NO_x and CO concentrations in the effluent stream, in ppmvd, before and after each actual adjustment was made;
4. The concentration of O₂ (in percent dry basis) at which the CO and NO_x concentrations were measured pursuant to (a)5 above;
5. A description of any corrective action taken;
6. Results from any subsequent tests performed after taking any corrective action, including concentrations and converted emission values in pounds per million BTU (lb/MM BTU);
7. The type and amount of fuel used over the 12 months prior to the annual adjustment; and
8. Any other information which the Department or the EPA has required as a condition of approval of any permit or certificate issued for the equipment or source operation.

(c) The owner or operator shall ensure that an annual adjustment combustion process report is submitted

electronically to the Department according to the schedule listed in (d) below, and in the format the Department specifies at its website. The report shall contain the following information:

1. The concentrations of NO_x and CO in the effluent stream in ppmvd, and O₂ in percent dry basis, measured before and after the adjustment of the combustion process pursuant to (a)5 above;
2. The converted emission values in lb/MM BTU for the measurements taken before and after the adjustment of the combustion process;
3. A description of any corrective actions taken as a part of the combustion adjustment; and
4. The type and amount of fuel used over the 12 months prior to the annual adjustment.

(d) The owner or operator of an industrial/commercial/institutional boiler or other indirect heat exchanger shall ensure that the annual adjustment combustion process report required in (c) above is submitted to the Department within 45 days after the adjustment of the combustion process is completed, based on the gross heat input of the boiler or heat exchanger as follows:

1. For an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least five million but less than 10 million BTU per hour, beginning in 2012;
2. For an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input rate of at least 10 million but less than 20 million BTU per hour, beginning in 2010;
3. For an industrial/commercial/institutional boiler or other indirect heat exchanger with a maximum gross heat input of rate at least 20 million BTU per hour or greater, beginning in 2009;

(e) The owner or operator of the adjusted equipment or source operation shall ensure that the operating parameter settings are established and recorded after the combustion process is adjusted and that the adjusted equipment or source operation is maintained to operate consistent with the annual adjustment.

(f) An exceedance of an emission limit that occurs during an adjustment of the combustion process under (a) above or (g) below is not a violation of this subchapter if it occurs as a result of the adjustment. After the combustion adjustment has been completed, the maximum emission rate of any contaminant shall not exceed the maximum allowable emission rate applicable under this subchapter or under an operating permit issued pursuant to N.J.A.C. 7:27-22 or an applicable certificate issued pursuant to N.J.A.C. 7:27-8.

(g) The owner or operator of a stationary combustion turbine or reciprocating engine shall ensure that the

adjustment of the combustion process is carried out according to the manufacturer's recommended procedures and maintenance schedules.

(h) The owner or operator of a stationary combustion turbine or reciprocating engine adjusted pursuant to (g) above shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each adjustment:

1. The date of the adjustment and the times at which it began and ended;
2. The name, title, and affiliation of the person who performed the procedure and adjustment;
3. The type of procedure and maintenance performed;
4. The concentrations of NO_x, CO and O₂, measured before and after the adjustment was made; and
5. The type and amount of fuel use over the 12 months prior to the adjustment.

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998).

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

In (b), inserted "an operating permit issued pursuant to N.J.A.C. 7:27-22 or" following "under" in the last sentence.

Amended by R.2005 d.343, effective October 17, 2005 (operative date of November 7, 2005).

See: 36 N.J.R. 4228(a), 37 N.J.R. 3976(a).

Rewrote the section.

7:27-19.17 Source emissions testing

(a) Upon request by the Department or EPA, the owner or operator of any equipment or source operation subject to this subchapter shall:

1. Conduct tests to determine the emissions from such equipment or source operation to determine the nature and quantity of VOC, NO_x, or CO being emitted into the outdoor atmosphere;
2. Provide information concerning the location, rate, duration, concentration, and properties of the emissions of NO_x, CO or VOC from such equipment or source operations, and such other information as may be reasonably necessary to assess air emissions;
3. Provide information concerning the rate at which the equipment or source operation is combusting fuel during tests conducted under (a)1 above, and the maximum gross heat input value of the equipment or source operation; and
4. Provide the log prepared under (e) below, or any part thereof requested by EPA or the Department.

(b) Upon the Department's request, the owner or operator of any equipment or source operation subject to this subchapter shall provide the Department with temporary or permanent sampling facilities satisfying the requirements of

N.J.A.C. 7:27B-1.4. The owner or operator shall construct such facilities in accordance with all applicable laws, ordinances and regulations, including those which regulate construction practices.

(c) During any testing conducted pursuant to this section, the equipment or source operation, and all components connected, attached to, or serving the equipment, shall be used and operated under normal routine operating conditions, under maximum capacity operating conditions, or under such other conditions within the capacity of the equipment as the Department or EPA requests.

(d) A person conducting testing pursuant to this section shall use the test method which the Department specifies, based upon the circumstances specific to the facility or to the equipment or source operation being tested. The Department shall specify one of the following methods:

1. The methods set forth at 40 CFR 60, Appendix A, method 7E; or
2. Any other method which EPA and the Department have approved in advance in writing. If EPA approves a method, and the Department determines that the method yields results at least as consistent as the appropriate method listed under (d)1 above, and which has no greater tendency to understate emissions, the Department shall approve the method.

(e) The owner or operator of the tested equipment or source operation shall record any test data collected under this section, and maintain it for at least five years after the date on which the testing was conducted.

7:27-19.18 Continuous emissions monitoring

(a) Any person required to install a continuous emissions monitoring system under this subchapter shall:

1. Obtain a system approved in advance by the Department. The Department shall approve a system if its design and specifications satisfy the requirements established by EPA at 40 CFR Part 60, Appendix B, Performance Specification Tests No. 2, and 40 CFR Part 60, Appendix F, Quality Assurance Requirements;
2. Install the system in compliance with the EPA regulations listed in (a)1 above, and in compliance with the manufacturer's specifications;
3. Conduct performance tests of the system in accordance with the EPA regulations listed in (a)1 above, and obtain confirmation from the Department that the system satisfies the performance requirements of those regulations;
4. Install and operate the system in compliance with the manufacturer's specifications; and

5. Continuously monitor and record NO_x emissions from the equipment or source operation subject to the monitoring requirement.

(b) A person required under this subchapter to install continuous emissions monitoring systems on equipment or source operations of a given type at a facility may satisfy this requirement without installing a continuous emissions monitor on every unit of such equipment or source operations at the facility, by using an alternative monitoring methodology set forth in an alternative monitoring plan, approved in advance in writing by the Department, which is as reliable for demonstrating compliance for that unit as a continuous emissions monitoring system which satisfies the criteria in (a) above would be.

(c) A person seeking approval of an alternative monitoring plan pursuant to (b) above shall submit a written application to the Department. The applicant shall include in the application all of the information required under N.J.A.C. 7:27-19.14(c)2, 3, 4 and 6. The applicant shall include in the application for the alternative monitoring plan the following information for each item of equipment or source operation for which a continuous emissions monitor is required under this subchapter and to which the alternative monitoring plan would apply:

1. The make and model of each unit of equipment or source operation;
2. The facility at which the equipment or source operation is used;
3. A description of the conditions under which the equipment or source operation is used;
4. The results of all source emissions testing conducted within the five years preceding the application for each unit of equipment or source operation listed in (c)1 above;
5. A statement that the applicant proposes to install or not install a continuous emissions monitor which satisfies the criteria set forth in (a) above;
6. A demonstration that the monitoring methodology set forth in the alternative monitoring plan is as reliable for demonstrating compliance as a continuous emissions monitor which satisfies the criteria listed in (a)1 above; and
7. Any other information which the Department requests which is reasonably necessary to enable it to determine whether the application satisfies the requirements of (e) below.

(d) Within 30 days after receiving an application, the Department shall notify the applicant in writing whether the application includes all of the information required under (c) above. If the application is incomplete:

1. The Department shall include in the notice a list of the deficiencies, a statement of the additional information

required to make the application complete, and the time by which the applicant must submit a complete application;

2. The Department may refrain from reviewing the substance of the application (or any part thereof) until it is complete;

3. The applicant shall submit a complete proposed plan or request within the time stated in the Department's notification; and

4. The Department may reject the application if the applicant fails to submit a complete application within the time stated in the Department's notification.

(e) The Department shall approve an alternative monitoring plan only if:

1. The proposed alternative monitoring methodology is equivalent for purposes of reliably determining compliance to a continuous emissions monitor which satisfies the criteria listed in (a)1 above by the following:

i. For each item of equipment or source operation on which a continuous emissions monitoring system is not to be installed, the owner or operator identifies another item of equipment or source operation at the facility which is:

- (A) Of the same make and model;
- (B) Is used under substantially the same conditions;
- (C) Will have a continuous emissions monitoring system installed on it; and
- (D) Has an emissions rate which will not differ significantly from the emission rate from the corresponding equipment or source operation on which the continuous emissions monitoring system is to be installed; or

ii. For each item of equipment or source operation which a continuous emissions monitor is not to be installed, the owner or operator proposes a monitoring protocol for that equipment or source operation that provides quality-assured, representative monitoring data that can be used to determine continuous compliance consistent with EPA's proposed Enhanced Monitoring guidance, 40 CFR 64 (Federal Register Vol. 58, No. 203, p. 54648-54699). The proposed monitoring protocol should take into consideration site specific factors such as:

- (A) Control system design;
- (B) Operating processes at the facility;
- (C) Demonstrated margin of compliance;
- (D) The potential variability of emissions; and