

7:27-8.9 Environmental improvement pilot tests

(a) A person may seek approval for a preconstruction permit and certificate for an environmental improvement

pilot test, as defined at N.J.A.C. 7:27-8.1, of air pollution control equipment or other environmental clean-up equipment under this section.

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(b) An applicant for an environmental improvement pilot test shall ensure that the equipment shall comply with all applicable requirements, and that the activities shall not cause impacts outside the property boundary.

(c) An applicant for an environmental improvement pilot test approval shall submit the application on a form obtained from the Department at the address in N.J.A.C. 7:27-8.4(b). The application shall meet the requirements of N.J.A.C. 7:27-8.4, and shall include information regarding the planned sampling, analysis, equipment or processes, potential environmental impacts, the length of time requested for the test, projected emission rates, and any other information necessary for the Department to ensure that the proposed activities fit within the definition of an environmental improvement pilot test at N.J.A.C. 7:27-8.1.

(d) The Department shall take final action on the application within 30 days of its receipt of a complete application.

(e) The Department shall determine the term of a permit and certificate for an environmental improvement pilot test approval on a case-by-case basis, but in no case shall the approval last longer than 90 days from the start of the actions covered by the environmental improvement pilot test approval. The approval may be renewed by application to the Department. The Department shall renew the environmental improvement pilot test approval only if the applicant demonstrates that continued testing of the equipment or process is needed, and that the proposed activities remain within the definition of an environmental improvement pilot test at N.J.A.C. 7:27-8.1.

(f) The fee for an environmental improvement pilot test is set forth at N.J.A.C. 7:27-8.6.

(g) The holder of an environmental improvement pilot test approval shall keep records of product run time, emission testing performed, and other data relevant to the emission of air contaminants. These records shall be kept for a minimum of five years, and any relevant data obtained must be submitted with any future application covering the source.

(h) Upon completion of the environmental improvement pilot test, the equipment involved shall cease operating, or shall return to operating under the conditions of the existing permit, if any. An environmental improvement pilot test approval does not constitute Departmental acceptance of equipment or a process for future production purposes.

New Rule, 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).

Former N.J.A.C. 7:27-8.9, Reporting requirements, recodified to N.J.A.C. 7:27-8.15.

7:27-8.10 Public comment

(a) The Department shall seek comments from the general public prior to making any final decision on those applications for which such comment is required by State or Federal statutes. Such applications include, but are not limited to, those applications which:

1. Are subject to the PSD requirements published at 40 CFR 52;
2. Must be submitted to the EPA for approval as revisions to any state implementation plan; or
3. Are subject to emissions offset requirements under N.J.A.C. 7:27-18.

(b) The Commissioner of the Department may seek comments from the public whenever the Commissioner finds a significant degree of public interest in an application, or whenever the Commissioner determines such comments might clarify one or more issues involved in the decision on the application. In determining whether to seek or accept public comment, the Commissioner shall consider factors relevant to the subject application and the applicable requirements. These factors may include, but are not limited to, the following:

1. The extent of any emissions increase;
2. The impact of any emissions increase on ambient air quality, human health and welfare, and the environment;
3. The applicant's record of compliance with air pollution control requirements;
4. Any other air pollution control aspects of the application or facility which might make the application of particular interest to the public.

(c) The Department shall notify those who submitted a written request for public comment of the Commissioner's decision regarding their request. The Commissioner's notification shall be in writing, and if the decision is a denial, the notification shall include a discussion of the factors in (b) above, as well as a description of all other factors which formed the basis for the decision.

New Rule, R.1991 d.109, effective March 4, 1991 (operative March 31, 1991).

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

Old section recodified to 8.6.

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).

Recodified from N.J.A.C. 7:27-8.5 and 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. Former N.J.A.C. 7:27-8.10, Revocation, recodified to N.J.A.C. 7:27-8.16.

7:27-8.11 Standards for issuing a permit

(a) To obtain approval of a permit and certificate, a permit revision, or a compliance plan change, an applicant shall document that:

1. Each significant source included on the application meets all of the following standards which apply:
 - i. RACT requirements under N.J.A.C. 7:27-16 or 19;
 - ii. NSPS requirements;
 - iii. PSD requirements under 40 CFR 52.21; and
 - iv. All other applicable State or Federal air pollution control standards, codes, rules, or regulations; and
2. Each significant source incorporates advances in the art of air pollution control (also called "state of the art" or "SOTA"), developed for the kind and amount of air contaminant emitted by the equipment and control apparatus, if:
 - i. The source meets the criteria at N.J.A.C. 7:27-8.12(a); and
 - ii. The applicant proposes to construct, install, reconstruct, or modify the source.

New Rule, 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).

Former N.J.A.C. 7:27-8.11, Service fees, recodified to N.J.A.C. 7:27-8.6.

7:27-8.12 State of the art

(a) If an application proposes construction, installation, reconstruction, or modification of equipment and control apparatus which is a significant source meeting the following criteria, the applicant shall document state of the art (SOTA) for the source:

1. The equipment and control apparatus has a potential to emit any HAP at a rate equal to or greater than the SOTA Threshold in Appendix 1, Table B below; or
2. The equipment and control apparatus has a potential to emit any other air contaminant or category of air contaminant at a rate equal to or greater than the SOTA threshold in Appendix 1, Table A incorporated herein by reference.

(b) For equipment and control apparatus with the potential to emit an air contaminant that meets the SOTA criteria in (a) above, documentation of SOTA is only required for the air contaminant(s) that meets those criteria. Documentation of SOTA is not required for an air contaminant if the equipment's potential to emit that air contaminant does not meet the criteria in (a) above.

(c) Documentation of SOTA is not required for equipment and control apparatus that has, for every air contaminant, a potential to emit that is less than the levels indicated in (a) above.

(d) For purposes of determining whether a source meets the threshold levels in (a) above, the potential to emit an air contaminant shall be calculated separately for each piece of equipment. If the equipment is served by control apparatus, the equipment's potential to emit shall include fugitive emissions released from the equipment (but shall not include fugitive emissions released from the general infrastructure of the facility), and shall be calculated after controls, so that the effects of the control apparatus are included in the calculation of the equipment's potential to emit. This is consistent with the definition of "potential to emit" at N.J.A.C. 7:27-8.1. For example:

1. If two or more separate pieces of equipment are to be vented through the same control apparatus, the relative contribution made by each piece of equipment to the emissions from the control apparatus shall be calculated. Using these relative contributions, the applicant shall calculate each piece of equipment's potential to emit; and
2. If one piece of equipment is to be vented through two or more control apparatus, the applicant shall calculate the piece of equipment's potential to emit using the emissions from all of the control apparatus.

(e) An applicant shall document SOTA by complying with all of the following that apply:

1. For an air contaminant subject to LAER (Lowest Achievable Emission Rate) requirements pursuant to N.J.A.C. 7:27-18, compliance with LAER requirements for that air contaminant represents SOTA. LAER is a case by case determination;
2. For an air contaminant subject to BACT (Best Available Control Technology) requirements pursuant to 40 CFR 52.21, compliance with BACT requirements represents SOTA. BACT is a case-by-case determination;
3. For an air contaminant that is a HAP, emitted by equipment for which MACT (Maximum Achievable Control Technology) requirements have been promulgated in 40 CFR Part 63, compliance with MACT requirements represents SOTA;
4. For an air contaminant emitted by equipment for which New Source Performance Standards (NSPS) have been promulgated on or after August 2, 1995, compliance with the NSPS represents SOTA;
5. For an air contaminant not subject to (e)1 through 4 above, SOTA shall be documented through one of the following options. The applicant may choose which option to pursue:
 - i. An applicant shall document compliance with a SOTA Manual (available from the Department at the address in N.J.A.C. 7:27-8.4(b)) that applies to the source;

ii. If the source is eligible for a general permit under N.J.A.C. 7:27-8.8, an applicant shall register for the general permit in accordance with N.J.A.C. 7:27-8.8; or

iii. An applicant shall document compliance with a case by case SOTA standard determined through the process detailed in (f) below.

(f) A case by case SOTA standard shall be determined by the Department based on a demonstration by the applicant, using a "top down" approach. To perform a "top down" SOTA demonstration, the applicant shall:

1. Identify and evaluate a list of air pollution control technologies or measures that may be applied to the source. This list shall not be limited to measures that have been applied to other existing sources in this same source category. The list shall include measures applied to sources in similar source categories, as well as innovative control technologies, modification of the process or process equipment, other pollution prevention measures, and combinations of the above measures; and

2. Arrange the measures on the list in descending order of air pollution control effectiveness. The first-listed or "top" measure shall constitute SOTA for the source unless the applicant provides one of the following:

i. A demonstration that the top measure should be eliminated from consideration because it is technically infeasible, based on physical, chemical, or engineering principles, and/or technical difficulties that would prevent the successful application of the measure;

ii. A demonstration that the top measure should be eliminated from consideration based on its environmental impacts. The justification shall show that the adverse environmental effects of the top measure (for example, effects on water or land, HAP emissions, or increased environmental hazards), when compared with its air contaminant emission reduction benefits, would make use of the top measure unreasonable;

iii. A demonstration that the top measure should be eliminated from consideration based on its economic impacts. The justification shall show that the total and incremental costs of the top measure are greater than the total and incremental costs of the proposed measure(s); and that the extra costs, when compared with the air contaminant emission reduction benefits resulting from the top measure, would make use of the top measure unreasonable. All costs shall be calculated using the techniques in the latest edition of EPA's control cost manual; or

iv. A demonstration that the top measure should be eliminated from consideration based on its energy impacts. The justification shall show that the top measure uses fuels that are not reliably available; or that the energy consumed by the top measure is greater than the proposed measure(s), and that the extra ener-

gy used, when compared with the air contaminant emission reduction benefits resulting from the top measure, would make use of the top measure unreasonable; and

3. If the top measure is eliminated from consideration under any of the provisions at (f)2i through iv above, the applicant shall evaluate each successive measure on the list, using the procedures described in (f)2 above, until a measure is reached that is not eliminated. Upon the Department's approval of the SOTA demonstration, this measure shall constitute the case by case SOTA for the source.

New Rule, 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).

Former N.J.A.C. 7:27-8.12, Request for an adjudicatory hearing, recodified to N.J.A.C. 7:27-1.32.

Public Notice: Revised SOTA technical manual 13.

See: 35 N.J.R. 1961(b).

7:27-8.13 Conditions of approval

(a) The Department may establish conditions of approval of any preconstruction permit or certificate application.

(b) The Department may change the conditions of approval of a certificate:

1. At the time of renewal of a temporary operating certificate;

2. At the time of approval or renewal of a five-year operating certificate; or

3. At any time during the period a certificate is in effect, if the Department determines that such change is necessary to protect human health or welfare or the environment.

(c) Upon request of the Department, a permittee shall submit to the Department information relevant to the operation of equipment and control apparatus including, but not limited to:

1. A diagram of the facility indicating the location of any equipment and control apparatus, its applicable preconstruction permit and certificate number, any stack designation assigned by the Department, and any stack designation assigned by the person;

2. Records documenting any use of any equipment, control apparatus, or other source operation including, but not limited to, rate of production and hours of operation; and

3. Records documenting any construction or installation of any equipment or control apparatus, including the dates of such construction or installation.

(d) The Department may include, as a condition of approval, a compliance plan. The compliance plan shall in-