

1 Pollution Control Agency

2 Air Quality Division

3

4 Adopted Rule Governing the Agency's Permit Program for Growth or

5 Expansion of Industry in Nonattainment Areas

6

7 Rule as Adopted

8 6 MCAR S 4.0041 Offset rule.

9 A. Purpose. The purpose of this rule is to establish
10 conditions to be included in permits which the agency issues, in
11 accordance with the requirements of Minn. Stat. S 116.07, subd.
12 4a, to persons who propose to construct or modify certain
13 emission facilities in nonattainment areas. This rule may be
14 known as the "offset rule."

15 B. Applicability.

16 1. Except as provided in 2., this rule applies to persons
17 who propose to construct or modify a subject emission facility,
18 as defined in ~~6-18~~ C.17.

19 2. This rule does not apply in nonattainment areas of the
20 state for which a plan has been developed and approved by the
21 agency and the United States Environmental Protection Agency as
22 providing sufficient emission reductions to both:

23 a. Bring the area into attainment with the national
24 primary ambient air quality standards by December 31, 1982; and

25 b. Allow for an increase in emissions in the
26 nonattainment area during that period of time the area is
27 designated nonattainment.

1 C. Definitions. The definitions in rule APC 2 of the
2 Minnesota Pollution Control Agency apply to the terms used in
3 this rule unless the terms are defined herein. For the purposes
4 of this rule, the following words have the meanings defined
5 below.

6 1. "Air quality control region" means any of the seven
7 geographic areas specified by the agency for administrative
8 purposes based on jurisdictional boundaries, urban and
9 industrial concentrations, climate, meteorology, topography, and
10 other factors affecting the interchange and diffusion of
11 pollutants in the atmosphere. These are identified in 40 Code
12 of Federal Regulations, Section 52.1221 (1980).

13 2. "Criteria pollutant" means any of the following:
14 sulfur dioxide; particulate matter; nitrogen oxides; carbon
15 monoxide; ozone; nonmethane hydrocarbons; and lead.

16 3. "Fugitive emissions" means those pollutant discharges
17 which do not pass through a stack, chimney, vent, or other
18 functionally equivalent opening and which discharges are
19 quantifiable by methods in "Compilation of Air Pollutant
20 Emission Factors" (OAQPS AP-42, U.S. Environmental Protection
21 Agency, Office of Air Quality Planning and Standards, Research
22 Triangle Park, N.C. 27711, 1980), or methods that the director
23 determines are comparably reliable.

24 4. "Gross increase in emissions" means the gross number
25 of new tons per year of a nonattainment criteria pollutant that
26 could be legally discharged from a subject emission facility. In
27 determining the gross increase in emissions, the director shall
28 include all nonattainment criteria pollutant discharges that the

1 subject emission facility could emit but shall give a credit for
2 all legally enforceable restrictions on or reductions of the
3 nonattainment criteria pollutant discharges from the subject
4 emission facility (such as a restriction in nonattainment
5 criteria pollutant discharges that would result from installing
6 required pollution control equipment). No credit shall be
7 allowed for any other reductions of or restrictions on
8 nonattainment criteria pollutant discharges.

9 5- 4. "Lowest achievable emission rate" means, for any
10 --
11 emission facility, the most stringent emission limitation or
12 standard of performance that is achievable in practice by that
13 class or category of emission facility. In no case shall the
14 lowest achievable emission rate be construed to allow emissions
15 in excess of any applicable standard. The emission limitation
16 specified in any other state's plan shall be presumed to be
17 achievable in practice unless a person demonstrates to the
18 director that the emission limitation or standard of performance
19 is not achievable for reasons other than economic costs.

20 6- 5. "Modification" or "modified" means any physical
21 --
22 change in, change in the method of operation of, or addition to
23 an emission facility which would result in an a net increase in
24 -----
25 emissions. As used in this rule, the term modification or
26 modified does not include:

- 27 a. Routine maintenance, repair or replacement;
28 b. Changes in method or hours of operation unless the
changes are disallowed by an agency rule, stipulation agreement,
permit or order, or by a court order;
c. Increases in production rates unless the increases

1 exceed the operating design capacity of any emission facility;

2 d. Use of a fuel generated from municipal solid waste
3 in a steam generating unit;

4 e. A change in ownership; or

5 f. Use of a fuel or raw material in an emission
6 facility that:

7 (1) Was designed to accommodate the use prior to
8 December 21, 1976; or

9 (2) Is commencing or has commenced the fuel or raw
10 material use pursuant to an order under sections 2(a) and (b) of
11 the Energy Supply and ~~Environment~~ Environmental Coordination Act
12 of 1974, 15 United States Code, Section 792 (1980), under a
13 natural gas curtailment plan pursuant to the Federal Power Act,
14 16 United States Code, Section 791a et seq. (1980), or under
15 section 125 of the Clean Air Act of 1977, 42 United States Code,
16 Section 7425 (1980).

17 ~~7-~~ 6. "National ambient air quality standards" means the
18 primary (health related) and secondary (welfare related)
19 pollutant concentrations established by the Administrator of the
20 United States Environmental Protection Agency, pursuant to
21 section 109 of the Clean Air Act of 1977, 42 United States Code,
22 Section 7409 (1980).

23 ~~8-~~ 7. "Net air quality benefit" means that, in the area
24 that would be affected by the subject emission facility, offsets
25 proposed to be obtained by a person pursuant to D.1. are
26 sufficient to result in a net reduction, on both a pounds per
27 hour and tons per year basis, in both the rate of emissions and
28 the concentration of nonattainment criteria pollutants.

1 a. The area that would be affected by the subject
2 emission facility is defined as follows:

3 (1) For subject emission facilities proposed to be
4 located in carbon monoxide, nitrogen oxide, nonmethane
5 hydrocarbon, or ozone nonattainment areas, the area that would
6 be affected by the subject emission facility is the air quality
7 control region in which the subject emission facility is
8 proposed to be located; and

9 (2) For subject emission facilities proposed to be
10 located in sulfur dioxide, particulate matter, or lead
11 nonattainment areas, the area that would be affected by the
12 subject emission facility is the area that the modeling
13 analysis, performed in accordance with D.2., demonstrates to be
14 affected by the subject emission facility.

15 b. The director shall find that there is a net
16 reduction in both the rate of emissions and the concentration of
17 nonattainment criteria pollutants if Y divided by X is equal to
18 or greater than 1.1, where:

19 (1) X = the restricted emissions to which the
20 subject emission facility will be limited and

21 (2) Y = the offsets to be provided by the person
22 proposing the subject emission facility.

23 9- 8. "Net increase in emissions" means the net number of
24 new tons per year of a nonattainment criteria pollutant that
25 could be legally discharged from a subject emission facility.

26 In determining the net increase in emissions, the director

27 a. Shall include all nonattainment criteria pollutant
28 discharges that the subject emission facility could emit but

1 b. Shall give a credit for

2 (1) All legally enforceable restrictions on or
3 reductions of the nonattainment criteria pollutant discharges
4 from the subject emission facility (such as a restriction on
5 nonattainment criteria pollutant discharges that would result
6 from installing required pollution control equipment); and

7 (2) Any other restrictions on or reductions of the
8 nonattainment criteria pollutant discharges that the person
9 proposing the subject emission facility both obtains within the
10 same plant and agrees to include within the terms of any permit
11 issued for the subject emission facility.

12 ~~10-~~ 9. "Nonattainment area" means any geographic region
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14 that has been designated by the agency as violating a state or
15 national ambient air quality standard or by the United States
16 Environmental Protection Agency as violating a national ambient
17 air quality standard.

18 ~~11-~~ 10. "Nonattainment criteria pollutants" means as
19 ---
20 follows:

21 a. For all nonattainment areas except ozone
22 nonattainment areas, nonattainment criteria pollutant means the
23 criteria pollutant for which an area is designated
24 nonattainment; and

25 b. For ozone nonattainment areas, nonattainment
26 criteria pollutant means nonmethane hydrocarbons.

27 ~~12-~~ 11. "Offsets" means any documented reductions in
28 ---
29 restricted emissions of nonattainment criteria pollutants that:

30 a. Are legally enforceable and

31 b. Are achieved after August 7, 1977, or after the

1 date of completion of the emission inventory used by the agency
2 in developing the most recent revision to the plan, whichever is
3 later.

4 ~~13-~~ 12. "Plan" or "state implementation plan" means any
5 state air quality control laws, rules, permits, stipulation
6 agreements, and procedures, developed to insure compliance with
7 state and national ambient air quality standards.

8 ~~14-~~ 13. "Plant" means any assemblage of buildings,
9 structures or emission facilities, on one or more adjacent or
10 contiguous properties that are under common ownership or control
11 and that are identified by the same two digit Standard
12 Industrial Code as specified in the Standard Industrial
13 Classification Manual, 1972, as prepared by the Executive Office
14 of the President, Office of Management and Budget and as amended
15 by the 1977 Supplement.

16 ~~15-~~ 14. "Resource recovery facility" means any emission
17 facility at which solid waste is processed for the purpose of
18 extracting, converting to energy, or otherwise separating and
19 preparing solid waste for reuse. An energy conversion facility
20 must utilize solid waste to provide more than 50 percent of the
21 heat input to be considered a resource recovery facility under
22 this rule. In calculating whether solid waste is used to
23 provide more than 50 percent of the heat input, a 30-day rolling
24 average shall be used.

25 ~~16-~~ 15. "Restricted emissions" means the maximum
26 nonattainment criteria pollutant discharges, including fugitive
27 emissions, which may be emitted from an emission facility based
28 on the most stringent of the following:

- 1 a. Any emission standard or performance standard
2 established in an applicable rule;
- 3 b. Any emission standard or performance standard
4 established in an applicable installation or operating permit or
5 stipulation agreement;
- 6 c. Any emission rate resulting from operation at
7 design efficiency of air pollution control equipment for an
8 emission facility;
- 9 d. Any emission rate used as the basis for a revision
10 to this state's plan unless such a rate is shown to be in error
11 within 90 days of the effective date of this rule in which case
12 the corrected rate shall be used; or
- 13 e. The emission rate to which the subject emission
14 facility is physically limited.
- 15 ~~17-~~ 16. "State ambient air quality standards" means the
16 pollutant concentrations in rule APC 1 of the Minnesota
17 Pollution Control Agency.
- 18 ~~18-~~ 17. "Subject emission facility" means:
19 a. An emission facility that is proposed to be
20 constructed or modified
- 21 (1) In any area designated a nonattainment area on
22 the date the agency receives the completed permit application
23 for the proposed construction or modification and
- 24 (2) The construction or modification of which will
25 result in a gross net increase in emissions of at least 100 tons
26 per year of a nonattainment criteria pollutant; or
- 27 b. An emission facility that is proposed to be
28 modified

1 (1) In any area designated a nonattainment area on
 2 the date the agency receives the completed permit application
 3 for the proposed modification;

4 (2) Has existing restricted emissions of at least
 5 100 tons per year of the nonattainment criteria pollutant; and

6 (3) The modification of which will result in a
 7 significant net increase in emissions of the nonattainment
 8 criteria pollutant. A net increase in emissions is significant
 9 if the rate of the increase is at least the rate specified below:

- | | | |
|----|------------------------------|-----------------------|
| 10 | (a) carbon monoxide: | 100 tons per year; |
| 11 | (b) sulfur dioxide: | 40 tons per year; |
| 12 | (c) nitrogen oxides: | 40 tons per year; |
| 13 | (d) nonmethane hydrocarbons: | 40 tons per year; |
| 14 | (e) particulate matter: | 25 tons per year; |
| 15 | (f) lead: | 0.6 tons per year; or |

16 c. A plant that is proposed to be modified

17 (1) In any area designated a nonattainment area on
 18 the date the agency receives the completed permit application
 19 for the proposed modification and

20 (2) Which proposed modification, when considered in
 21 aggregate with X, will result in a significant net increase in
 22 emissions of the nonattainment criteria pollutant, where:

23 (a) X = the gross net increase in nonattainment
 24 criteria pollutant discharges resulting from any construction or
 25 modification of the plant which was permitted by the agency
 26 during the following time period: any time both within the 18
 27 months immediately prior to the date the agency receives the
 28 completed permit application for the proposed modification and

1 during which the area within which the plant is located was
2 designated a nonattainment area.

3 (b) A net increase in emissions is significant if
4 the rate of the increase is at least the rate specified in b.(3).

5 ~~19-~~ 18. "Thirty-day rolling average" means the arithmetic
6 mean of daily values calculated with each new day as the last of
7 a 30-day period; provided however, that the arithmetic mean of
8 daily values obtained during times of breakdown shall be
9 excluded from the calculation.

10 D. Conditions for permit. Except as provided in 5., the
11 agency shall not issue permits for any subject emission facility
12 unless the permit applicant has satisfied the conditions in 1.-3.
13 All permits issued for subject emission facilities shall contain
14 the conditions set forth in 4.

15 1. Requirement to get offsets. Prior to constructing or
16 modifying a subject emission facility, except an emission
17 facility that is intended to be located in a nonattainment area
18 for less than two years, the owner or operator of that facility
19 shall obtain offsets for all emissions of nonattainment criteria
20 pollutants that will result from the construction or
21 modification. An emission facility that was intended to be
22 located in the nonattainment area for less than two years but
23 that remains for two years or more shall be subject to all the
24 applicable requirements of this rule.

25 2. Requirement to demonstrate a net air quality benefit.
26 Prior to constructing or modifying a subject emission facility,
27 the permit applicant shall demonstrate that the offsets to be
28 provided are sufficient to result in a net air quality benefit,

1 as defined in ~~C-8~~ C.7.

2 a. For subject emission facilities located or proposed
3 to be located in carbon monoxide, nitrogen oxide, nonmethane
4 hydrocarbon or ozone nonattainment areas, a permit applicant
5 shall not be required to perform a modeling analysis to
6 demonstrate net air quality benefit but shall submit to the
7 agency a detailed statement of all information that the director
8 needs in order to be able to determine whether a net air quality
9 benefit will result from the construction or modification.

10 b. For subject emission facilities located or proposed
11 to be located in sulfur dioxide or particulate matter or lead
12 nonattainment areas, a permit applicant shall perform a modeling
13 analysis to determine whether the offsets to be provided are
14 sufficient to result in a net air quality benefit, shall analyze
15 the data obtained and shall submit to the agency the modeling
16 data, the modeling analyses, a detailed description of the
17 system of continuous emission reduction planned, and emission
18 estimates made, together with any other information that the
19 director needs in order to be able to determine whether a new
20 net air quality benefit will result from the construction or
21 modification. All modeling shall be performed in accordance
22 with "Guidelines on Air Quality Models" (OAQPS No. 1.2-080, U.S.
23 Environmental Protection Agency, Office of Air Quality Planning
24 and Standards, 1978) or methods that the director finds to be
25 comparably reliable.

26 3. Requirement to certify compliance. Prior to
27 constructing or modifying a subject emission facility, the
28 permit applicant shall certify that all emission facilities in

1 Minnesota which are either owned or operated in whole or in part
2 by the same person for whom the application is made or which are
3 operated under the common control of the same person for whom
4 the application is made are in compliance or are on a compliance
5 schedule.

6 4. Permit conditions. Any permit issued for a subject
7 emission facility shall include a provision that

8 a. Limits emissions from the facility as follows:

9 (1) The owner or operator of a subject emission
10 facility shall install technology that restricts emissions from
11 the facility to the lowest achievable emission rate of the
12 nonattainment criteria pollutants for which the facility is
13 subject to this rule. The permit shall expressly describe the
14 lowest achievable emission rate for the class or category of
15 emission facility into which the subject emission facility falls.

16 (2) The director shall waive the requirement of (1)
17 if the director determines that a performance standard based on
18 design, equipment, work practice, operation or other alternative
19 standard is more practicable than an emission rate.

20 b. States that the offsets that the subject emission
21 facility has obtained in order to be issued a permit under this
22 rule are legally enforceable by the agency and by the United
23 States Environmental Protection Agency.

24 5. Exception from requirement to get offsets.

25 a. A permit applicant proposing to construct or modify
26 a resource recovery facility burning municipal solid waste shall
27 not be required to obtain sufficient offsets to demonstrate a
28 net air quality benefit if the director determines that the

1 permit applicant

2 (1) Has made its best efforts to obtain sufficient
3 offsets to comply with this rule and has demonstrated that such
4 efforts were unsuccessful;

5 (2) Has obtained all available offsets; and

6 (3) Agrees to continue to seek the necessary offsets
7 and apply them when they become available.

8 b. The director shall determine that the permit
9 applicant has made its best efforts if the permit applicant
10 demonstrates that the requirement to obtain sufficient offsets
11 creates an undue economic hardship for the permit applicant or
12 is technologically unachievable.

13 (1) If the permit applicant seeks to obtain an
14 exception on the grounds of undue economic hardship, it shall
15 submit to the director the information set out in rule MPCA
16 6(b)(5) of the Minnesota Pollution Control Agency.

17 (2) If the permit applicant seeks to obtain an
18 exception on the grounds of technological unachievability, it
19 shall submit to the director the information set out in rule
20 MPCA 6(b)(6) of the Minnesota Pollution Control Agency.

21 E. Banking.

22 1. A person who has obtained a reduction in the amount of
23 restricted emissions emitted from an emission facility shall be
24 permitted to bank that reduction for future use as an offset (as
25 allowed by this rule) under the following circumstances,
26 limitations and conditions.

27 2. This rule authorizes a person to bank only those
28 reductions in emissions that:

1 a. Were obtained after August 7, 1977, but prior to
2 the effective date of this rule and that are reported to the
3 agency within six months of the effective date of this rule; or

4 b. Are obtained after the effective date of this rule.

5 3. In order to be eligible for banking, the emission
6 reductions shall be final and enforceable, either through the
7 terms of a stipulation agreement, permit, or other legal
8 instrument obtained by an owner of a facility or through a
9 permanent, physical alteration of the facility.

10 4. In order to be able to bank reductions in emissions,
11 the person obtaining those reductions shall report to the
12 director the amount and location of the banked emissions and the
13 time at which the banked emissions have become permanently and
14 finally implemented. The report shall be made within six months
15 after the reductions have become final and enforceable or within
16 six months after this rule has been adopted, whichever is later.

17 F. Limitation on use of offsets. To the extent that this
18 rule creates a program for the use of offsets or allows persons
19 to purchase or obtain offsets, this rule shall not be construed
20 to create a property right that requires compensation from the
21 state should offsets later become unuseable due to a change in
22 an applicable emission limitation or standard of the agency.