

1 Pollution Control Agency

2

3 Adopted Permanent Rules Relating to Control Equipment

4

5 Rules as Adopted

6 7007.0100 DEFINITIONS.

7 [For text of subps 1 to 9, see M.R.]

8 Subp. 9a. **Emission point.** "Emission point" means the
9 stack, chimney, vent, or other functionally equivalent opening
10 whereby emissions are exhausted to the atmosphere.

11 [For text of subps 10 to 12, see M.R.]

12 Subp. 12a. **Hazardous air pollutant.** "Hazardous air
13 pollutant" means any air pollutant listed in section 112(b) of
14 the act.

15 Subp. 12b. **Listed control equipment.** "Listed control
16 equipment" has the meaning given in part 7011.0060, subpart 3 4.

17 [For text of subps 13 to 16, see M.R.]

18 Subp. 17. **Permit.** "Permit" means any permit issued under
19 parts 7007.0100 to 7007.1850, including part 70 permits, state
20 permits, registration permits, and general permits.

21 [For text of subp 18, see M.R.]

22 Subp. 18a. **Registration permit.** "Registration permit"
23 means a permit issued under parts 7007.1110 to 7007.1130.

24 [For text of subps 19 to 27, see M.R.]

25 Subp. 28. 12-month rolling sum. "12-month rolling sum"
26 means a monthly calculation where the owner or operator of a
27 stationary source calculates a one month total and adds it to
28 the sum of each month's total for the previous 11 consecutive
29 months.

30 7007.0150 PERMIT REQUIRED.

31 [For text of subpart 1, see M.R.]

32 Subp. 2. **Permit required.** Part 7007.0200 describes which
33 emission facilities, emissions units, and stationary sources in
34 Minnesota are required to obtain a part 70 permit. Part
35 7007.0250 describes which emission facilities, emission units,

1 and stationary sources in Minnesota are required to obtain a
2 state permit. Part 7007.0300 describes emission units and
3 stationary sources in Minnesota that are not required to obtain
4 a permit. Part 70 and state permits required in parts 7007.0200
5 and 7007.0250 may alternately be obtained in the form of a
6 general permit, if available, under part 7007.1100. Permits may
7 also alternately be obtained in the form of a registration
8 permit under parts 7007.1110 to 7007.1130, if the stationary
9 source qualifies under those parts.

10 [For text of subp 3, see M.R.]

11 Subp. 4. Calculation of potential to emit.

12 A. For purposes of parts 7007.0200 and 7007.0250, the
13 owner or operator of a stationary source shall calculate the
14 stationary source's potential to emit using the definition in
15 part 7005.0100, subpart 35a, except as provided in subitems (1)
16 and (2).

17 (1) Emissions caused by activities described in
18 subpart 2 of the insignificant activities list in part 7007.1300
19 shall not be considered in the calculation of potential
20 emissions.

21 (2) Emissions caused by activities described in
22 subpart 3 of the insignificant activities list in part 7007.1300
23 shall be considered in the calculation of potential emissions if
24 required by the agency under part 7007.0500, subpart 2, item C,
25 subitem (2).

26 Calculations of emissions under this subpart are only
27 intended to determine if a permit is required.

28 B. To make the determination of whether a permit is
29 required, the owner or operator of a stationary source shall use
30 the potential to emit calculation method described in item A.

31 To determine what type of permit is required, if a permit is
32 required ~~under-item-A~~, the control equipment efficiency
33 determined by part 7011.0070 for listed control equipment at a
34 stationary source may be used in calculating ~~potential-to~~
35 ~~emit~~ controlled emissions if the owner or operator is in
36 compliance with parts 7011.0060 to 7011.0080.

1 C. When calculating emissions to determine if a
2 permit amendment is required, the calculation method stated in
3 part 7007.1200 shall be used.

4 [For text of subp 5, see M.R.]

5 7007.0200 SOURCES REQUIRED OR ALLOWED TO OBTAIN A PART 70 PERMIT.

6 Subpart 1. **Part 70 permit required.** The emission
7 facilities, emission units, and stationary sources described in
8 subparts 2 to 5 must obtain a part 70 permit from the agency.
9 All provisions of parts 7007.0100 to 7007.1850 apply to part 70
10 permits unless the provision states that it applies only to
11 state permits, registration permits, or general permits.

12 [For text of subps 2 to 6, see M.R.]

13 7007.0250 SOURCES REQUIRED TO OBTAIN A STATE PERMIT.

14 Subpart 1. **State permit required.** The stationary sources
15 described in this part must obtain a state permit from the
16 agency under this part. All provisions of parts 7007.0100 to
17 7007.1850 apply to state permits unless the provision states
18 that it applies only to part 70 permits, general permits, or
19 registration permits.

20 [For text of subps 2 to 5, see M.R.]

21 Subp. 7. **Registration permits.** A stationary source
22 required to obtain a state permit from the agency under this
23 part, or which chooses to obtain a state permit to limit its
24 emissions to levels below those that would trigger the
25 requirement to obtain a part 70 permit, may elect to instead
26 obtain a registration permit under parts 7007.1110 to 7007.1130,
27 if the stationary source qualifies under those parts.

28 7007.0300 SOURCES NOT REQUIRED TO OBTAIN A PERMIT.

29 Subpart 1. **No permit required.** The following stationary
30 sources are not required to obtain a permit under parts
31 7007.0100 to 7007.1850:

32 A. any stationary source that is not described in
33 part 7007.0200, subparts 2 to 5, or 7007.0250;

34 B. notwithstanding parts 7007.0200 and 7007.0250, any

1 stationary source that would be required to obtain a permit
2 solely because it is subject to one or more of the following new
3 source performance standards:

4 (1) Code of Federal Regulations, title 40, part
5 60, subpart AAA, Standards of Performance for New Residential
6 Wood Heaters (incorporated by reference at part 7011.2950);

7 (2) Code of Federal Regulations, title 40, part
8 60, subpart JJJ, Standards of Performance for Petroleum Dry
9 Cleaners (incorporated by reference at part 7011.3250);

10 (3) Code of Federal Regulations, title 40, part
11 60, subpart Kb, Standards of Performance for Volatile Organic
12 Liquid Storage Vessels (including Petroleum Liquid Storage
13 Vessels) for Which Construction, Reconstruction or Modification
14 Commenced after July 23, 1984 (incorporated by reference at part
15 7011.1520, item C), if all storage vessels subject to this
16 standard at the stationary source each have a capacity greater
17 than or equal to 40 cubic meters and less than 75 cubic meters;
18 and

19 (4) Code of Federal Regulations, title 40, part
20 60, subpart Dc, Standards of Performance for Small
21 Industrial-Commercial-Institutional Steam Generating Units
22 (incorporated by reference at part 7011.0570), if all steam
23 generating units subject to this standard at the stationary
24 source are only capable of combusting natural gas; and

25 C. notwithstanding parts 7007.0200 and 7007.0250, any
26 stationary source that would be required to obtain a permit
27 solely because it is subject to Code of Federal Regulations,
28 title 40, part 61, subpart M, National Emission Standard for
29 Hazardous Air Pollutants for Asbestos, section 61.145, Standard
30 for Demolition and Renovation (incorporated by reference at part
31 7011.9920); and

32 D. any stationary source with only emissions units
33 listed as insignificant activities in part 7007.1300, subparts 2
34 and 3, if the following requirements are met by the owner or
35 operator:

36 (1) the records are maintained that demonstrate

1 that a permit is not required; and

2 (2) the records are kept at the stationary source
 3 and are made available for examination and copying by the
 4 commissioner or a representative of the commissioner.

5 [For text of subp 2, see M.R.]

6 7007.0350 EXISTING SOURCE APPLICATION DEADLINES AND SOURCE
 7 OPERATION DURING TRANSITION.

8 Subpart 1. Transition applications under this part;
 9 deadline based on SIC code. Initial permit applications under
 10 parts 7007.0100 to 7007.1850 for an emission unit, emission
 11 facility, or stationary source in operation on October 18, 1993,
 12 shall be considered timely if they meet the requirements of this
 13 part.

14 A. An owner or operator of an existing stationary
 15 source with a Standard Industrial Classification (SIC) Code
 16 number in the left column of the following table shall submit a
 17 permit application by the corresponding date in the right column:

18 Category	SIC Code Range	Application Deadline
19 A	20 0000 to 2399, excluding 21 1422, 1423, 1429, 22 1442, 1446, 23 2041, and 2048	October 15, 1994
24 B	25 2400 to 2999 and 4953, 26 excluding 2951 and 2952	January 15, 1995
27 C	28 3000 to 4499	March 15, 1995
29 D	30 4500 to 5099, excluding 31 4953	June 15, 1995
32 E	33 5100 to 8199	September 15, 1995
34 F	35 8200 to 9999, including 36 1422, 1423, 1429, 1442, 37 1446, 2041, 2048, 2951, 38 and 2952	November 15, 1995

39 [For text of items B to E, see M.R.]

40 [For text of subps 2 to 5, see M.R.]

41 7007.0400 PERMIT REISSUANCE APPLICATIONS AFTER TRANSITION; NEW
 42 SOURCE AND PERMIT AMENDMENT APPLICATIONS; APPLICATIONS FOR
 43 SOURCES NEWLY SUBJECT TO A PART 70 OR STATE PERMIT REQUIREMENT.

44 Subpart 1. Requirement for application. Applications for
 45 reissued permits after the transition period shall be considered

1 timely if they meet the requirements of subpart 2. Applications
2 for permits for new stationary sources or amendments shall be
3 considered timely if they meet the requirements of subpart 3.
4 An application for a total facility permit from a stationary
5 source that, because of a modification or change at the
6 stationary source, becomes subject to the requirement to obtain
7 a part 70 or state permit for the first time after the
8 application deadline in part 7007.0350, subpart 1, and which was
9 issued a permit for the installation and operation of the change
10 or modification under part 7007.0750, subpart 5, shall be
11 considered timely if it meets the requirements of subpart 4.

12 [For text of subps 2 and 3, see M.R.]

13 **Subp. 4. Applications for permits for stationary sources**
14 **newly subject to the requirement to obtain a part 70 or state**
15 **permit. If a modification or change at a stationary source**
16 **would make the source subject for the first time to the**
17 **requirement to obtain a part 70 or state permit after the**
18 **application deadline in part 7007.0350, subpart 1, and the**
19 **agency issues a permit authorizing installation or operation of**
20 **the change or modification under part 7007.0750, subpart 5, the**
21 **owner or operator shall submit an application for a total**
22 **facility permit:**

23 A. within 180 days after commencing operation of the
24 change or modification that triggered the permit requirement, if
25 the owner or operator is applying for a state, registration, or
26 general permit; or

27 B. within 365 days after commencing operation of the
28 change or modification that triggered the permit requirement, if
29 the owner or operator is applying for a part 70 permit.

30 7007.0500 CONTENT OF PERMIT APPLICATION.

31 [For text of subpart 1, see M.R.]

32 **Subp. 2. Information included. Applicants shall submit**
33 **the following information as required by the standard**
34 **application form:**

35 [For text of items A and B, see M.R.]

1 C. The following emissions-related information:

2 (1) A permit application shall provide the
3 information required by this part for every emissions unit
4 within the stationary source, except as provided otherwise in
5 subitems (2) to (10). Notwithstanding the first sentence, if a
6 stationary source is not a major source and the sole reason it
7 is required to have a permit is because it is subject to federal
8 standards described under part 7007.0250, subpart 2, then the
9 application need only provide information for the emissions
10 units regulated by those federal standards. All permit
11 applications shall include information about fugitive emissions
12 in the same manner as stack emissions, regardless of whether the
13 stationary source category in question is included in the list
14 of stationary sources contained in the definition of major
15 source in part 7007.0200, subpart 2.

16 [For text of subitem (2), see M.R.]

17 (3) A permit application shall identify and
18 describe each emission point in sufficient detail to verify the
19 applicability of all applicable requirements. This shall
20 include the location of all emission points, and the location of
21 all emissions units and processes venting through each emission
22 point. In addition, if the exhaust gas flow rate and
23 temperature, and the stack height and diameter of an emission
24 point are needed to determine applicability of or show
25 compliance with any applicable requirement, this information
26 shall be provided. For stationary sources that are major
27 sources according to part 7007.0200, subpart 2, item A, the
28 exhaust gas flow rate and temperature and stack height and
29 diameter shall be provided for all emission points. For
30 stationary sources that are major sources of sulfur dioxide,
31 particulate matter less than ten microns, or nitrogen oxides
32 according to part 7007.0200, subpart 2, items B and C, the
33 exhaust gas flow rate and temperature, and stack height and
34 diameter shall be provided for all emission points of the
35 pollutant or pollutants for which the source is major.

36 (4) A permit application shall identify rates

1 of each regulated air ~~pollutants~~ pollutant and each hazardous
 2 air ~~pollutants~~ pollutant that ~~are~~ is not yet a regulated air
 3 ~~pollutants~~ pollutant, as defined in part 7007.0100, subpart 19,
 4 emitted in tons per year from the stationary source as a whole,
 5 ~~and-also.~~ A permit application shall identify rates, in tons
 6 per year, and in such terms as are necessary to establish
 7 compliance consistent with the applicable standard reference
 8 test method for each emissions unit subject to an applicable
 9 requirement. The application shall provide this information for
 10 potential emissions, as defined in part 7005.0100, subpart 35a.
 11 The application shall also include the emissions limits that
 12 will be imposed on the stationary source by applicable
 13 requirements.

14 (5) A permit application shall provide the
 15 information on actual emissions for the preceding calendar year
 16 required in this subitem.

17 (a) The permittee shall provide actual
 18 emission rates, in tons per year, of criteria pollutants unless,
 19 ~~in-the-preceding-year~~, the permittee has submitted an emissions
 20 inventory as required by parts 7019.3000 and 7019.3010.

21 (b) For stationary sources that are major
 22 sources under part 7007.0200, subpart 2, ~~item-B-or-C~~, the
 23 permittee shall provide actual emission rates, in total tons per
 24 year, or if emissions of a hazardous air pollutant are less than
 25 one ton per year, in pounds per year, of each hazardous air
 26 pollutant for the stationary source as a whole.

27 (c) For stationary sources that are major
 28 sources under part 7007.0200, subpart 2, item A, the permittee
 29 shall provide actual emission rates, in tons per year, or if
 30 emissions of a hazardous air pollutant are less than one ton per
 31 year, in pounds per year, of each hazardous air pollutant for
 32 each emissions unit at the stationary source.

33 [For text of subitems (6) to (10), see M.R.]

34 [For text of items D to N, see M.R.]

35 [For text of subps 3 to 5, see M.R.]

1 7007.0750 APPLICATION PRIORITY AND ISSUANCE TIMELINES.

2 [For text of subps 1 to 4, see M.R.]

3 Subp. 5. **Modification installation and operation permits.**

4 The agency may issue permits authorizing a modification or
5 change to a stationary source (an installation and operation
6 permit) prior to issuance of an operating permit covering the
7 entire stationary source (a total facility permit) if the agency
8 finds:

9 A. the stationary source has filed a complete
10 application for the proposed modification or change and:

11 (1) has filed a timely application for a total
12 facility permit under part 7007.0350, subpart 1; or

13 (2) was not subject to the requirement to file a
14 permit application under the deadlines in part 7007.0350,
15 subpart 1, because the change or modification will subject the
16 stationary source for the first time to the requirement to
17 obtain a part 70 or state permit;

18 B. the delay resulting from issuing the installation
19 and operation permit and the total facility permit at the same
20 time would cause undue economic hardship on the stationary
21 source; and

22 C. the agency has sufficient information about the
23 entire stationary source to be able to comply with the
24 requirements of part 7007.1000.

25 The requirements of parts 7007.0100 to 7007.1850 that apply
26 to modifications to a stationary source with a total facility
27 permit shall also apply to modifications authorized under this
28 part. The owner or operator of a stationary source that obtains
29 an installation and operation permit under item A, subitem (2),
30 shall lose its right to operate the stationary source if the
31 owner or operator fails to submit an application for a total
32 facility permit in the time required by part 7007.0400, subpart
33 4, and shall be considered to be in violation of part 7007.0150,
34 subpart 1.

35 [For text of subps 6 and 7, see M.R.]

1 7007.1050 DURATION OF PERMITS.

2 [For text of subps 1 to 3, see M.R.]

3 Subp. 3a. **Registration permits.** A registration permit
4 shall not expire.

5 [For text of subps 4 to 7, see M.R.]

6 7007.1110 REGISTRATION PERMIT GENERAL REQUIREMENTS.

7 Subpart 1. **Stationary sources that may obtain a**
8 **registration permit.** A stationary source that qualifies for a
9 registration permit under this part and part 7007.1115 (Option
10 A), 7007.1120 (Option B), 7007.1125 (Option C), or 7007.1130
11 (Option D) may elect to apply to the commissioner for a
12 registration permit instead of a part 70, state, or general
13 permit, except as provided in subpart 2.

14 Subp. 2. **Stationary sources that may not obtain a**
15 **registration permit.**

16 A. A stationary source may not obtain a registration
17 permit if it is required to obtain a permit under parts
18 7007.0200, subpart 3 (acid rain affected sources), 7007.0200,
19 subpart 4 (solid waste incinerators, waste combustors),
20 7007.0200, subpart 5 (other part 70 sources), 7007.0250, subpart
21 3 (state implementation plan required state permit), or
22 7007.0250, subpart 6 (waste combustors).

23 B. A stationary source may not obtain a registration
24 permit if it is subject to a new source performance standard
25 other than the following:

26 (1) Code of Federal Regulations, title 40, part
27 60, subpart Dc, Standards of Performance for Small
28 Industrial-Commercial-Institutional Steam Generating Units
29 (incorporated by reference in part 7011.0570);

30 (2) Code of Federal Regulations, title 40, part
31 60, subpart K, Standards of Performance for Storage Vessels for
32 Petroleum Liquids for Which Construction, Reconstruction or
33 Modification Commenced After June 11, 1973 and Prior to May 19,
34 1978 (incorporated by reference in part 7011.1520, item A);

35 (3) Code of Federal Regulations, title 40, part

1 60, subpart Ka, Standards of Performance for Storage Vessels for
2 Petroleum Liquids for Which Construction, Reconstruction or
3 Modification Commenced After May 18, 1978 and Prior to July 23,
4 1984 (incorporated by reference in part 7011.1520, item B);

5 (4) Code of Federal Regulations, title 40, part
6 60, subpart Kb, Standards of Performance for Volatile Organic
7 Liquid Storage Vessels (Including Petroleum Storage Vessels) for
8 Which Construction, Reconstruction or Modification Commenced
9 After July 23, 1984 (incorporated by reference in part
10 7011.1520, item C;

11 (5) Code of Federal Regulations, title 40, part
12 60, subpart DD, Standards of Performance for Grain Elevators
13 (incorporated by reference in part 7011.1005, subpart 2);

14 (6) Code of Federal Regulations, title 40, part
15 60, subpart EE, Standards of Performance for Surface Coating of
16 Metal Furniture (incorporated by reference in part 7011.2550);

17 (7) Code of Federal Regulations, title 40, part
18 60, subpart SS, Standards of Performance for Industrial Surface
19 Coating: Large Appliances (incorporated by reference in part
20 7011.2565);

21 (8) Code of Federal Regulations, title 40, part
22 60, subpart JJJ, Standards of Performance for Petroleum Dry
23 Cleaners (incorporated by reference in part 7011.3250);

24 (9) Code of Federal Regulations, title 40, part
25 60, subpart OOO, Standards of Performance for Nonmetallic
26 Mineral Processors (incorporated by reference in part
27 7011.3350); and

28 (10) Code of Federal Regulations, title 40, part
29 60, subpart TTT, Standards of Performance for Industrial Surface
30 Cleaning of Plastic Parts for Business Machines (incorporated by
31 reference in part 7011.2580).

32 Subp. 3. **Registration permit application.** Items A to D
33 apply to registration permit applications submitted under parts
34 7007.1110 to 7007.1130.

35 A. The owner or operator of a stationary source must
36 apply for a registration permit prior to the applicable deadline

1 in parts 7007.0350 and 7007.0400. If the owner or operator has
2 submitted a complete application for a state, part 70, or
3 general permit prior to the application deadline in part
4 7007.0350 or 7007.0400 and is eligible for a registration
5 permit, then the owner or operator may apply for a registration
6 permit and shall request to have the original application voided.

7 B. The owner or operator of a stationary source must
8 submit the registration permit application on a standard
9 application form provided by the commissioner. The commissioner
10 may create different application forms for the different
11 registration permit options available under parts 7007.1115 to
12 7007.1130.

13 C. Any owner or operator of a stationary source who
14 fails to submit any relevant facts or who has submitted
15 incorrect information in an application for a registration
16 permit shall, upon becoming aware of such failure or incorrect
17 information, promptly submit to the commissioner such
18 supplementary facts or corrected information. This requirement
19 applies both while the permit application is pending before the
20 commissioner and after a registration permit is issued.

21 D. If the commissioner determines during review of
22 the application that additional information is needed to
23 evaluate the registration permit application or to verify that
24 the stationary source qualifies for a registration permit under
25 parts 7007.1110 to 7007.1130, the commissioner may request the
26 information from the applicant, and the applicant shall submit
27 the information to the commissioner by the date specified in the
28 request.

29 Subp. 4. **Registration permit certifications.** All
30 registration permit applications, reports, and record keeping,
31 testing, or monitoring submittals to the commissioner under
32 parts 7007.1110 to 7007.1130 shall include a certification made
33 by a responsible official. The certification shall state that,
34 based on information and belief formed after reasonable inquiry,
35 the statements and information in the document are true,
36 accurate, and complete. The certification that is submitted by

1 ~~the-owner-or-operator~~ with a registration permit application
2 must additionally state that the stationary source will be
3 operated in compliance with all applicable requirements, and
4 shall be signed by a responsible official of both the owner and
5 the operator of the stationary source if they are not the same.

6 Subp. 5. **Registration permit issuance, denial, and**
7 **revocation.** The commissioner shall issue a registration permit
8 to the owner or operator of a stationary source if the owner or
9 operator has submitted a complete application for a registration
10 permit and the commissioner determines that the stationary
11 source qualifies for the registration permit under parts
12 7007.1110 to 7007.1130 for which the application was submitted,
13 and the commissioner anticipates that the stationary source will
14 comply with the registration permit. The commissioner shall
15 deny an application for a registration permit if the
16 commissioner determines that the stationary source does not
17 qualify for the registration permit under parts 7007.1110 to
18 7007.1130 for which the application was submitted or that the
19 stationary source will not be able to comply with the
20 registration permit. The grounds for permit denial in part
21 7007.1000, subpart 2, items B to G, also constitute grounds for
22 the commissioner to deny a registration permit application. The
23 commissioner may revoke a registration permit, if the
24 commissioner finds that any of the grounds under subpart 16 or
25 under part 7007.1700, subpart 1, exist, by following the
26 procedure in part 7007.1700, subpart 2.

27 Subp. 6. **Registration permit content.** A registration
28 permit shall identify the stationary source, the owner and
29 operator of the stationary source, where the stationary source
30 is allowed to operate, and shall state as follows: "The
31 permittee shall comply with Minnesota Rules, part 7007.1110,
32 part [insert 7007.1115, 7007.1120, 7007.1125, or 7007.1130,
33 whichever one applies], and all applicable requirements."

34 Subp. 7. **Registration permit compliance requirements.** The
35 owner and operator of the stationary source issued a
36 registration permit, shall comply with:

1 A. this part including the general conditions in
2 subpart ~~20~~ 21;

3 B. part 7007.1115 (Option A), 7007.1120 (Option B),
4 7007.1125 (Option C), or 7007.1130 (Option D), whichever
5 applies; and

6 C. all applicable requirements.

7 **Subp. 8. Emission inventory required for stationary**
8 **sources issued registration permits.** The owner or operator of a
9 stationary source issued a registration permit under parts
10 7007.1110 to 7007.1130 must submit an annual emission inventory
11 to the commissioner under parts 7019.3000 to 7019.3010.

12 **Subp. 9. Record retention, access to records, and**
13 **inspections for stationary sources issued registration permits.**

14 A. The owner or operator of a stationary source
15 issued a registration permit under parts 7007.1110 to 7007.1130
16 must maintain at the stationary source for a period of five
17 years from the date the record was made all information required
18 to be recorded under applicable state and federal rules, and
19 part 7007.1115, 7007.1120, 7007.1125, or 7007.1130, whichever
20 part applies to the stationary source. The owner or operator
21 must make these records available for examination and copying
22 upon request of the commissioner, and must upon request submit
23 these records to the commissioner by the time specified by the
24 commissioner in the request.

25 B. The owner or operator of a stationary source
26 issued a registration permit under parts 7007.1110 to 7007.1130
27 must provide the commissioner, or an authorized representative
28 or agent of the commissioner, access to the stationary source
29 (including allowing the collection of samples), and records to
30 the extent provided under Minnesota Statutes, section 116.091,
31 or other law, upon presentation of credentials and other
32 documents required by law.

33 Nothing in this subpart shall be read to limit the
34 commissioner's, agency's, or administrator's authority under
35 Minnesota Statutes, section 116.091, section 114 of the act, or
36 other law.

1 Subp. 10. Changes or modifications at stationary sources
2 issued registration permits that trigger certain new source
3 performance standards. If a change or modification made at a
4 stationary source issued a registration permit results in the
5 stationary source being subject to a new source performance
6 standard listed under subpart 2, item B, or if the change or
7 modification adds an emissions unit subject to the standards
8 listed in part 7007.0300, the owner or operator must submit to
9 the commissioner:

10 A. the information required by the standard in the
11 time specified in the standard;

12 B. with the notice in item A, a written notice
13 containing a description of the change if the change triggers a
14 new source performance standard; and

15 C. with the notice in item A, a copy of the
16 applicable new source performance standard, with the applicable
17 portions of the new source performance standard (NSPS)
18 highlighted (including applicable parts of Code of Federal
19 Regulations, title 40, part 60, subpart A, General Provisions),
20 or an NSPS checklist form provided by the commissioner that
21 identifies applicable portions of the new source performance
22 standard.

23 Subp. 11. Change rendering stationary source ineligible
24 for a registration permit or that changes the applicable
25 registration permit option. If the owner or operator makes a
26 change at a stationary source issued a registration permit which
27 increases emissions, including a change described in subpart 10,
28 and results in the stationary source no longer being able to
29 qualify for or meet the requirements for its registration
30 permit, and the change is not a modification, as defined in part
31 7007.0100, subpart 14, then the owner or operator must:

32 A. within 30 days of making the change, submit a
33 written notification to the commissioner that includes a
34 description of the change, and a statement of what type of
35 permit application the owner or operator will submit; and

36 B. if the change results in the requirement for the

1 submittal of a registration permit application under a different
2 option, then the registration permit application shall be
3 submitted with the 30-day notice required under item A, or
4 within ~~90~~ 180 days of making the change, submit the
5 required part 70, state, or general permit application.

6 If the owner or operator fails to submit the required
7 permit application in the time required by this subpart, the
8 owner or operator shall lose its right to operate the stationary
9 source and shall be considered to be in violation of part
10 7007.0150, subpart 1. Once a stationary source has made a
11 change rendering it ineligible for all registration permit
12 options under parts 7007.1110 to 7007.1130, the stationary
13 source may only become eligible for a registration permit again
14 if it meets the requirements of subpart 14.

15 Subp. 12. **Modification rendering stationary source**
16 **ineligible for its current registration permit option.** Items A
17 to C apply to the owner or operator of a stationary source that
18 has been issued a registration permit and that wants to make a
19 modification which results in the stationary source no longer
20 being able to meet the requirements for the registration permit
21 option for which it was issued a registration permit, but which
22 will result in the stationary source being eligible for another
23 registration permit option.

24 A. The owner or operator must submit the required
25 permit application to the commissioner before beginning actual
26 construction on the modification.

27 B. The owner or operator may begin actual
28 construction on and commence operation of the modification
29 proposed in the permit application seven working days after the
30 permit application is received by the commissioner.

31 C. Until the commissioner acts on the permit
32 application, the owner or operator must comply with the
33 requirements of the registration permit option for which the
34 owner or operator applied, and all applicable requirements.
35 During this time period, the owner or operator need not comply
36 with the registration permit requirements specific to the option

1 under which the owner or operator currently holds a registration
2 permit.

3 Subp. 13. **Modification rendering stationary source**
4 **ineligible for a registration permit.** The owner or operator of
5 a stationary source that has been issued a registration permit
6 must submit a part 70, state, or general permit application
7 before making a modification which results in the stationary
8 source no longer qualifying for any registration permit option
9 under parts 7007.1110 to 7007.1130. The owner or operator may
10 not begin actual construction on the modification until the
11 required part 70, state, or general permit for the stationary
12 source is obtained, or an installation and operation permit for
13 the modification is obtained under part 7007.0750, subpart 5.
14 Once a stationary source has made a modification rendering it
15 ineligible for all registration permit options under parts
16 7007.1110 to 7007.1130, the stationary source may only become
17 eligible for a registration permit again if it meets the
18 requirements of subpart 14.

19 Subp. 14. **Addition of control equipment, removal of**
20 **emission units, or pollution prevention practices which result**
21 **in or reinstate registration permit eligibility.** If through the
22 addition of listed control equipment, permanent removal of
23 emissions units, or implementation of pollution prevention
24 practices the stationary source qualifies for or reinstates
25 eligibility for a registration permit under parts 7007.1110 to
26 7007.1130, the owner or operator may apply for a registration
27 permit. If the stationary source qualifies for or reinstates
28 eligibility for a registration permit due to implementation of
29 pollution prevention practices, the owner or operator shall
30 submit a description of the pollution prevention practices with
31 the registration permit application for the commissioner's
32 review and approval. For purposes of this subpart, "pollution
33 prevention practices" means eliminating or reducing the quantity
34 or toxicity of regulated air pollutants, or hazardous air
35 pollutants that are not regulated air pollutants, used by or
36 emitted from the stationary source. Emission reductions are not

1 reductions if the decrease is solely the result of a decrease in
2 production at the stationary source.

3 Subp. 15. Change of ownership or control of stationary
4 source issued a registration permit. Prior to a change in the
5 ownership or control of a stationary source issued a
6 registration permit under parts 7007.1110 to 7007.1130, the new
7 owner or operator must ~~apply-for-and-obtain-a-registration~~
8 ~~permit-for-the-stationary-source~~ submit a change of ownership
9 form provided by the commissioner. If the commissioner
10 determines that the owner or operator meets the requirements of
11 parts 7007.1110 to 7007.1130 for registration permit issuance,
12 then the commissioner shall issue the registration permit to the
13 new owner or operator.

14 Subp. 16. Application for a different type of permit. The
15 owner or operator shall submit an application for a part 70,
16 state, or general permit, or a different registration permit
17 option, within 120 days of the commissioner's written request
18 for the application if the commissioner determines that:

19 A. the stationary source has a history of
20 noncompliance with applicable requirements or with its
21 registration permit;

22 B. the stationary source does not qualify for a
23 registration permit;

24 C. the stationary source qualifies for a different
25 registration permit option under parts 7007.1110 to 7007.1130;
26 or

27 D. the applicable requirements to which the
28 stationary source is subject are about to or have changed
29 substantially.

30 Subp. 17. Voiding an existing permit. The commissioner
31 shall void a part 70 or state permit for a stationary source
32 which is issued a registration permit. A stationary source
33 which is covered under the terms of a general permit is no
34 longer covered by the general permit when it is issued a
35 registration permit. The commissioner shall void a registration
36 permit issued under one registration permit option for a

1 stationary source that is issued a registration permit for a
2 different registration permit option. The commissioner shall
3 void a registration permit for a stationary source that is
4 issued a part 70, state or general permit.

5 Subp. 18. **No circumvention; permit shield.**

6 A. The owner or operator of a stationary source that
7 obtains a registration permit shall be subject to enforcement
8 action for operation without a permit if the commissioner later
9 determines that the stationary source does not qualify for the
10 registration permit.

11 B. The permit shield under part 7007.1800 shall not
12 apply to registration permits.

13 Subp. 19. **List of registration permit facilities.** The
14 commissioner shall make available to the public upon request a
15 list of facilities that have been issued registration permits
16 under parts 7007.1110 to 7007.1130.

17 Subp. 20. **Operation in more than one location.** If
18 requested by the applicant, the registration permit may allow a
19 stationary source to be operated in more than one location. If
20 more than one location is proposed by the permittee, the
21 permittee shall:

22 A. include in the application an identification of
23 all geographic areas where the stationary source is authorized
24 to operate during the course of the permit; and

25 B. notify the commissioner at least ten days in
26 advance of each change in location, providing the exact location
27 where the source will operate.

28 **Subp. 21. Registration permit; general conditions.**

29 Registration permits issued by the commissioner under parts
30 7007.1110 to 7007.1130 shall include the general conditions in
31 items A to O, which are included in the permit by reference to
32 part 7007.1110 as a whole.

33 A. Unchallenged provisions of the permit remain valid
34 despite any successful challenges to specific portions of the
35 permit.

36 B. The permittee must comply with all conditions of

1 the permit. Any permit noncompliance constitutes a violation of
2 state law and, if the provision is federally enforceable, of the
3 act. Such violation is grounds for enforcement action by the
4 commissioner, the agency, or the EPA; or for permit revocation.

5 C. It is not a defense for a permittee in an
6 enforcement action that it would have been necessary to halt or
7 reduce the permitted activity in order to maintain compliance
8 with the conditions of the permit.

9 D. The permit may be revoked for cause as provided in
10 subpart 5. The filing of a request by the permittee for a
11 different type of permit, a different registration permit
12 option, for revocation or termination of this permit, or for a
13 notification of planned changes or anticipated noncompliance
14 does not stay any permit condition, except as specifically
15 provided in subpart 12.

16 E. The permit does not convey any property right of
17 any sort, or any exclusive privilege.

18 F. The permittee shall furnish to the commissioner,
19 within a reasonable time, any information that the commissioner
20 may request in writing to determine whether cause exists for
21 revoking the permit or to determine compliance with the permit.
22 Upon request, the permittee shall also furnish to the
23 commissioner copies of records to be kept by the permittee.

24 G. The commissioner's issuance of the permit does not
25 release the permittee from any liability, penalty, or duty
26 imposed by Minnesota or federal statutes or rules or local
27 ordinances, except the obligation to obtain a permit.

28 H. The commissioner's issuance of the permit does not
29 prevent the future adoption by the agency of pollution control
30 rules, standards, or orders more stringent than those now in
31 existence and does not prevent the enforcement of these rules,
32 standards, or orders against the permittee.

33 I. The commissioner's issuance of the permit does not
34 obligate the commissioner to enforce local laws, rules, or plans
35 beyond that authorized by Minnesota statutes.

36 J. The permittee shall at all times properly operate

1 and maintain the facilities and systems of treatment and control
2 and the appurtenances related to them which are installed or
3 used by the permittee to achieve compliance with the conditions
4 of the permit. Proper operation and maintenance includes
5 effective performance, adequate funding, adequate operator
6 staffing and training, and adequate laboratory and process
7 controls, including appropriate quality assurance procedures.

8 K. The permittee may not knowingly make a false or
9 misleading statement, representation, or certification in a
10 record, report, plan, or other document required to be submitted
11 to the commissioner by the permit. The permittee shall
12 immediately upon discovery report to the commissioner an error
13 or omission in these records, reports, plans, or other
14 documents. The permittee may not falsify, tamper with, render
15 inaccurate, or fail to install any monitoring device or method
16 required to be maintained or followed by the permit.

17 L. The permittee shall, when requested by the
18 commissioner, submit within a reasonable time any information
19 and reports that are relevant to pollution or the activities
20 authorized under the permit.

21 M. If the permittee discovers, through any means,
22 including notification by the commissioner, that noncompliance
23 with a condition of the permit has occurred, the permittee shall
24 immediately take all reasonable steps to minimize the adverse
25 impact on human health or the environment resulting from the
26 noncompliance.

27 N. The permit is not transferable to any person.

28 O. The permit authorizes the permittee to perform the
29 activities described in the permit under the conditions of the
30 permit. In issuing the permit, the state, the agency, and the
31 commissioner assume no responsibility for damages to persons,
32 property, or the environment caused by the activities of the
33 permittee in the conduct of its actions, including those
34 activities authorized, directed, or undertaken under the
35 permit. To the extent the state, the agency, and the
36 commissioner may be liable for the activities of its employees,

1 that liability is explicitly limited to that provided in the
2 Tort Claims Act, Minnesota Statutes, section 3.376.

3 Subp. ~~21~~ 22. Parts that do not apply to registration
4 permits. Parts 7007.0500 to 7007.0950; 7007.1000, subpart 1;
5 7007.1100; 7007.1150 to 7007.1250; 7007.1350 to 7007.1650; and
6 7007.1800 do not apply to registration permits under parts
7 7007.1110 to 7007.1130.

8 7007.1115 REGISTRATION PERMIT OPTION A.

9 Subpart 1. **Eligibility.** The owner or operator of a
10 stationary source may apply for a registration permit under this
11 part if the stationary source is required to obtain a permit
12 solely because it is subject to a new source performance
13 standard listed in part 7007.1110, subpart 2, item B, and the
14 owner or operator does not anticipate making changes in the next
15 year which will cause the stationary source to require a permit
16 for other reasons. Insignificant activities at the stationary
17 source listed in part 7007.1300 are not considered in the
18 eligibility determination under this subpart.

19 Subp. 2. **Application content.** An application for a
20 registration permit under this part must contain the following:

21 A. information identifying the stationary source and
22 its owner or operators, including company name and address
23 (plant name and address if different from the company name),
24 owner's name and agent, and contact telephone numbers, including
25 names of plant site manager or contact, and the person preparing
26 the application if different;

27 B. a description of the stationary source's processes
28 and products, by Standard Industrial Classification (SIC) code;
29 and

30 C. a copy of the applicable new source performance
31 standards (NSPS) listed in part 7007.1110, subpart 2, item B,
32 with the applicable portions of the standards highlighted,
33 including applicable parts of Code of Federal Regulations, title
34 40, part 60, subpart A, General Provisions, or an NSPS checklist
35 form provided by the commissioner, for each affected facility as

1 defined in Code of Federal Regulations, title 40, section 60.2.

2 Insignificant activities at the stationary source listed in
3 part 7007.1300 are not required to be included in the
4 application.

5 Subp. 3. **Compliance requirements.** The owner or operator
6 of a stationary source issued a registration permit under this
7 part must:

8 A. meet the eligibility requirements of subpart 1 at
9 all times;

10 B. comply with part 7007.1110; and

11 C. comply with all applicable requirements, including
12 new source performance standards.

13 7007.1120 REGISTRATION PERMIT OPTION B.

14 Subpart 1. **Eligibility.** The owner or operator of a
15 stationary source may apply for a registration permit under this
16 part if:

17 A. the stationary source purchases or uses less than
18 2,000 gallons of VOC-containing materials ~~in-any~~ on a 12-month
19 period rolling sum basis;

20 B. the only emissions from the stationary source are
21 from VOC-containing materials, ~~fugitive-emissions-from-roads-or~~
22 ~~parking-lots~~, or are from insignificant activities under part
23 7007.1300; and

24 C. the owner or operator does not anticipate making
25 changes in the next 12 months which will cause the stationary
26 source to purchase or use 2,000 gallons or more of
27 VOC-containing materials ~~in-any~~ on a 12-month period rolling sum
28 basis.

29 Subp. 2. **Application content.** An application for a
30 registration permit under this part must contain the following:

31 A. information identifying the stationary source and
32 its owners or operators, including company name and address
33 (plant name and address if different from the company name),
34 owner's name and agent, and contact telephone numbers, including
35 names of plant site manager or contact, and the person preparing

1 the application if different;

2 B. a description of the stationary source's processes
3 and products by Standard Industrial Classification (SIC) code;

4 C. a copy of the applicable new source performance
5 standards (NSPS) listed in part 7007.1110, subpart 2, item B,
6 with the applicable portions of the standards highlighted,
7 including applicable parts of Code of Federal Regulations, title
8 40, part 60, subpart A, General Provisions, or an NSPS checklist
9 form provided by the commissioner, for each affected facility as
10 defined in Code of Federal Regulations, title 40, section 60.2;

11 D. a statement of whether the owner or operator will
12 base records required under subpart 3 on the purchase or use of
13 VOC-containing materials; and

14 E. for stationary sources in operation on the
15 effective date of this part, the gallons of VOC-containing
16 materials purchased or used ~~in-the~~ on a 12-month period
17 ~~preceding-the-application~~ rolling sum basis. If the stationary
18 source has not been operated, the owner or operator shall
19 estimate the gallons of VOC-containing materials that will be
20 purchased or used ~~ever~~ on a 12-month period rolling sum basis
21 during normal operation using a worksheet provided by the ~~agency~~
22 commissioner. If the stationary source has been operated less
23 than 12 months on the ~~effective~~ date of application under this
24 part, the owner or operator shall calculate gallons of
25 VOC-containing materials purchased or used by multiplying 12
26 months by the larger of the two following monthly averages:

27 (1) the average monthly gallons purchased or
28 used; or

29 (2) the estimated average monthly gallons
30 purchased or used for normal operation.

31 Insignificant activities at the stationary source listed in
32 part 7007.1300 are not required to be included in the
33 application.

34 Subp. 3. **Compliance requirements.** The owner or operator
35 of a stationary source issued a registration permit under this
36 part shall:

1 A. record each month the amount of VOC-containing
2 materials purchased or used (whichever was stated in the permit
3 application) during that calendar month;

4 B. recalculate and record each month ~~for-the-previous~~
5 ~~12-months~~ the ~~total-amount~~ 12-month rolling sum of
6 VOC-containing materials purchased or used (whichever was stated
7 in the permit application), the date the calculation was made,
8 and the calculation itself;

9 C. record qualification monthly by comparing the
10 12-month rolling sum for the purchase or use (whichever was
11 stated in the permit application) ~~less-than-2,000-gallons~~ of
12 VOC-containing materials ~~in-any-12-month-period~~ to the 2,000
13 gallon limit;

14 D. have emissions from the stationary source only
15 from VOC-containing materials, from fugitive emissions from
16 roads or parking lots, or from insignificant activities under
17 part 7007.1300;

18 E. comply with part 7011.1110; and

19 F. comply with all applicable requirements, including
20 new source performance standards.

21 7007.1125 REGISTRATION PERMIT OPTION C.

22 Subpart 1. Eligibility. The owner or operator of a
23 stationary source may apply for a registration permit under this
24 part if the stationary source consists of only indirect heating
25 units (boilers), reciprocating internal combustion engines,
26 ~~fugitive-emissions-from-roads-and-parking-lots~~, and/or VOC
27 emissions from use of VOC-containing materials, and meets the
28 following criteria:

29 A. all emissions units at the stationary source are
30 included under calculations 1, 2A, 2B, and 3 in subpart 4, or
31 are insignificant activities under part 7007.1300;

32 B. all fuels burned at the stationary source are
33 listed in Table 1 or 2 of subpart 4;

34 C. the stationary source does not burn fuels which
35 exceed the sulfur limits listed in Table 1 or 2 in subpart 4;

1 D. the 12-month rolling sum of calculations
2 determined under calculations 1, 2A, 2B, and 3 in subpart 4 is
3 less than 100; and

4 E. the owner or operator does not anticipate making
5 changes in the next 12 months which will cause the ~~sum-of~~
6 ~~calculations-determined-under-calculations-1,2A,2B, and-3-in~~
7 ~~subpart-4-to-exceed-100~~ stationary source to be ineligible for
8 this type of registration permit as set forth under items A to D.

9 Subp. 2. **Application content.** An application for a
10 registration permit under this part must contain the following:

11 A. information identifying the stationary source and
12 its owners or operators, including company name and address
13 (plant name and address if different from the company name),
14 owner's name and agent, and contact telephone numbers, including
15 names of plant site manager or contact, and the person preparing
16 the application if different;

17 B. a description of the stationary source's processes
18 and products, by Standard Industrial Classification (SIC) code;

19 C. a copy of the applicable new source performance
20 ~~standard-or~~ standards (NSPS) listed in part 7007.1110, subpart
21 2, item B, with the applicable portions of the standards
22 highlighted, including applicable parts of Code of Federal
23 Regulations, title 40, part 60, subpart A, General
24 Provisions, or an NSPS checklist form provided by the
25 commissioner, for each affected facility as defined in Code of
26 Federal Regulations, title 40, section 60.2;

27 D. a statement of whether the owner or operator will
28 base records required under subpart 3 on the purchase or the use
29 of VOC-containing materials, on the purchase or use of fuels,
30 and on hours of operation; and

31 E. the calculations required by subpart 4. If the
32 stationary source has not been operated, the owner or operator
33 shall estimate the gallons of VOC-containing materials, amount
34 of fuels burned and hours of operation ~~for~~ on a 12-month period
35 rolling sum basis during normal operation in performing the
36 calculations required in subpart 4. If the stationary source

1 has been operated less than 12 months on the **effective** date of
2 application under this part, the owner or operator shall perform
3 the calculation in subpart 4 by calculating gallons of
4 VOC-containing materials purchased or used, amount of fuels
5 purchased or used, or hours of operation by multiplying by 12
6 the larger of the following:

7 (1) the average monthly gallons of VOC-containing
8 materials purchased or used, amount of fuel purchased or used,
9 or hours of operation; or

10 (2) calculating an estimated monthly average for
11 normal operations.

12 Insignificant activities at the stationary source listed in
13 part 7007.1300 are not required to be included in the
14 application.

15 Subp. 3. **Compliance requirements.** The owner or operator
16 of a stationary source issued a registration permit under this
17 part shall comply with all of the requirements in items A to ~~F~~ J.

18 A. If the stationary source qualified in the permit
19 application, in whole or in part, by calculating VOC actual
20 emissions from VOC-containing materials purchased or used
21 (whichever was stated in the permit application) in calculation
22 3 in subpart 4, the owner or operator must:

23 (1) record each month, the amount of each
24 VOC-containing material purchased or used (whichever was stated
25 in the permit application), and the maximum VOC content;

26 (2) maintain a record of the material data safety
27 sheet (MSDS), or a signed statement from the supplier stating
28 the maximum VOC content, for each VOC-containing material
29 purchased or used (whichever was stated in the permit
30 application); and

31 (3) using calculation 3 in subpart 4, recalculate
32 and record each month ~~for the previous-12-months~~ 12-month
33 rolling sum of the actual VOC emissions from all VOC-containing
34 materials purchased or used (whichever was stated in the permit
35 application), ~~using-calculation-3-in-subpart-4~~, the date the
36 calculation was made, and the calculation itself.

1 B. If the stationary source qualified in the permit
2 application, in whole or in part, by using fuel burned in
3 calculation 1 or 2A in subpart 4, the owner or operator must,
4 ~~for each emission unit included in calculation 1 or 2A:~~

5 (1) for each unit type, record each month the
6 12-month rolling sum of the amount of each fuel purchased or
7 used (whichever was stated in the permit application);

8 (2) record the sulfur content of each fuel
9 purchased or used (whichever was stated in the permit
10 application), and maintain for each batch of fuel a record of
11 the vendor certifications of sulfur content or test results by
12 an independent laboratory using the ASTM method listed for the
13 fuel in Table 1 or Table 2 (whichever applies), if a sulfur
14 threshold is stated for that fuel in Table 1 or 2 in subpart 4;
15 and

16 (3) using calculations 1 and 2A in subpart 4, for
17 each unit type, recalculate and record each month the 12-month
18 rolling sum of emissions ~~for the preceding 12 months using~~
19 ~~calculations 1 and 2A of subpart 4~~, the date the calculation was
20 made, and the calculation itself.

21 C. If the stationary source qualified in the permit
22 application, in whole or in part, by using hours of operation in
23 calculation 2B in subpart 4, the owner or operator must, for
24 each emissions unit included in calculation 2B:

25 (1) record each month the hours operated, rounded
26 to the nearest hour; and

27 (2) using calculation 2B in subpart 4,
28 recalculate and record each month the 12-month rolling sum of
29 emissions for each emissions unit ~~for the preceding 12 months~~
30 ~~using calculation 2B in subpart 4~~, the date the calculation was
31 made, and the calculation itself.

32 D. The owner or operator must add together and record
33 each month the 12-month rolling sum of the calculations made in
34 items A to C.

35 E. The owner or operator must not burn any fuels at
36 the stationary source that are not listed in Table 1 or Table 2

1 of subpart 4, or that exceed the sulfur content limits listed in
2 Table 1 or Table 2.

3 F. The ~~number~~ 12-month rolling sum determined by the
4 calculation in item D shall not exceed 100 ~~in any 12-month~~
5 period.

6 G. The owner or operator must have emissions from the
7 stationary source only from indirect heating units (boilers),
8 from reciprocating internal combustion engines, from fugitive
9 emissions from roads or parking lots, from insignificant
10 activities under part 7007.1300, and/or from use of
11 VOC-containing materials.

12 H. The owner or operator must comply with part
13 7011.1110.

14 I. The owner or operator must comply with all
15 applicable requirements, including new source performance
16 standards.

17 J. The owner or operator shall keep the following
18 information on site for emission points venting emission units
19 included in subpart 4, calculation 1, which burn coke, wood,
20 bark, number 5 or 6 residual oil, or number 4 distillate oil:

21 (1) the location of the emission points;

22 (2) the potential emissions, as defined in part
23 7007.0150, subpart 4, item A, in pounds per hour of sulfur
24 dioxide and PM-10; and

25 (3) the gas flow rate and temperature, stack
26 height, and diameter.

27 Subp. 4. **Tables and calculations.** The tables and
28 calculations in this subpart shall be used to determine whether
29 a stationary source is eligible for a registration permit under
30 this part. For the purposes for fuel specifications listed in
31 calculations 1 and 2A, the Annual Book of American Society for
32 Testing and Materials Standards (ASTM), 1916 Race Street,
33 Philadelphia, PA, 19103-1187, volumes 4.05, 5.01, 5.03, and 5.05
34 (1993) are incorporated by reference. ASTM is the author and
35 publisher. These publications are available through the Minitex
36 interlibrary loan system (University of Minnesota Library).

1 These documents are subject to frequent change.

2 **Calculation 1. Indirect Heating Emissions Units.** For
 3 stationary sources with indirect heating emissions units,
 4 multiply the amount 12-month rolling sum of each fuel used for
 5 the previous 12-month period, by the multiplication factor (MF)
 6 listed in Table 1. ~~For each indirect heating emissions unit~~
 7 ~~burning two or more different types of fuels, the owner or~~
 8 ~~operator shall perform this calculation for each fuel burned and~~
 9 Add the results of all the calculations to arrive at the
 10 calculation 1 total. The following formula determines the
 11 calculation 1 total:

12 STEP 1: fuel type used (in units specified) x MF = unit
 13 fuel type total

14 STEP 2: unit fuel type 1 total + unit fuel type 2 total +
 15 ... unit fuel type n total = Calculation 1 total

16 TABLE 1

17 FUEL USED (units burned/year)-[specification]	18 SULFUR LIMIT	19 MULTIPLICATION FACTOR (MF)
20 anthracite coal (tons)-[ASTM D 388(Vol 05.05)]	2.38%	4.64E-02
21 bituminous coal (tons)-[ASTM D 388(Vol 05.05)]	2.10%	4.10E-02
22 sub bituminous coal (tons)-[ASTM D 388	1.66%	2.91E-02
23 (Vol 05.05)]		
24 lignite A coal (tons)-[ASTM D 388(Vol 05.05)]	1.26%	1.89E-02
25 petroleum coke (tons)-[ASTM C 1160(Vol 04.05)]	2.33%	4.55E-02
26 untreated domestic wood and bark (tons)-	n/a	8.40E-03
27 [ASTM D 1165(Vol 04.09)]		
28 kerosene (gallons)-[ASTM D 3699(Vol 05.03)]	0.50%	3.59E-05
29 No. 1 and No. 2 distillate (gallons)-	0.50%	3.59E-05
30 [ASTM D 396(Vol 05.01)]		
31 No. 4 distillate (gallons)-	1.80%	1.35E-04
32 [ASTM D 396(Vol 05.01)]		
33 No. 5 and No. 6 residual (gallons)-	1.80%	1.43E-04
34 [ASTM D 396(Vol 05.01)]		
35 liquefied petroleum gas (LPG)	n/a	6.60E-06
36 (gallons)-[ASTM D 1835(Vol 05.01		
37 and 05.05)]		
38 dry or commercial pipeline natural gas	n/a	7.00E-08
39 (cubic feet)-this must be a mixture of		
40 ethane, methane, not more than five		
41 percent propane and not more than		
42 one percent butane		

1 Calculation 2. Reciprocating Internal Combustion Engine

2 Emission Units. A stationary source with one or more
 3 reciprocating internal combustion (RIC) engines shall, for each
 4 RIC engine, use either calculation 2A or 2B. Stationary sources
 5 with RIC engine emission units burning fuels not listed in Table
 6 2, however, must use calculation 2B.

7 Calculation 2A. RIC Engine Fuel Usage Calculation. For

8 stationary sources with one or more RIC engines, multiply the
 9 amount 12-month rolling sum of each fuel used ~~for-the-previous~~
 10 ~~12-month-period-for-each-RIC-engine~~ by the multiplication factor
 11 (MF) from Table 2. ~~For-RIC-engines-burning-two-or-more~~
 12 ~~different-types-of-fuels,-the-owner-or-operator-must-perform~~
 13 ~~this-calculation-for-each-fuel-burned-by-the-RIC-engine-and~~ Add
 14 the results of each calculation to determine the total for that
 15 RIC engine. The following formula determines the calculation 2A
 16 total:

17 STEP 1: fuel type used (in specified units) x MF = RIC
 18 engine fuel type total

19 STEP 2: RIC-engine fuel type 1 total + RIC-engine fuel
 20 type 2 total + ... RIC-engine fuel type n total = Calculation 2A
 21 total

22 TABLE 2

FUEL USED (units burned/year)-[specification]	SULFUR LIMIT	MULTIPLI- CATION FACTOR (MF)
No. 1 and No. 2 diesel, and kerosene (gallons)-[ASTM 975(Vol 05.01)]	0.5%	2.35E-04
liquefied petroleum gas (LPG) (gallons)-[ASTM D 1835(Vol 05.01 and 05.05)]	n/a	6.95E-05
dry or commercial pipeline natural gas (cubic feet)-[as defined in Table 1]	n/a	1.70E-06

37 Calculation 2B. RIC Engine Operating Hours Calculation.

38 For stationary sources with one or more RIC engines, multiply
 39 the design capacity of the engine in horsepower by the 12-month
 40 rolling sum of hours operated ~~for-the-previous-12-month-period~~
 41 and by the multiplication factor 1.22E-05. The owner or
 42 operator shall perform this calculation for each RIC engine,
 43 then add the results of all the calculations to arrive at the

1 calculation 2B total. The following formula determines the
2 calculation 2B total:

3 STEP 1: engine horsepower design capacity x hours operated
4 x 1.22E-05 = RIC engine total

5 STEP 2: RIC engine 1 total + RIC engine 2 total + ... RIC
6 engine n total = Calculation 2B total

7 **Calculation 3. VOC Emissions Units.** An owner or operator
8 of a stationary source which purchases or uses VOC-containing
9 materials shall, for each material purchased or used which
10 contains VOC, multiply a factor of ten by the weight factor (WF)
11 of the VOC in the material (weight of VOC per weight of
12 VOC-containing material) by the density of the material (in
13 pounds per gallon) by the ~~number~~ 12-month rolling sum of gallons
14 of that material purchased or used ~~in-the-previous-12-month~~
15 ~~period~~. The owner or operator shall perform this calculation
16 for each material purchased or used which contains VOC
17 (including VOC purchased or used for cleaning) and add the
18 results of the calculations to arrive at the calculation 3
19 total. In determining the WF and the density, the owner or
20 operator shall use the maximum listed in the material safety
21 data sheets (MSDS) or a signed statement from the supplier for
22 each VOC-containing material. The following formula determines
23 the calculation 3 total:

24 STEP 1: 10 [WF x density of the material (lb/gal) x (1
25 ton/2,000 lb) x the 12-month rolling sum of material purchased
26 or used (gallons) ~~for-the-previous-12-month-period~~] = material
27 total

28 STEP 2: material 1 + material 2 + ... material n total =
29 Calculation 3 total

30 7007.1130 REGISTRATION PERMIT OPTION D.

31 **Subpart 1. Eligibility.** The owner or operator of a
32 stationary source may apply for a registration permit under this
33 part if the stationary source meets the following criteria:

34 A. all emissions units at the stationary source are
35 either included in calculations in subpart 4, or are

1 insignificant activities under part 7007.1300;

2 B. the 12-month rolling sum of actual emissions in
3 ~~any-12-month-period~~ at the stationary source for each pollutant
4 are less than the thresholds in subpart 5; and

5 C. the owner or operator does not anticipate making
6 changes in the next year which will cause the stationary
7 source's 12-month rolling sum of actual emissions to exceed any
8 threshold in tons per year listed in subpart 5.

9 Subp. 2. **Application content.** An application for a
10 registration permit under this part must contain all of the
11 following requirements:

12 A. information identifying the stationary source and
13 its owners or operators, including company name and address
14 (plant name and address if different from the company name),
15 owner's name and agent, and contact telephone numbers, including
16 names of plant site manager or contact, and the person preparing
17 the application if different;

18 B. a description of the stationary source's processes
19 and products, by Standard Industrial Classification (SIC) code;

20 C. a copy of the applicable new source performance
21 standards (NSPS) listed in part 7007.1110, subpart 2, item B,
22 with the applicable portions of the standards highlighted,
23 including applicable parts of Code of Federal Regulations, title
24 40, part 60, subpart A, General Provisions, or an NSPS checklist
25 form provided by the commissioner, for each affected facility as
26 defined in Code of Federal Regulations, title 40, section 60.2;

27 D. a statement of whether the owner or operator will
28 base records required under subpart 3 on the purchase or the use
29 of VOC-containing or hazardous air pollutant-containing
30 materials and on the purchase or use of fuels;

31 E. the calculations required by subpart 4, and the
32 total actual emissions per pollutant that result from those
33 calculations. If the stationary source has not been operated,
34 the owner or operator shall estimate actual emissions during
35 normal operation in performing the calculations required by
36 subpart 4. If the stationary source has been operated less than

1 12 months on the **effective** date of application under this part,
2 the owner or operator shall estimate actual emissions by
3 multiplying by 12 the larger of the following:

4 (1) the average monthly actual emissions; or

5 (2) the estimated average monthly actual
6 emissions during normal operation; and

7 F. if the calculations required by subpart 4 used
8 control equipment efficiencies for listed control equipment
9 determined by part 7011.0070, a copy of the portion of the
10 control equipment manufacturer's specifications with the
11 operating parameters required to be monitored under part
12 7011.0080 highlighted, and if the efficiency is based on an
13 alternative control efficiency under part 7011.0070, subpart 2,
14 a copy of the performance test plan with the operating
15 parameters highlighted.

16 Insignificant activities at the stationary source listed in
17 part 7007.1300 are not required to be included in the
18 application.

19 Subp. 3. **Compliance requirements.** The owner or operator
20 of a stationary source issued a permit under this part shall
21 comply with all of the requirements in items A to F J.

22 A. If the stationary source qualified in the permit
23 application, in whole or in part, by calculating VOC and
24 hazardous air pollutant actual emissions from VOC-containing or
25 hazardous air pollutant-containing materials, purchased or used
26 (whichever was stated in the permit application), the owner or
27 operator must:

28 (1) record each month, the amount of each
29 VOC-containing or hazardous air pollutant-containing material
30 purchased or used (whichever was stated in the permit
31 application), and the VOC and hazardous air pollutant content;

32 (2) maintain a record of the material data safety
33 sheet (MSDS), or a signed statement from the supplier stating
34 the maximum VOC or hazardous air pollutant content, for each
35 VOC-containing or hazardous air pollutant-containing material
36 purchased or used (whichever was stated in the permit

1 application); and

2 (3) recalculate and record each month ~~for the~~
3 ~~previous-12-months~~, the 12-month rolling sum of actual VOC and
4 hazardous air pollutant emissions from VOC-containing and
5 hazardous air pollutant-containing materials purchased or used
6 (whichever was stated in the permit application), the date the
7 calculation was made, and the calculation itself.

8 B. If the stationary source qualified in the permit
9 application, in whole or in part, by using fuel burned in the
10 calculations in subpart 4, the owner or operator must:

11 (1) record each month the amount of each fuel
12 purchased or used (whichever was stated in the permit
13 application); and

14 (2) recalculate and record each month the
15 12-month rolling sum emissions ~~for the preceding-12-months~~, the
16 date the calculation was made, and the calculation itself.

17 C. If the stationary source qualified in the permit
18 application, in whole or in part, by using hours of operation in
19 the calculations in subpart 4, the owner or operator must:

20 (1) record each month the hours operated for each
21 emissions unit, rounded to the nearest hour; and

22 (2) recalculate and record each month the
23 12-month rolling sum emissions ~~for the preceding-12-months~~, the
24 date the calculation was made, and the calculations itself.

25 D. If the stationary source qualified in the permit
26 application, in whole or in part, by calculating actual
27 emissions under subpart 4 based on the quantity of material
28 handled or throughput, or product produced, the owner or
29 operator must:

30 (1) record each month for each material handled
31 or throughput and for each product produced, the amount of the
32 material handled or throughput and the amount of product
33 produced; and

34 (2) recalculate and record each month ~~for the~~
35 ~~previous-12-month-period~~ for each material handled or throughput
36 and for each product produced, the 12-month rolling sum of

1 emissions, the date the calculation was made, and the
2 calculation itself.

3 E. The owner or operator must recalculate and record
4 each month ~~for the previous 12 months~~, pursuant to subpart 4,
5 the 12-month rolling sum of actual emissions from the stationary
6 source, the date the calculation was made, and the calculation
7 itself. This calculation must include all emissions units at
8 the stationary source, except for insignificant activities under
9 part 7007.1300, and the information required by subpart 4, item
10 B, subitem (2), if continuous emissions monitor (CEM) data is
11 used in the calculation.

12 F. If the stationary source qualified in the permit
13 application, in whole or in part, by using control equipment
14 efficiencies for listed control equipment determined under part
15 7011.0070, the owner or operator shall comply with parts
16 7011.0060 to 7011.0080. If the calculations required by subpart
17 4 used control equipment efficiencies based on an alternative
18 control efficiency under part 7011.0070, subpart 2, the owner or
19 operator shall also comply with the operating parameters of the
20 performance test that established the alternative control
21 efficiency.

22 G. The 12-month rolling sum of actual emissions from
23 the stationary source determined pursuant to subpart 4 must not
24 exceed the thresholds in subpart 5 for any pollutant ~~in any~~
25 ~~12-month-period~~.

26 H. Comply with part 7011.1110.

27 I. Comply with all applicable requirements including
28 new source performance standards.

29 J. If the calculation of actual emissions required by
30 subpart 2, item E, for the application or by subpart 3, item E,
31 for compliance verification exceeds five tons per year of sulfur
32 dioxide or particulate matter less than ten microns, the owner
33 or operator shall keep the following at the stationary source
34 for all emission points venting to these emission units:

35 (1) the location of the emission points;

36 (2) the potential emissions, as defined in part

1 7007.0150, subpart 4, in pounds per hour of sulfur dioxide and
 2 PM-10; and

3 (3) the gas flow rate and temperature, stack
 4 height, and diameter.

5 Subp. 4. Calculation of actual emissions. ~~To calculate~~
 6 ~~actual-emissions-under-this-part,~~ The owner or operator of a
 7 stationary source ~~shall~~ may use a calculation worksheet provided
 8 by the commissioner for calculating actual emissions under this
 9 part, or may use the calculation methods under items A to
 10 E. The owner or operator must calculate actual emissions for
 11 each emissions unit, except that similar emissions units may be
 12 aggregated for emission calculation purposes. The owner or
 13 operator of a stationary source shall use the calculation method
 14 in item B instead of the calculation method in item A if the
 15 data described in item B are available for the stationary source.
 16 The alternative methods described in items C, D, and E may be
 17 used by the owner or operator without advance notification to
 18 the commissioner. The commissioner shall reject data submitted
 19 using the methods described in items B to E if the conditions
 20 set forth for the method are not fully met. To prevent double
 21 counting of emissions, the owner or operator must select one
 22 calculation method under this subpart for each emissions unit at
 23 the stationary source. Fugitive emissions must be included in
 24 the calculations under this subpart, ~~except for fugitive~~
 25 ~~emissions from roads and parking lots at the stationary source.~~
 26 For purposes of this subpart, "emission factor" has the meaning
 27 given in part 7007.1200, subpart 3, item B.

28 A. ~~Under this subpart, owners and operators of~~
 29 ~~stationary sources must calculate actual emissions for each~~
 30 ~~emissions unit for each pollutant.~~ All calculations of actual
 31 emissions required under this part shall be based on the
 32 stationary source's operating parameters, and must use the
 33 following equation:

34 $E = OP \times EF \times [1 - CE]$, where

35 E = Actual Emissions in tons per year

36 OP = Operating Parameter as required by the Emission Factor

1 (hours of operation or units produced)

2 EF = Emission Factor (pounds of pollutant per hour of
3 operation or units produced). ~~The emission factor used in this
4 calculation shall be an EPA emission factor.~~

5 CE = Control Efficiency (percent expressed as a decimal
6 fraction of 1.00) determined according to part 7011.0070.

7 B. If the owner or operator of the stationary source
8 has collected emissions data through use of a continuous
9 emission monitor (CEM), the owner or operator shall use the CEM
10 data to calculate actual emissions, if the following
11 requirements are met:

12 (1) the owner or operator must have operated the
13 CEMs at the stationary source in compliance with all of the
14 requirements of parts 7017.1000; 7019.1000 and 7019.2000; any
15 other applicable state rules or federal regulations pertaining
16 to CEM operation; and all applicable air emission permit
17 conditions;

18 (2) the total operating time of the applicable
19 emissions unit and the total operating time of the CEM for the
20 previous 12 consecutive months must be included in the permit
21 application and in the monthly records required in subpart 3;
22 and

23 (3) an explanation of how the emissions were
24 calculated based on the CEM data must be included in the permit
25 application and in the monthly records required in subpart 3.
26 In calculating actual emissions, the owner or operator must use
27 the rated capacity of the flow unless the CEM provides actual
28 data on the flow rate. For CEM downtime, this calculation must
29 apply EPA emission factors, performance test data as specified
30 in item C, or the method of reporting CEM downtime specified in
31 Code of Federal Regulations, title 40, part 75 (Acid Rain
32 Program, Continuous Emission Monitoring). This method may be
33 used by any stationary source with a CEM, regardless of whether
34 federal regulations require use of the CEM.

35 C. Emission factors from performance tests may be
36 used for the calculation of actual emissions, provided that the

1 performance tests met all the requirements of parts 7017.2001 to
2 7017.2060, and all other applicable state rules and federal
3 regulations governing performance tests.

4 D. A material balance method may be used to calculate
5 VOC actual emissions. The owner or operator of a stationary
6 source that uses material balance to calculate VOC actual
7 emissions shall determine total VOC actual emissions (E) using
8 the following equation:

9 $E = (a - b - c) \times (1 - d)$, where

10 a = the amount of VOC entering the process. A signed
11 statement from the supplier or the material safety data sheet
12 must be submitted stating the maximum amount of VOC in any
13 material that was used in the process.

14 b = the amount of VOC incorporated permanently into the
15 product. This includes VOCs chemically transformed in
16 production. It does not include latent VOC remaining in the
17 product that will at some time be released to the atmosphere.
18 An explanation of this calculation must also be submitted.

19 c = the amount of VOC, if any, leaving the process as
20 waste, or otherwise not incorporated into the product and not
21 emitted to the air.

22 d = the control efficiency (percent expressed as a decimal
23 fraction of 1.00) determined according to part 7011.0070.

24 E. The owner or operator of a stationary source may
25 determine sulfur dioxide actual emissions by measuring the
26 sulfur content of the fuel and assuming that all of the sulfur
27 in the fuel is oxidized to sulfur dioxide. The sulfur content
28 of each batch of fuel received must be measured by an
29 independent laboratory using ASTM methods or verified by vendor
30 certification. The sulfur dioxide actual emissions shall be
31 determined for each batch of fuel received by using the
32 following equation:

33 $SO_2 = \%S/100 \times F/2,000 \times 2$, where

34 SO_2 = Sulfur dioxide emissions from a batch of fuel.

35 $\%S$ = Weight percent sulfur in the fuel being burned.

36 F = Amount of fuel burned by weight in pounds.

1 2,000 = Pounds per ton.

2 2 or 64/32 = Pounds of sulfur dioxide per pound of sulfur
 3 in one pound-mole.

4 The total sulfur dioxide emissions for the year shall be
 5 the sum total of the individual batch totals.

6 Subp. 5. **Emissions thresholds.** The owner or operator must
 7 calculate actual emissions for the stationary source using the
 8 calculations under subpart 4 and the calculated 12-month rolling
 9 sum of actual emissions must be below the thresholds listed in
 10 Table 3.

11 TABLE 3

12 OPTION D EMISSIONS THRESHOLDS

13 POLLUTANT	14 THRESHOLD (ton/year)
15 HAP	16 5 tons/year for a single HAP 17 12.5 tons/year total for all HAPs
18 PM	19 50 tons/year
20 PM-10	21 50 tons/year for an Attainment Area 22 25 tons/year for a Nonattainment Area
23 VOC	24 50 tons/year
25 SO ₂	26 50 tons/year
NO _x	50 tons/year
CO	50 tons/year
Pb	0.5 tons/year

27 7007.1150 WHEN A PERMIT AMENDMENT IS REQUIRED.

28 [For text of items A and B, see M.R.]

29 C. A written notice to the agency shall be sent by
 30 any person who, at a permitted stationary source, makes a change
 31 that: (i) ~~installs~~ does not increase emissions of any regulated
 32 air pollutant; (ii) does not constitute a title I modification;
 33 and (iii) does not constitute any other type of modification, if
 34 the change is one of the following:

35 (1) installing air pollution control equipment
 36 that does not constitute a title I modification or a
 37 modification, or (ii) replaces;

38 (2) replacing a unit identified in the
 39 permit with one that does not increase emissions of any
 40 regulated air pollutant and does not constitute a title I
 41 modification or a modification, shall provide written notice to
 42 the agency; and

1 (3) replacing air pollution control equipment
2 with listed control equipment, as defined in part 7011.0060,
3 subpart 4, which has an equivalent or better removal efficiency
4 of regulated pollutants previously controlled with the
5 replacement control equipment.

6 The written notice must be received by the agency seven
7 working days prior to the installation or replacement. The
8 permittee and the agency shall attach the notice to the
9 stationary source's permit. If the agency finds that the
10 installation or replacement triggers new monitoring, record
11 keeping, or reporting requirements under applicable requirements
12 or parts 7007.0100 to 7007.1850, the agency shall initiate an
13 amendment under part 7007.1400 or 7007.1500 to include the new
14 requirements. If the installation or replacement constitutes a
15 title I modification or other type of modification, this item
16 does not apply, and the permittee shall follow the applicable
17 procedures of part 7007.1250, 7007.1350, 7007.1450, or
18 7007.1500. If notice is provided as required by this item, the
19 installation and operation of the additional equipment shall not
20 be considered a violation of the permit.

21 [For text of items D to F, see M.R.]

22 7007.1200 CALCULATING EMISSION CHANGES FOR PERMIT AMENDMENTS.

23 Subpart 1. **How to calculate emission changes.** When this
24 part is required to be used, the method of calculation in
25 subpart 2 must be used to determine first whether a modification
26 is a title I modification. To calculate emission changes for a
27 modification that is not a title I modification, the method in
28 subpart 3 shall then be used. To verify whether the
29 modification or other change at a stationary source might make
30 the stationary source subject for the first time to the
31 requirement to obtain a state or part 70 permit, the calculation
32 method in part 7007.0150, subpart 4, must be used.

33 Subp. 2. **Calculation methods to determine if the proposed**
34 **change is a title I modification.** To determine if a
35 modification is a title I modification, the applicable federal

1 calculation method must be used. To determine the applicable
2 methods to calculate emission changes for a title I
3 modification, the permittee must refer to the federal
4 regulations listed in part 7007.0100, subpart 26. Parts
5 7011.0060 to 7011.0080 may be used in this calculation if the
6 stationary source is in compliance with parts 7011.0060 to
7 7011.0080, except that control efficiencies for control
8 equipment with hoods under part 7011.0070 cannot be used. A
9 change that would not be considered to increase emissions using
10 the calculation method in subpart 3 may nonetheless be
11 considered a title I modification, particularly under the
12 calculation method required by part C (prevention of significant
13 deterioration of air quality) and part D (plan requirements in
14 nonattainment areas) of the act.

15 Subp. 3. Calculation method for modifications that are not
16 title I modifications. Emissions changes for a modification
17 must be calculated by comparing the hourly emission rate of the
18 stationary source, at maximum physical capacity, before and
19 after the proposed physical or operational change. The emission
20 rate shall be expressed as pounds per hour of any regulated air
21 pollutant. Items A to C shall be used to determine emission
22 changes for modifications that are not title I modifications.

23 A. When calculating emissions before and after the
24 physical and operational change, physical and operational
25 limitations and emission decreases will be considered only if
26 they:

27 (1) are or will be automatically required by an
28 applicable requirement including parts 7011.0060 to 7011.0080,
29 except that control efficiencies for control equipment with
30 hoods under part 7011.0070 cannot be used to calculate emissions
31 under this part;

32 (2) are or will be automatically required by an
33 existing permit;

34 (3) are integral to the process;

35 (4) are proposed as a permit term and condition
36 in the application for a minor, moderate, or major modification

1 under part 7007.1450 or 7007.1500; or

2 (5) are calculated in records kept at the
3 stationary source where reductions rendered the modification
4 insignificant under part 7007.1250.

5 B. In cases where use of emission factors or related
6 calculation methods clearly demonstrates whether or not the
7 change will increase the emission level, the following emission
8 factors or methods shall be used:

9 (1) EPA emission factors as defined in part
10 7005.0100, subpart 10d, or other emission factors determined by
11 the agency to be superior to EPA emission factors; or

12 (2) if no EPA emission factors are specified,
13 factors or related emissions calculation methods published by
14 EPA or provided by the agency upon request of the permittee
15 which relate to the specific source type. The permittee shall
16 identify the source of the emission factor or calculation method
17 in the application.

18 C. Material balances, continuous monitor data, or
19 manual emissions tests may be used in cases where use of
20 emission factors or related calculation methods under item B
21 does not clearly demonstrate, to the agency's satisfaction,
22 whether or not the change will increase the emission level, or
23 where a permittee demonstrates to the agency's satisfaction that
24 there are reasonable grounds to dispute the result obtained
25 under item B. These methods may be used only to establish
26 premodification emission rates from which postmodification
27 emission rates may be calculated. Tests shall be conducted
28 under such conditions as the agency shall specify. At least
29 three valid test runs must be conducted. All operating
30 parameters which may affect emissions must be held constant to
31 the maximum feasible degree for all test runs.

32 7007.1250 INSIGNIFICANT MODIFICATIONS.

33 Subpart 1. When an insignificant modification can be
34 made. The permittee may make a modification described in either
35 item A or B at a permitted stationary source without getting a

1 permit amendment, unless the modification is prohibited by
2 subpart 2.

3 A. Construction or operation of any emissions unit,
4 or undertaking any activity, on the insignificant activities
5 list in part 7007.1300, subparts 2 and 3.

6 B. Any modification that will:

7 (1) result in an increase of an air pollutant
8 which is not listed in table 1; or

9 (2) result in an increase of an air pollutant
10 which is listed below, but in an amount less than the
11 corresponding threshold:

12 13	Pollutant	Threshold
14	NO _x	2.28 pounds per hour
15	SO ²	2.28 pounds per hour
16	VOCs	2.28 pounds per hour
17	PM-10	.855 pounds per hour
18	CO	5.70 pounds per hour
19	Lead	0.25 pounds per hour
20	HAPs	25% of the hazardous
21		air pollutant thresholds
22		listed in Code of
23		Federal Regulations,
24		title 40, section 63.44,
25		as proposed in Federal
26		Register, volume 59,
27		pages 15504-15571
28		(April 17, 1994)
29		<u>part 7007.1251</u>

30 For purposes of this subpart, whether or not the modification
31 will cause an increase in emissions shall be calculated as
32 described in part 7007.1200. An owner or operator may not use
33 control equipment efficiencies for listed control equipment
34 determined by part 7011.0070 to qualify for an insignificant
35 modification, unless the specifications for the control
36 equipment are from a control equipment manufacturer, as defined

1 in part 7011.0060, subpart 4. Modifications which would
 2 otherwise be insignificant under this part may be title I
 3 modifications, for which a major amendment is required, using
 4 the methods of calculation required under title I of the act.
 5 Permittees are reminded to review the definition of title I
 6 modifications and the requirements of title I of the act.

7 [For text of subps 2 to 6, see M.R.]

8 7007.1251 HAZARDOUS AIR POLLUTANT THRESHOLDS.

9	CAS#	Chemical Name	De Minimis Level (tons/year)
10			
11			
12	57147	1,1-Dimethyl hydrazine	0.008
13	79005	1,1,2-Trichloroethan	1
14	79345	1,1,2,2-Tetrachloroethane	0.3
15	96128	1,2-Dibromo-3-chloropropane	0.01
16	122667	1,2-Diphenylhydrazine	0.09
17	106887	1,2-Epoxybutane	1
18	75558	1,2-Propylenimine (2-Methyl aziridine)	0.003
19	120821	1,2,4-Trichlorobenzene	10
20	106990	1,3-Butadiene	0.07
21	542756	1,3-Dichloropropene	1
22	1120714	1,3-Propane sultone	0.03
23	106467	1,4-Dichlorobenzene(p)	3
24	123911	1,4-Dioxane (1,4-Diethyleneoxide)	6
25	53963	2-Acetylamino-fluorine	0.005
26	532274	2-Chloroacetophenone	0.06
27	79469	2-Nitropropane	1
28	540841	2,2,4-Trimethylpentane	5
29	1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	6E-07
30	584849	2,4-Toluene diisocyanate	0.1
31	51285	2,4-Dinitrophenol	1
32	121142	2,4-Dinitrotoluene	0.02
33	94757	2,4-D, salts, esters (2,4-Dichlorophenoxy acetic acid)	10
34			
35	95807	2,4-Toluene diamine	0.02
36	95954	2,4,5-Trichlorophenol	1
37	88062	2,4,6-Trichlorophenol	6
38	91941	3,3-Dichlorobenzidine	0.2
39	119904	3,3'-Dimethoxybenzidine	0.1
40	119937	3,3'-Dimethyl benzidine	0.008
41	92671	4-Aminobiphenyl	1
42	92933	4-Nitrobiphenyl	1
43	100027	4-Nitrophenol	5
44	101144	4,4-Methylene bis(2-chloroaniline)	0.2
45	101779	4,4'-Methylenedianiline	1
46	534521	4,6-Dinitro-o-cresol, and salts	0.1
47	75070	Acetaldehyde	9
48	60355	Acetamide	1
49	75058	Acetonitrile	4
50	98862	Acetophenone	1
51	107028	Acrolein	0.04
52	79061	Acrylamide	0.02
53	79107	Acrylic acid	0.6
54	107131	Acrylonitrile	0.3
55	107051	Allyl chloride	1
56	62533	Aniline	1
57	71432	Benzene	2
58	92875	Benzidine	0.0003
59	98077	Benzotrichloride	0.006
60	100447	Benzyl chloride	0.1
61	57578	beta-Propiolactone	0.1
62	92524	Biphenyl	10

1	<u>117817</u>	<u>Bis(2-ethylhexyl)phthalate(DEHP)</u>	5
2	<u>542881</u>	<u>Bis(chloromethyl)ether</u>	0.0003
3	<u>75252</u>	<u>Bromoform</u>	10
4	<u>156627</u>	<u>Calcium cyanamide</u>	10
5	<u>105602</u>	<u>Caprolactam</u>	10
6	<u>133062</u>	<u>Captan</u>	10
7	<u>63252</u>	<u>Carbaryl</u>	10
8	<u>75150</u>	<u>Carbon disulfide</u>	1
9	<u>56235</u>	<u>Carbon tetrachloride</u>	1
10	<u>463581</u>	<u>Carbonyl sulfide</u>	5
11	<u>120809</u>	<u>Catechol</u>	5
12	<u>133904</u>	<u>Chloramben</u>	1
13	<u>57749</u>	<u>Chlordane</u>	0.01
14	<u>7782505</u>	<u>Chlorine</u>	0.1
15	<u>79118</u>	<u>Chloroacetic acid</u>	0.1
16	<u>108907</u>	<u>Chlorobenzene</u>	10
17	<u>510156</u>	<u>Chlorobenzilate</u>	0.4
18	<u>67663</u>	<u>Chloroform</u>	0.9
19	<u>107302</u>	<u>Chloromethyl methyl ether</u>	0.1
20	<u>126998</u>	<u>Chloroprene</u>	1
21	<u>1319773</u>	<u>Cresols/Cresylic acid (isomers</u>	
22		<u>and mixture)</u>	1
23	<u>95487</u>	<u>o-Cresol</u>	1
24	<u>108394</u>	<u>m-Cresol</u>	1
25	<u>106445</u>	<u>p-Cresol</u>	1
26	<u>98828</u>	<u>Cumene</u>	10
27	<u>334883</u>	<u>Diazomethane</u>	1
28	<u>132649</u>	<u>Dibenzofuran</u>	5
29	<u>72559</u>	<u>DDE (p,p'-Dichlorodiphenyldichloroethylene)</u>	0.01
30	<u>84742</u>	<u>Dibutylphthalate</u>	10
31	<u>111444</u>	<u>Dichloroethyl ether (Bis(2-chloroethyl)</u>	
32		<u>ether)</u>	0.06
33	<u>62737</u>	<u>Dichlorvos</u>	0.2
34	<u>11422</u>	<u>Diethanolamine</u>	5
35	<u>64675</u>	<u>Diethyl sulfate</u>	1
36	<u>60117</u>	<u>Dimethyl aminoazobenzene</u>	1
37	<u>79447</u>	<u>Dimethyl carbamoyl chloride</u>	0.02
38	<u>68122</u>	<u>Dimethyl formamide</u>	1
39	<u>131113</u>	<u>Dimethyl phthalate</u>	10
40	<u>77781</u>	<u>Dimethyl sulfate</u>	0.1
41	<u>106898</u>	<u>Epichlorohydrin</u>	2
42	<u>140885</u>	<u>Ethyl acrylate</u>	1
43	<u>100414</u>	<u>Ethyl benzene</u>	10
44	<u>51796</u>	<u>Ethyl carbamate (Urethane)</u>	0.8
45	<u>75003</u>	<u>Ethyl chloride</u>	10
46	<u>106934</u>	<u>Ethylene dibromide (Dibromoethane)</u>	0.1
47	<u>107062</u>	<u>Ethylene dichloride (1,2-Dichloroethane)</u>	0.8
48	<u>107211</u>	<u>Ethylene glycol</u>	10
49	<u>151564</u>	<u>Ethylene imine (Aziridine)</u>	0.003
50	<u>75218</u>	<u>Ethylene oxide</u>	0.1
51	<u>96457</u>	<u>Ethylene thiourea</u>	0.6
52	<u>75343</u>	<u>Ethylidene dichloride (1,1-Dichloroethane)</u>	1
53	<u>50000</u>	<u>Formaldehyde</u>	2
54	<u>76448</u>	<u>Heptachlor</u>	0.02
55	<u>118741</u>	<u>Hexachlorobenzene</u>	0.01
56	<u>87683</u>	<u>Hexachlorobutadiene</u>	0.9
57	<u>77474</u>	<u>Hexachlorocyclopentadiene</u>	0.1
58	<u>67721</u>	<u>Hexachloroethane</u>	5
59	<u>822060</u>	<u>Hexamethylene,-1,6-diisocyanate</u>	0.02
60	<u>680319</u>	<u>Hexamethylphosphoramide</u>	0.01
61	<u>110543</u>	<u>Hexane</u>	10
62	<u>302012</u>	<u>Hydrazine</u>	0.004
63	<u>7647010</u>	<u>Hydrochloric acid</u>	10
64	<u>7664393</u>	<u>Hydrogen fluoride</u>	0.1
65	<u>123319</u>	<u>Hydroquinone</u>	1
66	<u>78591</u>	<u>Isophorone</u>	10
67	<u>58899</u>	<u>Lindane (hexachlorcyclohexane, gamma)</u>	0.01
68	<u>108316</u>	<u>Maleic anhydride</u>	1
69	<u>67561</u>	<u>Methanol</u>	10
70	<u>72435</u>	<u>Methoxychlor</u>	10
71	<u>74839</u>	<u>Methyl bromide (Bromomethane)</u>	10

1	74873	<u>Methyl chloride (Chloromethane)</u>	10
2	71556	<u>Methyl chloroform (1,1,1-Trichloroethane)</u>	10
3	78933	<u>Methyl ethyl ketone (2-Butanone)</u>	10
4	60344	<u>Methyl hydrazine</u>	0.06
5	74884	<u>Methyl iodide (Iodomethane)</u>	1
6	108101	<u>Methyl isobutyl ketone</u>	10
7	624839	<u>Methyl isocyanate</u>	0.1
8	80626	<u>Methyl methacrylate</u>	10
9	1634044	<u>Methyl tert-butyl ether</u>	10
10	12108133	<u>Methylcyclopentadienyl manganese</u>	0.1
11	75092	<u>Methylene chloride (Dichloromethane)</u>	10
12	101688	<u>Methylene diphenyl diisocyanate</u>	0.1
13	91203	<u>Naphthalene</u>	10
14	98953	<u>Nitrobenzene</u>	1
15	62759	<u>N-Nitrosodimethylamine</u>	0.001
16	69892	<u>N-Nitrosomorpholine</u>	1
17	684935	<u>N-Nitroso-N-methylurea</u>	0.0002
18	121697	<u>N,N-Dimethylaniline</u>	1
19	90040	<u>o-Anisidine</u>	1
20	95534	<u>o-Toluidine</u>	4
21	56382	<u>Parathion</u>	0.1
22	82688	<u>Pentachloronitrobenzene (Quintobenzene)</u>	0.3
23	87865	<u>Pentachlorophenol</u>	0.7
24	108952	<u>Phenol</u>	0.1
25	75445	<u>Phosgene</u>	0.1
26	7803512	<u>Phosphine</u>	5
27	7723140	<u>Phosphorous</u>	0.1
28	85449	<u>Phthalic anhydride</u>	5
29	1336363	<u>Polychlorinated biphenyls (Aroclors)</u>	0.009
30	106503	<u>p-Phenylenediamine</u>	10
31	123386	<u>Propionaldehyde</u>	5
32	114261	<u>Propoxur (Baygone)</u>	10
33	78875	<u>Propylene dichloride (1,2-Dichloropropane)</u>	1
34	75569	<u>Propylene oxide</u>	5
35	91225	<u>Quinoline</u>	0.006
36	106514	<u>Quinone</u>	5
37	100425	<u>Styrene</u>	1
38	96093	<u>Styrene oxide</u>	1
39	127184	<u>Tetrachloroethylene (Perchloroethylene)</u>	10
40	7550450	<u>Titanium tetrachloride</u>	0.1
41	108883	<u>Toluene</u>	10
42	8001352	<u>Toxaphene (chlorinated camphene)</u>	0.01
43	79016	<u>Trichloroethylene</u>	10
44	121448	<u>Triethylamine</u>	10
45	1582098	<u>Trifluralin</u>	9
46	108054	<u>Vinyl acetate</u>	1
47	593602	<u>Vinyl bromide (bromoethene)</u>	0.6
48	75014	<u>Vinyl chloride</u>	0.2
49	75354	<u>Vinylidene chloride (1,1-Dichloroethylene)</u>	0.4
50	1330207	<u>Xylenes (isomers and mixture)</u>	10
51	108383	<u>m-Xylenes</u>	10
52	95476	<u>o-Xylenes</u>	10
53	106423	<u>p-Xylenes</u>	10
54	-	<u>Arsenic and inorganic arsenic compounds</u>	0.005
55	7784421	<u>Arsine</u>	0.1
56	-	<u>Antimony compounds (except those</u>	
57	-	<u>specifically listed)*</u>	5
58	1309644	<u>Antimony trioxide</u>	1
59	1345046	<u>Antimony trisulfide</u>	0.1
60	7783702	<u>Antimony pentafluoride</u>	0.1
61	28300745	<u>Antimony potassium tartrate</u>	1
62	-	<u>Beryllium compounds (except Beryllium</u>	
63	-	<u>salts)</u>	0.008
64	-	<u>Beryllium salts</u>	0.00002
65	-	<u>Cadmium compounds</u>	0.01
66	130618	<u>Cadmium oxide</u>	0.01
67	-	<u>Chromium compounds (except Hexavalent and</u>	
68	-	<u>Trivalent)</u>	5
69	-	<u>Hexavalent Chromium compounds</u>	0.002
70	-	<u>Trivalent Chromium compounds</u>	5
71	10025737	<u>Chromic chloride</u>	0.1

1	744084	Cobalt metal (and compounds, except those	
2		specifically listed)*	0.1
3	10210681	Cobalt carbonyl	0.1
4	62207765	Fluomine	0.1
5	-	Coke oven emissions	0.03
6	-	Cyanide compounds (except those	
7		specifically listed)*	5
8	143339	Sodium cyanide	0.1
9	151508	Potassium cyanide	0.1
10	-	Glycol ethers (except those	
11		specifically listed)*	5
12	110805	2-Ethoxy ethanol	10
13	111762	Ethylene glycol monobutyl ether	10
14	108864	2-Methoxy ethanol	10
15	-	Lead and compounds (except those	
16		specifically listed)*	0.01
17	75741	Tetramethyl lead	0.01
18	78002	Tetraethyl lead	0.01
19	7439965	Manganese and compounds (except those	
20		specifically listed)*	0.8
21	12108133	Methylcyclopentadienyl manganese	0.1
22	-	Mercury compounds (except those	
23		specifically listed)*	0.01
24	10045940	Mercuric nitrate	0.01
25	748794	Mercuric chloride	0.01
26	62384	Phenyl mercuric acetate	0.01
27	-	Elemental Mercury	0.01
28	-	Mineral fiber compounds (except those	
29		specifically listed)*	a
30	1332214	Asbestos	a
31	-	Erionite	a
32	-	Silica (crystalline)	a
33	-	Talc (containing asbestos from fibers)	a
34	-	Glass wool	a
35	-	Rock wool	a
36	-	Slag wool	a
37	-	Ceramic fibers	a
38	-	Nickel compounds (except those	
39		specifically listed)*	1
40	13463393	Nickel Carbonyl	0.1
41	12035722	Nickel refinery dust	0.08
42	-	Nickel subsulfide	0.04
43	-	Polycyclic organic matter-POM (except those	
44		specifically listed)*	0.01
45	56553	Benz(a)anthracene	0.01
46	50328	Benzo(a)pyrene	0.01
47	205992	Benzo(b)fluoranthene	0.01
48	57976	7,12-Dimethylbenz(a)anthracene	0.01
49	225514	Benz(c)acridine	0.01
50	218019	Chrysene	0.01
51	53703	Dibenz(ah)anthracene	0.01
52	189559	1,2:7,8-Dibenzopyrene	0.01
53	193395	Indeno(1,2,3-cd)pyrene	0.01
54	-	Dioxins & Furans (TCDD equivalent)**	-
55	7782492	Selenium and compounds (except those	
56		specifically listed)*	0.1
57	7488564	Selenium sulfide (mono and di)	0.1
58	7783075	Hydrogen selenide	0.1
59	10102188	Sodium selenite	0.1
60	13410010	Sodium selenate	0.1
61	99999918	Radionuclides (including radon)	b
62			

63 * - For this chemical group, specific compounds or subgroups are
64 named specifically in this table. For the remainder of the
65 chemicals of the chemical group, a single de minimis value is
66 listed, which applies to compounds which are not named
67 specifically.

1 ** - The "toxic equivalent factor" method in EPA/625/3-89-016
2 (U.S. EPA (1989) Interim procedures for estimating risk
3 associated with exposure to mixtures) should be used for
4 PCDD/PCDF mixtures. A different de minimis level will be
5 determined for each mixture depending on the equivalency factors
6 used which are compound specific. For purposes of this part,
7 the document EPA/625/3-89-016, Interim Procedures for Estimating
8 Risk Associated with Exposure to Mixtures, U.S. EPA (1989), is
9 incorporated by reference. The Environmental Protection Agency
10 is the author and publisher. This document is available at the
11 University of Minnesota through the Minitex interlibrary loan
12 system. This document is subject to frequent change.

13 a - De minimis values are zero pending public comment on the
14 rule. Currently available data do not support assignment of a
15 "trivial" emission rate; therefore, the value assigned will be
16 policy based.

17 b - The EPA relies on Code of Federal Regulations, title 40,
18 part 61, subparts B and I, and Appendix E, and assigns a de
19 minimis level based on an effective dose equivalent of 0.3
20 milliem per year for a seven-year exposure period that would
21 result in a cancer risk of one per million. The individual
22 radionuclides subject to de minimis levels used for section
23 112(g) of the act are also contained in Code of Federal
24 Regulations, title 40, part 61.

25 7007.1300 INSIGNIFICANT ACTIVITIES LIST.

26 [For text of subpart 1, see M.R.]

27 Subp. 2. Insignificant activities not required to be
28 listed. The activities described in this subpart are not
29 required to be listed in a permit application under part
30 7007.0500, subpart 2, item C, subitem (2).

31 A. Fuel use at a stationary source:

32 (1) production of hot water for on-site personal
33 use not related to any industrial process; and

34 (2) fuel use related to food preparation by a
35 restaurant or cafeteria; and

1 (3) fuel burning equipment with a capacity less
2 than 30,000 Btu per hour, except where the total capacity of the
3 fuel burning equipment exceeds 500,000 Btu per hour.

4 B. Plant upkeep:

5 (1) routine housekeeping or plant upkeep
6 activities such as painting buildings, retarring roofs, or
7 paving parking lots, but excluding spray paint booths equipment
8 used for plant upkeep activities;

9 (2) routine maintenance of buildings, grounds,
10 and equipment;

11 (3) use of vacuum cleaning systems and equipment
12 for portable steam cleaning;

13 (4) clerical activities such as operating copy
14 machines and document printers, except operation of such units
15 on a commercial basis;

16 (5) janitorial activities; and

17 (6) sampling connections used exclusively to
18 withdraw materials for laboratory analysis and testing.

19 [For text of item C, see M.R.]

20 D. Finishing operations:

21 (1) closed tumblers used for cleaning or
22 deburring metal products without abrasive blasting;

23 (2) equipment for washing or drying fabricated
24 glass or metal products, if no VOCs are used in the process, and
25 no gas, oil, or solid fuel is burned;

26 (3) equipment ~~operated~~ vented inside a building
27 used for buffing, polishing, carving, cutting, drilling,
28 machining, routing, sanding, sawing, surface grinding, or
29 turning of ceramic, precision parts, leather, metals, plastics,
30 masonry, carbon, wood, or glass, provided the equipment:

31 (a) is vented inside of the building 100
32 percent of the time; and

33 (b) does not use air filtering systems used
34 to control indoor air emissions; and

35 (4) blast cleaning operations using suspension of
36 abrasive in water.

1 E. Storage tanks:

2 (1) pressurized storage tanks for anhydrous
3 ammonia, liquid petroleum gas (LPG), liquid natural gas (LNG),
4 or natural gas;

5 (2) storage tanks holding lubricating oils;

6 (3) ~~underground-storage-of~~ above and below ground
7 fuel in oil storage tanks with a combined total tankage capacity
8 less than 100,000 gallons; and

9 (4) gasoline storage tanks with a combined total
10 tankage capacity of less than 2,000 gallons.

11 F. Wastewater treatment: stacks or vents to prevent
12 escape of sewer gases through plumbing traps, not including
13 these stacks and vents associated with processing at wastewater
14 treatment plants.

15 [For text of item G, see M.R.]

16 H. Residential activities: typical emissions from
17 residential structures, not including:

18 (1) fuel burning equipment with a total capacity
19 of 500,000 Btu/hour or greater;

20 (2) emergency backup generators; and

21 (3) incinerators.

22 [For text of items I and J, see M.R.]

23 K. Miscellaneous:

24 (1) safety devices, such as fire extinguishers,
25 if associated with a permitted emission source, but not
26 including sources of continuous emissions;

27 (2) flares to indicate danger to the public;

28 (3) operation of mobile sources, except for
29 fugitive emissions from mobile sources at a stationary source
30 required to be included under title I, and except for stationary
31 sources where the agency determines the fugitive emissions from
32 associated mobile source activity may impact attainment of
33 national ambient air quality standards;

34 (4) purging of natural gas lines;

35 (5) natural draft hoods, natural draft
36 ventilation, comfort air conditioning, or comfort ventilating

1 systems not designed or used to remove air contaminants
2 generated by, or released from specific units of equipment; and
3 (6) funeral home embalming processes and
4 associated ventilation systems.

5 L. Demonstration projects conducted by a teaching and
6 ~~research~~ institution, where the sole purpose of a demonstration
7 project is to provide an actual functional example of a process
8 unit operation to the students or other interested parties,
9 where actual operating hours of each emission unit shall not
10 exceed a total of ~~50~~ 350 hours in a calendar year and where the
11 emissions unit is not used to dispose of waste materials.

12 Subp. 3. **Insignificant activities required to be listed.**

13 The activities described in this subpart must be listed in a
14 permit application, and calculation of emissions from these
15 activities shall be provided if required by the agency, under
16 part 7007.0500, subpart 2, item C, subitem (2). If emissions
17 units listed in this subpart are subject to additional
18 requirements under section 114(a)(3) of the act (Enhanced
19 Monitoring) or section 112 of the act (Hazardous Air
20 Pollutants), or if part of a title I modification, or if
21 accounted for, make a stationary source subject to a part 70
22 permit, emissions from the emissions units must be calculated in
23 the permit application.

24 A. Fuel use: space heaters fueled by kerosene,
25 natural gas, or propane.

26 [For text of items B and C, see M.R.]

27 D. Finishing operations:

28 (1) open tumblers with a batch capacity of 1,000
29 pounds or less; and

30 (2) equipment vented inside a building used for
31 buffing, polishing, carving, cutting, drilling, machining,
32 routing, sanding, sawing, surface grinding, or turning of
33 ceramic, precision parts, leather, metals, plastics, masonry,
34 carbon, wood, or glass, provided that emissions from the
35 equipment are:

36 (a) filtered through an air cleaning system;

1 and

2 (b) vented inside of the building 100
3 percent of the time.

4 E. Storage tanks:

5 (1) gasoline storage tanks with a combined total
6 tankage capacity of not more than 10,000 gallons; and

7 (2) nonhazardous air pollutant VOC storage tanks
8 with a combined total tankage capacity of not more than 10,000
9 gallons of nonhazardous air pollutant VOCs and with a vapor
10 pressure of not more than 1.0 psia at 60 degrees Fahrenheit.

11 F. Cleaning operations: commercial laundries, not
12 including dry cleaners and industrial launderers.

13 [For text of item G, see M.R.]

14 H. Miscellaneous:

15 (1) ~~use-of-not-more~~ a stationary source that uses
16 less than 200 gallons of VOC containing materials per 12 months
17 for any consecutive 12-month period (gallons of VOC equals
18 volume percentage of VOC multiplied by the gallons of
19 VOC-containing material);

20 (2) equipment used exclusively for packaging
21 lubricants or greases;

22 (3) equipment used for hydraulic or hydrostatic
23 testing;

24 (4) brazing, soldering, or welding equipment;

25 (5) blueprint copiers and photographic processes;

26 (6) equipment used exclusively for melting or
27 application of wax; and

28 (7) nonasbestos equipment used exclusively for
29 bonding lining to brake shoes.

30 I. Individual emission units at a stationary source
31 which each have a potential to emit for each of the following
32 pollutants less than:

33 (1) 4,000 pounds per year of carbon monoxide; or

34 (2) 2,000 pounds per year each of nitrogen oxide,
35 sulfur dioxide, particulate matter, particulate matter less than
36 ten microns, VOCs, and ozone.

1 J. Fugitive emissions from roads and parking lots,
 2 except from a stationary source applying for an Option D
 3 registration permit under part 7007.1130. A stationary source
 4 applying for an Option D registration permit must account for
 5 fugitive emissions from roads and parking lots in determining
 6 eligibility under part 7007.1130.

7 Subp. 4. ~~Part-70-source~~ Insignificant activities required
 8 to be listed in a part 70 application. If a facility is
 9 applying for a part 70 permit, emissions units with potential
 10 emissions less than the following limits but not included in
 11 subpart 2 must be listed in a part 70 permit application:

12 A. 5.7 pounds per hour of carbon monoxide;

13 B. potential emissions of 2.28 pounds per hour or
 14 actual emissions of one ton per year for particulate matter,
 15 particulate matter less than ten microns, nitrogen oxide, sulfur
 16 dioxide, and VOCs; and

17 C. ~~.025-pounds-per-hour-of-lead, and~~

18 D. 25 percent of the hazardous air pollutant
 19 thresholds listed in ~~Code of Federal Regulations, title 40,~~
 20 ~~section 63.44, as proposed in Federal Register, volume 59, pages~~
 21 ~~15504-15571 (April 17, 1994)~~ part 7007.1251.

22 Calculation of emissions from the emissions units listed in
 23 this subpart shall be provided if required by the agency under
 24 part 7007.0500, subpart 2, item C, subitem (2). If emissions
 25 units listed under this subpart are subject to additional
 26 requirements under section 114(a)(3) of the act (Enhanced
 27 Monitoring) or section 112 of the act (Hazardous Air
 28 Pollutants), or are part of a title I modification, or if
 29 accounted for, make a stationary source subject to a part 70
 30 permit emissions from the emissions units must be calculated in
 31 the permit application. If the applicant is applying for a
 32 state permit or an amendment to a state permit, this subpart
 33 does not apply.

34 7007.1450 MINOR AND MODERATE PERMIT AMENDMENTS.

35 [For text of subpart 1, see M.R.]

1 Subp. 2. **Minor amendment applicability.** Except as
 2 provided in subpart 1, the agency may amend a permit to allow a
 3 modification under the minor permit amendment process of this
 4 part, if the modification will not cause an increase in
 5 emissions of an air pollutant listed below in an amount greater
 6 than the threshold:

Pollutant	Threshold
NO _x	9.13 pounds per hour
SO ²	9.13 pounds per hour
VOCs	9.13 pounds per hour
PM-10	3.42 pounds per hour
CO	22.80 pounds per hour
Lead	9.13 pounds per hour
HAPs	Hazardous air pollutant thresholds listed in Code of Federal Regulations, title 40, section 63.44, as proposed in Federal Register, volume 59, pages 15504-15571, (April 17, 1994) <u>part 7007.1251</u>

24 For purposes of the previous sentence, whether or not the
 25 modification will cause an increase in emissions shall be
 26 calculated as described in part 7007.1200. Modifications which
 27 would otherwise qualify for a minor or moderate amendment under
 28 this part may be title I modifications, for which a major
 29 amendment is required, using the methods of calculation required
 30 under title I of the act. Permittees are reminded to review the
 31 definition of title I modifications and requirements of title I
 32 of the act.

33 [For text of subps 3 to 9, see M.R.]

34 7011.0060 DEFINITIONS.

35 Subpart 1. **Scope.** The definitions in parts 7005.0100 and

1 7007.0100 apply to the terms used in parts 7011.0060 to
2 7011.0080 unless the terms are defined in this part. The
3 definitions in this part apply to the terms used in parts
4 7011.0060 to 7011.0080.

5 Subp. 2. Hood. "Hood" means a shaped inlet to a pollution
6 control system that does not totally surround emissions from an
7 emissions unit, that is designed to capture and discharge the
8 air emissions through ductwork to control equipment, and that
9 conforms to the design and operating practices recommended in
10 "Industrial Ventilation - A Manual of Recommended Practice,
11 American Conference of Governmental Industrial Hygienists,
12 Lansing, Michigan." This document is subject to frequent change.

13 Subp. 3. Control equipment manufacturer. "Control
14 equipment manufacturer" means a person that manufactures and
15 sells control equipment, if at least 50 percent of the dollar
16 value of the annual control equipment sales are made to persons
17 who are not a subsidiary, division, or subdivision of the
18 control equipment manufacturer.

19 Subp. 4. Listed control equipment. "Listed control
20 equipment" means the control equipment at a stationary source
21 listed in part 7011.0070, subpart 1, Table A.

22 Subp. 5. Total enclosure. "Total enclosure" means an
23 enclosure that completely surrounds emissions from an emissions
24 unit such that all emissions are captured and discharged through
25 ductwork to control equipment.

26 7011.0061 INCORPORATION BY REFERENCE.

27 For the purpose of parts 7011.0060 to 7011.0080, the
28 document, Industrial Ventilation - A Manual of Recommended
29 Practice, American Conference of Governmental Industrial
30 Hygienists, 6500 Glenway Avenue, Building D-7, Cincinnati, OH,
31 45211-4438 (1984), is incorporated by reference. American
32 Conference of Governmental Industrial Hygienists is the author
33 and publisher. This document is available through the Minitex
34 interlibrary loan system (University of Minnesota Library).
35 This document is subject to frequent change.

1 7011.0065 APPLICABILITY.

2 Subpart 1. **Applicability.** The owner or operator of a
3 stationary source shall comply with parts 7011.0060 to 7011.0080
4 if the owner or operator used the control equipment efficiencies
5 for listed control equipment established pursuant to part
6 7011.0070 to calculate potential to emit, from emissions units
7 that discharge through the listed control equipment, to:

8 A. determine what type of permit is required,
9 pursuant to part 7007.0150, subpart 4, item B;

10 B. determine what type of amendment to a part 70 or
11 state permit is required, pursuant to part 7007.1200;

12 C. qualify for an insignificant modification under
13 part 7007.1250; or

14 D. qualify for registration permit option D under
15 part 7007.1130.

16 Subp. 2. **Exceptions to applicability.** Notwithstanding
17 subpart 1, the owner or operator of a stationary source need not
18 comply with parts 7011.0060 to 7011.0080, if:

19 A. nonuse of the listed control equipment is
20 specifically allowed in a part 70, state, or general permit
21 issued under chapter 7007; or

22 B. the listed control equipment is at a stationary
23 source that would not require a permit under chapter 7007, even
24 if the emission reductions from the listed control equipment at
25 the stationary source are not considered in the stationary
26 source's potential emissions.

27 7011.0070 LISTED CONTROL EQUIPMENT AND CONTROL EQUIPMENT
28 EFFICIENCIES.

29 Subpart 1. **Listed control equipment efficiencies.** Unless
30 a part 70, state, or general permit specifies a different
31 control efficiency, the owner or operator of a stationary source
32 must at all times attain at least the control efficiency listed
33 in Table A for each piece of listed control equipment at the
34 stationary source. The applicable control efficiency for a type
35 of listed control equipment and a given pollutant is determined

1 by whether air emissions are discharged to the control equipment
 2 through a hood or through a total enclosure. The control
 3 equipment efficiencies in Table A do not apply to any hazardous
 4 air pollutant. The owner or operator of a stationary source
 5 that is subject to the control efficiencies given for hoods in
 6 Table A must evaluate, on a form provided by the commissioner,
 7 whether the hood conforms to the design and operating practices
 8 recommended in "Industrial Ventilation - A Manual of Recommended
 9 Practice, American Conference of Governmental Industrial
 10 Hygienists, Lansing, Michigan," and must include with the permit
 11 application the certification required in subpart 3.

12 CONTROL EQUIPMENT EFFICIENCY-TABLE A

13 ID#	14 CONTROL EQUIPMENT DESCRIPTION	15 POLLUTANT	16 CONTROL	
			17 EFFICIENCY	18
			TOTAL	HOOD
			ENCLO-	SURE
			SURE	
20	PM CONTROL CATEGORY-CYCLONES			
21	means a device where airflow			
22	is forced to spin in a vortex			
23	through a tube			
24				
25	007 Centrifugal Collector	PM,PM-10	80%	64%
26	(cyclone)-high efficiency			
27	means: a cyclonic device			
28	with parameters stated in			
29	drawing 1 and table 1			
30				
31	008 Centrifugal Collector	PM,PM-10	50%	40%
32	(cyclone)-medium efficiency			
33	means: a cyclonic device			
34	with parameters stated in			
35	drawing 1 and table 1			
36				
37	009 Centrifugal Collector	PM,PM-10	10%	8%
38	(cyclone)-low efficiency			
39	means: a cyclonic device			
40	with parameters stated in			
41	drawing 1 and table 1			
42				
43	076 Multiple Cyclone without	PM,PM-10	80%	NA
44	Fly Ash Reinjection means:			
45	a cyclonic device with more			
46	than one tube where fly ash			
47	is not reinjected			
48				
49	077 Multiple Cyclone with Fly	PM,PM-10	50%	NA
50	Ash Reinjection means: a			
51	cyclonic device with more			
52	than one tube where fly ash			
53	is reinjected			
54				
55	085 Wet Cyclone Separator or	PM,PM-10	50%	40%
56	Cyclonic Scrubbers means:			
57	a cyclonic device that sprays			
58	water into a cyclone			
59				

1	012	PM CONTROL CATEGORY-			
2		ELECTROSTATIC PRECIPITATORS			
3		means: a control device in			
4		which the incoming particulate			
5		matter receives an electrical			
6		charge and is then collected			
7		on a surface with the opposite			
8		electrical charge			
9					
10		-assumed efficiency for boiler	PM-10	40%	NA
11		fly ash control			
12					
13		-assumed efficiency for other	PM-10	70%	56%
14		applications			
15					
16		PM CONTROL CATEGORY-OTHER CONTROLS			
17					
18	016	Fabric Filter means: a	PM,PM-10	99%	79%
19		control device in which the			
20		incoming gas stream passes			
21		through a porous fabric filter			
22		forming a dust cake			
23					
24	052	Spray Tower means: a control	PM,PM-10	20%	16%
25		device in which the incoming gas			
26		stream passes through a chamber			
27		in which it contacts a liquid			
28		spray			
29					
30	053	Venturi Scrubber means: a	PM,PM-10	90%	72%
31		control device in which the			
32		incoming gas stream passes through			
33		a venturi into which a low			
34		pressure liquid is introduced			
35					
36	055	Impingement Plate Scrubber	PM,PM-10	25%	20%
37		means: a control device in			
38		which the incoming gas stream			
39		passes a liquid spray and is			
40		then directed at high velocity			
41		into a plate			
42					
43	058	Mat or Panel Filter means:	PM,PM-10	92%	NA
44		a control device in which the			
45		incoming gas stream passes			
46		through a panel of coarse fibers.			
47		Panels are removable for cleaning			
48		or replacement and provide little			
49		resistance to air flow			
50					
51	061	Dust-Suppression-by-Water-Spray	PM₇,PM-10	40%	NA
52		means:--the-application-of-water			
53		to-a-surface-or-material-to			
54		maintain-a-minimum-moisture			
55		content-level-of-2%-to-prevent			
56		particles-from-becoming-airborne			
57					
58		VOC CONTROL CATEGORY			
59					
60	019	Afterburners (thermal or	VOC	95%	76%
61		catalytic oxidation) means:			
62		a device used to reduce VOCs			
63		to the products of combustion			
64		through thermal (high temperature)			
65		oxidation or catalytic (use of			
66		a catalyst) oxidation in a			
67		combustion chamber			
68					
69	023	Flaring or Direct Combustor	VOC	98%	78%
70		means: a device in which air,			
71		combustible organic waste gases,			

1 and supplementary fuel (if needed)
 2 react in the flame zone (e.g.,
 3 at the flare tip) to destroy the
 4 VOCs

5
 6 ~~NO_x-CONTROL-CATEGORY-OTHER-CONTROLS~~

7
 8 024 ~~Modified-Furnace-or-Burner-Design~~ NO_x 35% NA
 9 ~~(low-NO_x-burner)-means:--a-burner~~
 10 ~~that-is-designed-or-modified-to~~
 11 ~~produce-fuel-rich-and-lean-zones~~
 12 ~~to-reduce-NO_x-formation-through~~
 13 ~~the-reduction-of-the-flame~~
 14 ~~temperature-and-available-oxygen~~

15 Staged-Combustion-means:

16
 17
 18 025A ~~Over-Fire-Air-means:--a~~ NO_x 30% NA
 19 ~~burner-in-which-10-to-30%-of~~
 20 ~~the-combustion-air-is-supplied~~
 21 ~~through-ports-that-are-above-the~~
 22 ~~grate-or-hearth~~

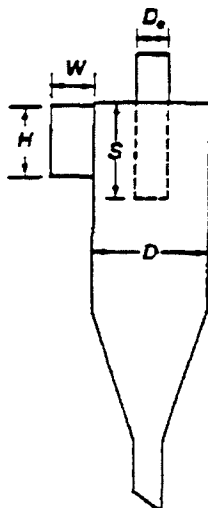
23
 24 025B ~~Reburning-means:--a-burner~~ NO_x 40% NA
 25 ~~in-which-a-secondary-fuel-is~~
 26 ~~injected-above-the-primary~~
 27 ~~combustion-zone~~

28
 29 026 ~~Flue-Gas-Recirculation-means:~~ NO_x 30% NA
 30 ~~a-burner-in-which-a-portion-of~~
 31 ~~the-flue-gases-are-diverted-from~~
 32 ~~the-exhaust-stream-and~~
 33 ~~reintroduced-into-the-primary~~
 34 ~~combustion-zone~~

35
 36 028 ~~Steam-or-Water-Injection~~ NO_x 40% NA
 37 ~~means:--a-burner-in-which-water~~
 38 ~~or-steam-is-injected-into-the~~
 39 ~~primary-combustion-zone~~

40
 41 029 ~~Low-Excess-Air-Firing-means:~~ NO_x 30% NA
 42 ~~a-burner-in-which-the-amount-of~~
 43 ~~excess-air-in-the-combustion~~
 44 ~~chamber-is-reduced~~

45
 46 Drawing 1



47
 48
 49
 50
 51
 52
 53
 54
 55
 56 SOURCE: Lapple, 1951.

57 Table 1
 58 Cyclone Type

59 High Conventional High-Throughput

	Efficiency		(Medium Efficiency)		(Low-Efficiency)	
	(1)	(2)	(3)	(4)	(5)	(6)
Ratio-of dimensions						
Body diameter, D/D	1.0	1.0	1.0	1.0	1.0	1.0
Height-of inlet, H/D	0.5	0.44	0.5	0.5	0.75	0.8
Width-of inlet, W/D	0.2	0.21	0.25	0.25	0.375	0.35
Diameter-of gas-exit, D_e/D	0.5	0.4	0.5	0.5	0.75	0.75
Length-of vortex finder, S/D	0.5	0.5	0.625	0.6	0.875	0.85
Length-of body, L/D	1.5	1.4	2.0	1.75	1.5	1.7
Length-of cone, L/D	2.5	2.5	2.0	2.0	2.5	2.0
Diameter-of dust-outlet, D/D	0.375	0.4	0.25	0.4	0.375	0.4

Sources:---Column-(1)-and-(5),-Stairmand,-1951,-columns-(2),-(4), and-(6),-Swift,-1969,-and-column-(3),-Lapple,-1951.

Ratio Dimensions	High Efficiency	Medium Efficiency	Low Efficiency
Height of inlet, H/D	≤ 0.44	> 0.5 and < 0.8	≥ 0.8
Width of inlet, W/D	≤ 0.2	> 0.2 and < 0.375	≥ 0.375
Diameter of gas exit, D_e/D	≤ 0.4	> 0.4 and < 0.75	≥ 0.75
Length of vortex finder, S/D	≤ 0.5	> 0.5 and < 0.875	≥ 0.875

If one or more of the "ratio dimensions," as listed in table 1, are in a different efficiency category (high, medium, low), then the lowest efficiency category shall be applied.

Subp. 2. Alternative control equipment efficiencies; control efficiencies for hazardous air pollutants. The owner or operator of a stationary source may use an alternative control equipment efficiency for the control equipment listed in subpart 1, if the actual control efficiency has been verified by a performance test approved by the commissioner under parts 7017.2001 to 7017.2060. The owner or operator of a stationary

1 source may use a control equipment efficiency for listed control
2 equipment for a hazardous air pollutant, if the control
3 efficiency has been verified by a performance test approved by
4 the commissioner under parts 7017.2001 to 7017.2060. The
5 request for the alternative control efficiency may be made
6 through a permit application for a part 70, state, registration,
7 or general permit, or in a required notice or application
8 submitted under parts 7007.1150 to 7007.1500. The owner or
9 operator of a stationary source must attain at all times the
10 alternative control efficiency for a piece of listed control
11 equipment at the stationary source established under this
12 subpart.

13 Subp. 3. **Certification for hoods.** The certification
14 required by subpart 1 for hoods shall be signed by an engineer,
15 and shall state as follows:

16 "I certify under penalty of law that I have evaluated
17 the aforementioned hood(s) and that the (each) hood
18 conforms to the design and operating practices
19 recommended in "Industrial Ventilation - A Manual of
20 Recommended Practice, American Conference of
21 Governmental Industrial Hygienists, ~~Bansing,~~
22 Michigan.""

23 7011.0075 CONTROL EQUIPMENT GENERAL REQUIREMENTS.

24 Subpart 1. **Operation of control equipment.** The owner or
25 operator of a stationary source shall operate all listed control
26 equipment located at the stationary source whenever operating
27 the emission units controlled by the listed control equipment in
28 compliance with parts 7011.0060 to 7011.0080. Unless
29 specifically allowed by a part 70, state, or general permit,
30 each piece of listed control equipment shall at all times be
31 operated in the range established by the control equipment
32 manufacturer's specifications for each monitoring parameter
33 listed in part 7011.0080, or within the operating parameters set
34 by the commissioner as the result of the most recent performance
35 test approved-by-the-commissioner conducted to determine control

1 efficiency under parts 7017.2001 to 7017.2060 if those are more
2 restrictive.

3 Subp. 2. **Maintenance of control equipment.** The owner or
4 operator of a stationary source shall maintain each piece of
5 listed control equipment according to the control equipment
6 manufacturer's specifications, shall comply with source-specific
7 maintenance requirements specified in a part 70, state, or
8 general permit, and shall perform the following on each piece of
9 listed control equipment:

10 A. maintain an ~~adequate~~ inventory of spare parts ~~for~~
11 ~~components~~ that are subject to ~~sudden-failure-or~~ frequent
12 ~~replacement due-to-wear,~~ as required by the manufacturing
13 specification or documented in records under items H and I;

14 B. train staff on the operation and monitoring of
15 control equipment and troubleshooting, and train and require
16 staff to respond to indications of malfunctioning equipment,
17 including ~~alarms,-abnormal-temperature-indications,-noises,-and~~
18 ~~eders~~ and other indicators of abnormal operation;

19 C. thoroughly inspect all control equipment at least
20 annually, or as required by the manufacturing
21 specification (this often requires shutting down temporarily);

22 D. ~~inspect,-at-least~~ monthly, or as required by the
23 manufacturing specification, components that are subject to wear
24 or plugging ~~including,~~ for example: bearings, belts, hoses,
25 fans, nozzles, orifices, and ducts;

26 E. ~~inspect,-at-least~~ quarterly, or as required by the
27 manufacturing specification, components that are not subject to
28 wear including structural components, housings, ducts, and
29 hoods;

30 F. ~~check,-at-least~~ daily, or as required by the
31 manufacturing specification, monitoring equipment ~~including, for~~
32 example: pressure gauges, chart recorders, temperature
33 indicators, and recorders;

34 G. ~~calibrate,-at-least~~ annually, or as required by
35 the manufacturing specification, all monitoring equipment; ~~and~~

36 H. maintain a record of activities conducted in items

1 A to G consisting of the activity completed, the date the
2 activity was completed, and any corrective action taken
3 ~~(including any action taken to prevent a recurrence of any~~
4 ~~incident requiring corrective action); and~~

5 I. maintain a record of parts replaced, repaired, or
6 modified for the previous five years.

7 Subp. 3. **Installation of monitoring equipment.** The owner
8 or operator of a stationary source shall install monitoring
9 equipment to measure the operating parameters of all listed
10 control equipment as specified by part 7011.0080 or by source
11 specific monitoring requirements specified in a part 70, state,
12 or general permit. The monitoring equipment must be installed
13 prior to operation of any new process equipment controlled by
14 the control equipment or, for stationary sources in operation on
15 the effective date of this part, by the application deadline
16 listed in part 7007.0350, subpart 1, item A. The owner or
17 operator of a stationary source shall operate the monitoring
18 equipment for each piece of listed control equipment at all
19 times the listed control equipment is required to operate ~~under~~
20 ~~subpart 1~~ in compliance with part 7011.0075.

21 Subp. 4. **Shutdown and breakdown procedures.** In the event
22 of a shutdown of listed control equipment, or a breakdown of
23 listed control equipment, the owner or operator of a stationary
24 source shall comply with part 7019.1000.

25 Subp. 5. **Deviation of listed control equipment from**
26 **operating specifications.** The owner or operator of a stationary
27 source shall report to the commissioner deviations from any
28 monitored operating parameter as required by part 7011.0080.
29 "Deviation" means any recorded reading outside of the
30 specification or range of specifications allowed by subpart 1 or
31 established by a part 70, state, or general permit. This report
32 shall be on a form approved by the commissioner. For any given
33 calendar quarter, and within 30 days after the end of the
34 quarter, the owner or operator shall:

35 A. for pollution control equipment parameters
36 measured on a continuous basis, submit a monitoring report if

1 there are deviations for more than five percent of the emissions
2 ~~units~~ unit's operating time in that quarter; and

3 B. for pollution control equipment parameters
4 measured periodically, submit a monitoring report if there are
5 deviations for more than five percent of the measurements of a
6 subject parameter of the control equipment operating in that
7 quarter.

8 Subp. 6. **Demonstration of control equipment efficiency.**

9 The owner or operator shall, upon request of the commissioner or
10 the administrator, conduct a performance test under parts
11 7017.2001 to 7017.2060 to determine the efficiency of the
12 control equipment. In addition to the reasons specified in part
13 7017.2020, subpart 1, the commissioner or the administrator may
14 make such a request to verify that the control equipment at a
15 stationary source is attaining the efficiency determined in part
16 7011.0070.

17 Subp. 7. **Recalculation of potential to emit.**

18 A. The owner or operator shall recalculate the
19 potential to emit of the stationary source under part 7007.0150,
20 subpart 4, or under part 7007.1200 for amendments to part 70 or
21 state permits, if the owner or operator becomes aware of any
22 information indicating that the calculation originally performed
23 under part 7007.0150, subpart 4, or 7007.1200, would change
24 because the listed control equipment is not as efficient as
25 originally assumed under part 7011.0070 or changes have been
26 made to decrease the listed control equipment's efficiency. The
27 owner or operator shall submit this recalculation to the
28 commissioner within 30 days of becoming aware of the information.

29 B. The owner or operator shall, upon request of the
30 commissioner or the administrator, recalculate the potential to
31 emit of the stationary source under part 7007.0150, subpart 4,
32 or part 7007.1200 for amendments to part 70 and state permits,
33 and submit the recalculation to the commissioner or the
34 administrator by the date specified in the request.

35 7011.0080 MONITORING AND RECORD KEEPING FOR LISTED CONTROL

1 EQUIPMENT.

2 The owner and operator of a stationary source shall comply
 3 with the monitoring and record keeping required for listed
 4 control equipment by the table in this part. The owner or
 5 operator shall maintain the records required by this part for a
 6 minimum of five years from the date the record was made. For
 7 hoods, the owner shall maintain at the stationary source the
 8 engineer's evaluation of each hood required in part 7011.0070,
 9 as well as a monthly record of the fan rotation speed, fan power
 10 draw, or face velocity of each hood, or other comparable air
 11 flow indication method.

12 EPA	Pollution Control	Monitoring	Record Keeping
13 Identifi-	Equipment Type	Parameter(s)	Requirement
14 cation			
15 Number(s)			
17 007, 008,	Centrifugal	Pressure drop	Record pressure
18 009, 076,	collector		drop every 24
19 077	(cyclone)		hours if in
			operation
22 011A, 011B,	Electrostatic	Primary and	Record each
23 012A, 012B	precipitator	secondary	parameter every
		voltage;	24 hours if in
		primary and	operation
		secondary	
		current;	
		sparking rate;	
		and number	
		of fields	
		on-line	
33 016	Fabric filter	Pressure drop	Record pressure
	(bag house)		drop every 24
			hours if in
			operation
38 052	Spray tower	Liquid flow	Record each
		rate and	parameter every
		pressure drop	24 hours if
			in operation
43 053, 055	Venturi scrubber,	Pressure drop	Record each
	impingement plate	and liquid	parameter every
	scrubber	flow rate	24 hours if
			in operation
48 058A, 058B	HEPA and other	Condition of	Record of
	wall filters	the filters,	filter(s)
		including, but	condition every
		not limited	24 hours if
		to, alignment,	in operation
		saturation,	
		and tears	
		and holes	
57 061	Dust-suppression	Test-moisture	Record-moisture
	by-water-spray	content-daily	content-daily
59			
60 085	Wet cyclone	Pressure drop;	Record each

1		separator	and water	parameter every
2			pressure	24 hours if
3				in operation
4				
5	019	Thermal	Combustion	Continuous hard
6		incinerator	temperature or	copy readout of
7			inlet and	temperatures or
8			outlet	manual readings
9			temperatures	every 15 minutes
10				
11	019	Catalytic	Inlet and	Continuous hard
12		incinerator	outlet	copy readout
13			temperatures;	of temperatures
14			and catalyst	or manual
15			bed reactivity	readings every
16			as per	15 minutes; and
17			manufacturer's	results of
18			specifications	catalyst bed
19				reactivity
20				
21	023	Flaring	Temperature	Continuous hard
22			indicating	copy readout
23			presence of	of temperatures
24			a flame	or manual
25				readings
26				every 15
27				minutes
28				
29	024	Modified-furnace	Continuous	Hard-copy
30		or-burner	monitoring	records-of
31		design-(low	of-the	continuous
32		NO _x -burner)	air-to-fuel	monitoring
33			ratio-at-each	
34			fuel-and/or	
35			air-port	
36				
37	025A	Staged	Continuous	Hard-copy
38		combustion--	monitoring	records-of
39		over-fire	of-the	continuous
40		air	air-to-fuel	monitoring
41			ratio-at-each	
42			fuel-and/or	
43			air-port	
44				
45	025B	Staged	Continuous	Hard-copy
46		combustion--	monitoring	records-of
47		reburning	of-the	continuous
48			air-to-fuel	monitoring
49			ratio-at-each	
50			fuel-and/or	
51			air-port	
52				
53	026	Flue-gas	Continuous	Hard-copy
54		recirculation	monitoring	records-of
55			of-the-amount	continuous
56			of-flue-gas	monitoring
57			recirculated	
58			to-the-burner	
59			windbox	
60				
61	020	Steam-or	Continuous	Hard-copy
62		water	monitoring	records-of
63		injection	of-the-fuel	continuous
64			consumption	monitoring
65			and-the-ratio	
66			of-water-to	
67			fuel-being	
68			fired	
69				
70	029	Low-excess	Continuous	Hard-copy
71		air-firing	monitoring	records-of

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1
2
3
4
5

of-the-percent continuous
of-excess-air monitoring
introduced
into-the
boiler