

1.1 **Pollution Control Agency**1.2 **Adopted Permanent Rules Relating to Air Quality**1.3 **7002.0019 AIR QUALITY PERMIT APPLICATION FEES AND ADDITIONAL**  
1.4 **FEES.**

1.5 [For text of subp 1, see M.R.]

1.6 Subp. 2. **Additional points.** The points assessed for activities designated in this  
 1.7 subpart shall be multiplied by the dollar per point value as determined in part 7002.0018  
 1.8 to calculate the additional fee.

1.9	<b>Activity</b>	<b>Points</b>
1.10	A. Modeling review	15
1.11	The points for modeling review shall not be assessed for screening	
1.12	modeling or CAPS modeling.	
1.13	B. Best available control technology (BACT) review	15
1.14	BACT points shall be applied for each prevention of significant	
1.15	deterioration (PSD) pollutant analyzed.	
1.16	C. Lowest achievable emission rate (LAER) review	15
1.17	LAER points shall be applied for each nonattainment new source review	
1.18	(NSR) pollutant analyzed.	
1.19	D. Clean Air Act, section 110(a)(2)(D)(i)(I) review	10
1.20	Points shall be applied for a review of any standard or other requirement	
1.21	related to interstate transport of pollutants established under section	
1.22	110(a)(2)(D)(i)(I).	
1.23	E. Part 75 continuous emission monitoring analysis	10
1.24	F. New source performance standard (NSPS) review	10
1.25	Points shall be applied for each applicable standard but do not apply to	
1.26	registration, capped, or general permit applications.	
1.27	G. National emission standards for hazardous air pollutants (NESHAP) review	10
1.28	Points shall be applied for each applicable standard but do not apply to	
1.29	registration, capped, or general permit applications.	

2.1	H.	Case-by-case maximum achievable control technology (MACT) review	20
2.2		Points shall be applied for each applicable source category reviewed.	
2.3	I.	Netting	10
2.4		Points shall be applied for each prevention of significant deterioration	
2.5		(PSD) pollutant for which a netting analysis is performed.	
2.6	J.	Limit to remain below programmatic regulatory threshold	10
2.7		Points shall be applied, if applicable, to each of the following regulatory	
2.8		programs: Part 70, NESHAP, EAW, AERA, NSPS, PSD, and nonattainment	
2.9		NSR.	
2.10	K.	Plantwide applicability limit (PAL)	20
2.11		Points shall be applied for each prevention of significant deterioration	
2.12		(PSD) pollutant for which a plantwide applicability limit is established.	
2.13	L.	Air emission risk analysis (AERA) review	15
2.14	M.	Variance request under part 7000.7000	35
2.15	N.	Confidentiality request under part 7000.1300	2
2.16	O.	Environmental assessment worksheet (EAW) review	
2.17		Points shall be assigned as follows:	
2.18		Part 4410.4300, subparts 18, item A; and 29	15
2.19		Part 4410.4300, subparts 8, items A and B; 10, items A to C; 16, items	35
2.20		A and D; 17, items A to C and E to G; and 18, items B and C	
2.21		Part 4410.4300, subparts 4; 5, items A and B; 13; 15; 16, items B and	70
2.22		C; and 17, item D	
2.23		A fee for EAW review shall be charged only if the project falls into	
2.24		a mandatory category specified in part 4410.4300, the agency is the	
2.25		designated responsible governmental unit (RGU), and an air or water permit	
2.26		is required for the project. If a facility requires both an air and water permit,	
2.27		the points for an EAW review shall be charged only once and multiplied by	
2.28		the lower of the dollar per point value for an air or water permit.	

2.29 **7005.0100 DEFINITIONS.**

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

3.1 Subp. 4f. **Condensable particulate matter.** "~~Condensable particulate matter~~"  
3.2 means material that is in vapor phase at stack conditions and upon discharge immediately  
3.3 condenses in the ambient air to form solid or liquid particulate.

3.4 Subp. 4g. **Conditionally exempt stationary source.** "Conditionally exempt  
3.5 stationary source" means a stationary source listed in parts 7008.2100 to 7008.2250 that  
3.6 complies with chapter 7008 and all applicable requirements as defined in part 7007.0100,  
3.7 subpart ~~6b~~ 7, and is not part of another stationary source.

3.8 Subp. 4h. **Conditionally insignificant activity.** "Conditionally insignificant activity"  
3.9 means any emissions unit, emissions units, or activity listed in ~~part~~ parts 7008.4100 to  
3.10 7008.4110 that complies with chapter 7008 and all applicable requirements as defined  
3.11 in part 7007.0100, subpart ~~6b~~ 7.

3.12 [For text of subps 5 to 11d, see M.R.]

3.13 Subp. 11e. **Filterable particulate matter.** "Filterable particulate matter" means  
3.14 material collected up to and on the filter media of the sample train during a performance  
3.15 test for particulate matter.

3.16 Subp. 12. [Repealed by amendment, 8 SR 2275]

3.17 Subp. 12a. **Inorganic condensable particulate matter.** "Inorganic condensable  
3.18 particulate matter" means inorganic material collected and measured by the sample train  
3.19 during a performance test for particulate matter.

3.20 [For text of subps 13 to 29, see M.R.]

3.21 Subp. 29a. **Organic condensable particulate matter.** "Organic condensable  
3.22 particulate matter" means organic material collected and measured by the sample train  
3.23 during a performance test for particulate matter.

Subp. 30. **Owner or operator.** "Owner" or "operator" means a person who owns, leases, operates, controls, or supervises, to any degree, an emissions unit, emission facility, or stationary source.

[For text of subps 30a to 44, see M.R.]

Subp. 45. **Volatile organic compound or VOC.** "Volatile organic compound " or "VOC" means any organic compound which participates in atmospheric photochemical reactions. This includes any organic compound other than the following compounds:

[For text of items A to GG, see M.R.]

HH. 1,1,1,2,3-pentafluoropropane (HFC-245eb);

II. 1,1,1,3,3-pentafluoropropane (HFC-245fa);

[For text of items JJ to NN, see M.R.]

OO. 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane ( $C_4F_9OCH_3$  or HFE-7100);

PP. 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane  
( $((CF_3)_2CFCF_2OCH_3)$ );

QQ. 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ( $C_4F_9OC_2H_5$  or HFE-7200);

RR. 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane  
( $((CF_3)_2CFCF_2OC_2H_5)$ );

[For text of item SS, see M.R.]

TT. 1,1,1,2,2,3,3-heptafluoro-3-methoxy-propane ( $n-C_3F_7OCH_3$ , HFE-7000);

UU. 3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl) hexane  
(HFE-7500);

VV. 1,1,1,2,3,3,3-heptafluoropropane (HFC 227ea);

WW. methyl formate ( $HCOOCH_3$ );

5.1 XX. 1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane  
5.2 (HFE-7300);

5.3 YY. propylene carbonate;

5.4 ZZ. dimethyl carbonate;

5.5 AAA. trans-1,3,3,3-tetrafluoropropene;

5.6 BBB.  $\text{HCF}_2\text{OCF}_2\text{H}$  (HFE-134);

5.7 CCC.  $\text{HCF}_2\text{OCF}_2\text{OCF}_2\text{H}$  (HFE-236cal2);

5.8 DDD.  $\text{HCF}_2\text{OCF}_2\text{CF}_2\text{OCF}_2\text{H}$  (HFE-338pcc13);

5.9 EEE.  $\text{HCF}_2\text{OCF}_2\text{OCF}_2\text{CF}_2\text{OCF}_2\text{H}$  (H-Galden 1040x or H-Galden ZT 130  
5.10 (or 150 or 180));

5.11 FFF. trans 1-chloro-3,3,3-trifluoroprop-1-ene;

5.12 GGG. 2,3,3,3-tetrafluoropropene;

5.13 HHH. 2-amino-2-methyl-1-propanol;

5.14 III. any other compound listed in table 1, as amended, of the United States  
5.15 Environmental Protection Agency's Recommended Policy on Control of Volatile Organic  
5.16 Compounds, Federal Register, volume 42, page 35314, July 8, 1977; or

5.17 JJJ. any other compound determined by the United States Environmental  
5.18 Protection Agency to be negligibly photochemically reactive, upon publication of the  
5.19 determination in the Federal Register.

5.20 **7007.0100 DEFINITIONS.**

5.21 [For text of subps 1 to 6, see M.R.]

5.22 Subp. 6a. **Alternative operating scenario.** "Alternative operating scenario" means a  
5.23 scenario authorized in a part 70 permit that involves a change at the part 70 source for a

particular emissions unit and that either results in the unit being subject to one or more applicable requirements that differ from those applicable to the emissions unit prior to implementation of the change or renders inapplicable one or more requirements previously applicable to the emissions unit prior to implementation of the change.

Subp. 6b. **Approved replicable methodology.** "Approved replicable methodology" means part 70 permit terms that:

A. specify a protocol that is consistent with and implements an applicable requirement, or requirement of this chapter, such that the protocol is based on sound scientific or mathematical principles and provides reproducible results using the same inputs; and

B. require the results of the protocol to be recorded and used for assuring compliance with the applicable requirement, any other applicable requirement implicated by implementation of the approved replicable methodology, or requirement of this chapter, including when an approved replicable methodology is used for determining applicability of a specific requirement to a particular change.

Subp. 7. **Applicable requirement.** "Applicable requirement" means all the following as they apply to emissions units in a stationary source (including requirements that have been promulgated or approved by the EPA or the commissioner through rulemaking at the time of issuance but have future effective compliance dates):

[For text of items A to V, see M.R.]

W. any standard or other requirement established under section 110(a)(2)(D)(i)(I) of the Clean Air Act that regulates interstate transport of pollutants.

[For text of subps 7a to 28, see M.R.]

## **7007.0250 SOURCES REQUIRED TO OBTAIN A STATE PERMIT.**

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

Subp. 4. **PTE threshold required state permit.** Owners and operators of a stationary source must obtain a permit under this part if the source has the potential to emit any pollutant listed below at a rate equal to or greater than the following amounts, in tons per year:

Pollutant	Threshold
Lead	0.5 tons per year
SO <sub>2</sub>	50.0 tons per year
PM-10	25.0 tons per year
VOCs	100.0 tons per year

[For text of subps 5 to 8, see M.R.]

#### **7007.0300 SOURCES NOT REQUIRED TO OBTAIN A PERMIT.**

Subpart 1. **No permit required.** The owners and operators of the following stationary sources are not required to obtain a permit under parts 7007.0100 to 7007.1850:

[For text of items A to C, see M.R.]

D. any stationary source with only emissions units ~~listed as~~ that:

(1) are listed as insignificant activities in part 7007.1300, subparts 2 and 3;

(2) are conditionally insignificant activities under chapter 7008; or

(3) qualify under both subitems (1) and (2).

The owner or operator of a stationary source that has conditionally insignificant activities must comply with parts 7008.4000 to 7008.4110 to qualify for the permit exemption under this part. The owner or operator must maintain records that demonstrate that a permit is not required. These records ~~shall~~ must contain a list of all emissions units and the Minnesota Rules citation that defines those emissions units as an insignificant activity or conditionally insignificant activity. The records ~~shall~~ must be permanently kept

at the stationary source or a central office and be readily available for examination and copying by the commissioner or a representative of the commissioner;

[For text of items E and F, see M.R.]

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

**7007.0350 EXISTING SOURCE APPLICATION DEADLINES AND SOURCE OPERATION DURING TRANSITION.**

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

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

C. The owners and operators of a stationary source must comply with the applicable deadline in this part, even though the stationary source may be operating under a permit issued by the agency under parts 7001.1200 to 7001.1220 (the permit rules in effect before October 18, 1993), and the permit is not due to expire until after the applicable deadline in this part. If a stationary source is operating under a permit issued by the agency under parts 7001.1200 to 7001.1220, and the permit expires after October 18, 1993, but before the applicable deadline, the owners and operators need not reapply before expiration of the permit, but shall comply with the applicable deadline in this part.

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

**7007.0500 CONTENT OF PERMIT APPLICATION.**

[For text of subp 1, see M.R.]

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

A. Information identifying the stationary source and its owners and operators:



- 9.1 (1) facility name and address;
- 9.2 (2) name, address, telephone number, and ownership interest of all owners
- 9.3 of the stationary source;
- 9.4 (3) name, address, telephone number, and ownership interest of all owners
- 9.5 of the real property on which the facility is located;
- 9.6 (4) name, address, and telephone number of all stationary source operators;
- 9.7 (5) name and contact telephone number of the facility site manager or
- 9.8 primary facility contact; and
- 9.9 (6) name, address, and telephone number of the person preparing the
- 9.10 application if different from the facility site manager or primary facility contact.

9.11 B. A description of the stationary source's processes and products (by Standard

9.12 Industrial Classification Code or SIC Code) including any associated with each alternative

9.13 operating scenario identified by the stationary source.

9.14 C. The following emissions-related information:

9.15 [For text of subitem (1), see M.R.]

9.16 (2) The application need not include the information required by this

9.17 part for any activity listed on the insignificant activities list in part 7007.1300 or for

9.18 conditionally insignificant activities, except as provided in this subitem. The application

9.19 shall include a list identifying any activity at the stationary source described in subparts

9.20 3 and 4 of the insignificant activities list and conditionally insignificant activities. If

9.21 requested by the agency, the permittee shall provide a calculation of emissions from any

9.22 activity described in subparts 2, 3, and 4 of the insignificant activities list and conditionally

9.23 insignificant activities. The agency shall request such a calculation if it finds that the

9.24 emissions from those activities, in addition to other emissions from the stationary source,

10.1 could make the stationary source subject to different applicable requirements under parts  
10.2 7007.0100 to 7007.1850.

10.3 [For text of subitem (3), see M.R.]

10.4 (4) The permit application shall specify the potential emissions, as  
10.5 defined in part 7005.0100, subpart 35a, in tons per year from the stationary source as  
10.6 a whole. These potential emissions shall be specified for each regulated air pollutant  
10.7 and each hazardous air pollutant that is not yet a regulated air pollutant, as defined in  
10.8 part 7007.0100, subparts 12a and 19, except that pollutants which are regulated solely  
10.9 under section 112(r) of the act need not be included and pollutants regulated solely under  
10.10 section 602 of the act need not be included. In addition, for each emissions unit subject  
10.11 to an applicable requirement, the permit application shall specify, in tons per year, the  
10.12 potential emissions of the same pollutants referenced in the previous sentence. If the  
10.13 applicable requirement contains a standard reference test method which is to be used to  
10.14 establish compliance, the permit application shall specify the potential emissions in the  
10.15 same units as are used in the test method.

10.16 [For text of subitems (5) to (10), see M.R.]

10.17 (11) A permit application for an amendment must include all calculations  
10.18 of emissions changes required under part 7007.1200.

10.19 (12) A permit application must explain the means by which the emissions  
10.20 information in subitems (1) to (11) is gathered, and provide the calculations on which  
10.21 they are based.

10.22 [For text of items D to J, see M.R.]

10.23 K. For part 70 permit applications only, a compliance plan that contains the  
10.24 following:

10.25 [For text of subitems (1) to (3), see M.R.]

11.1 (4) For applicable requirements associated with a proposed alternative  
11.2 operating scenario, a statement that the source will meet the requirements upon  
11.3 implementation of the alternative operating scenario. If a proposed alternative operating  
11.4 scenario would implicate an applicable requirement that will become effective during the  
11.5 permit term, a statement that the source will meet the requirement on a timely basis.

11.6 (5) For applicable requirements for which the stationary source is not  
11.7 in compliance at the time of application submittal, including applicable requirements  
11.8 associated with a proposed alternative operating scenario, a proposed schedule of  
11.9 compliance. The schedule must include a date specific schedule of remedial measures,  
11.10 including an enforceable sequence of actions with milestones, leading to compliance in  
11.11 the shortest reasonable period of time. The proposed schedule of compliance must begin  
11.12 at the time of permit application, but the applicant may project its compliance status at the  
11.13 time the permit is expected to be issued. This compliance schedule must resemble and be  
11.14 at least as stringent as that contained in any judicial consent decree, stipulation agreement,  
11.15 or administrative order to which the stationary source is subject. The compliance schedule  
11.16 must be supplemental to, and must not sanction noncompliance with, the applicable  
11.17 requirements on which it is based.

11.18 [For text of items L to N, see M.R.]

11.19 Subp. 3. **Application certification.** A responsible official, as defined in part  
11.20 7007.0100, subpart 21, ~~shall~~ must sign and certify any application, ~~notice~~, report, or  
11.21 compliance certification submitted pursuant to parts 7007.0100 to 7007.1850 or notice  
11.22 submitted pursuant to part 7007.0800, subpart 10, item B; 7007.1110, subpart 10, 11, or  
11.23 15a; 7007.1150, item C; 7007.1250, subpart 4; or 7007.1350, subpart 2, with regard to  
11.24 truth, accuracy, and completeness. This certification and any other certification required  
11.25 by parts 7007.0100 to 7007.1850 ~~shall~~ must state that, based on information and belief  
11.26 formed after reasonable inquiry, the statements and information in the document are true,

12.1 accurate, and complete. This subpart ~~shall~~ must be complied with by both the owner and  
12.2 the operator of the stationary source if they are not the same.

12.3 [For text of subps 4 and 5, see M.R.]

12.4 **7007.0502 MERCURY EMISSIONS REDUCTION PLANS.**

12.5 [For text of subp 1, see M.R.]

12.6 Subp. 2. **Applicability.** The owners or operators of an existing mercury emission  
12.7 source must comply with this part. For the purposes of this part, "existing mercury  
12.8 emission source" means that the owners or operators have been issued an air emission  
12.9 permit by the agency as of September 29, 2014. For initial applicability, owners or  
12.10 operators must calculate emissions following methods in part 7019.3030 for the calendar  
12.11 year 2014. If, after 2014, the actual mercury emissions from the existing mercury emission  
12.12 source are below the threshold of three pounds per year or more for three consecutive  
12.13 years, then the stationary source is no longer considered a mercury emission source and is  
12.14 not subject to this part. The owner or operator must:

12.15 A. retain records of the actual mercury emissions for the qualifying three years  
12.16 on site for five years from the date the determination was made;

12.17 B. make the records available for inspection and submit the records, within  
12.18 specified timelines, upon request of the commissioner; and

12.19 C. immediately resume compliance with applicable requirements for mercury  
12.20 emission sources if a physical or operational change causes the stationary source to again  
12.21 become a mercury emission source. Owners or operators must resubmit a mercury  
12.22 emissions reduction plan under subpart 3 within 12 months of again becoming a mercury  
12.23 emission source.

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

13.1 **7007.0600 COMPLETE APPLICATION AND SUPPLEMENTAL INFORMATION**  
13.2 **REQUIREMENTS.**

13.3 Subpart 1. **Complete application.** To be deemed complete, an application must  
13.4 provide all information required by part 7007.0500, except that an application for a  
13.5 permit amendment under parts 7007.1400, 7007.1450, and 7007.1500 need supply only  
13.6 information that is related to the proposed amendment. Information required under part  
13.7 7007.0500 must be sufficient to evaluate the subject stationary source and its application  
13.8 and to determine all applicable requirements. The application shall also contain a  
13.9 certification from a responsible official consistent with part 7007.0500, subpart 3.

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

13.11 **7007.0650 APPLICATION SUBMITTAL.**

13.12 Subpart 1. **Who receives application.** Permit applicants shall submit two printed  
13.13 copies of the complete application and all supplemental information requested by the  
13.14 commissioner to the ~~Minnesota Pollution Control Agency at 520 Lafayette Road North,~~  
13.15 ~~Saint Paul, Minnesota 55155~~ address specified by the commissioner. Upon request of the  
13.16 commissioner, the applicant shall submit additional copies of the application directly to the  
13.17 administrator, affected states, and other governmental entities with the legal right to review  
13.18 the application, or submit additional copies to the agency to be forwarded to these parties.

13.19 Subp. 2. **Electronic application submittal.** Applicants may submit applications and  
13.20 supplemental information in an electronic format specified by the commissioner. If the  
13.21 information is submitted in an electronic format:

13.22 A. the applicant must submit a printed copy of the complete application and  
13.23 supplemental information if requested by the commissioner ~~may allow the applicant to~~  
13.24 ~~submit fewer printed copies than required in subpart 1;~~ and

13.25 B. ~~the application must include~~ the application certification required by part  
13.26 7007.0500, subpart 3, must either:

14.1 (1) be on paper with an original signature; or

14.2 (2) ~~with~~ have an electronic signature, if such a method of signature has  
14.3 been approved by the commissioner.

14.4 **7007.0700 COMPLETENESS REVIEW.**

14.5 A. Within one week of receipt of an application, the agency shall notify the  
14.6 applicant in writing that it has received the application.

14.7 B. Within 60 days of receipt of an application, the agency shall notify the  
14.8 applicant in writing of whether the application is complete. If the agency fails to make  
14.9 the completeness determination required above within the 60-day period, the application  
14.10 shall be deemed complete. A completeness determination under this subpart triggers  
14.11 timelines for permit issuance under part 7007.0750, retroactive to the date the complete  
14.12 application was received by the agency, but does not limit the agency's ability to request  
14.13 additional information.

14.14 C. If an application is incomplete, the agency shall identify the incomplete  
14.15 portions of the application and outline the actions needed to complete the application.

14.16 D. If, during processing of a permit application that has been deemed complete,  
14.17 a minor permit amendment application, or an administrative amendment application, the  
14.18 agency determines that additional information is necessary to evaluate or take final action  
14.19 on that application, it may request such information in writing, and, after consultation with  
14.20 the applicant, set a deadline for a response. In the request for additional information, the  
14.21 agency shall briefly explain why the additional information is needed. If an applicant fails  
14.22 to respond to requests for additional information within the time period requested, the  
14.23 application shall be deemed incomplete. Applicants who have already made a change or  
14.24 begun actual construction of a modification at a permitted facility under part 7007.1450,  
14.25 shall provide the additional information within the time period specified by the agency.

15.1 E. Items A and B do not apply to applications for minor amendments or  
15.2 administrative amendments.

15.3 **7007.0750 APPLICATION PRIORITY AND ISSUANCE TIMELINES.**

15.4 [For text of subp 1, see M.R.]

15.5 Subp. 2. **Application processing and issuance deadlines.**

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

15.7 C. The agency shall take final action on applications for permits or permit  
15.8 amendments not governed by items A and B within the period specified in this item. The  
15.9 agency shall take final action on such an application for a permit, permit reissuance, or  
15.10 major permit amendment within 18 months of receiving a complete application. The  
15.11 agency shall take final action on such an application for a minor permit amendment  
15.12 within 90 days of receiving a complete application or for a moderate permit amendment  
15.13 within six months of receiving a complete application, but not before the end of the  
15.14 administrator's 45-day review period in the case of part 70 permits. The agency shall take  
15.15 final action on an application for an administrative amendment within 60 days of receiving  
15.16 the complete application.

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

15.18 [For text of subps 3 to 6, see M.R.]

15.19 Subp. 7. **Two-stage issuance of permits and permit amendments authorizing**  
15.20 **construction or modification.**

15.21 A. If a permit or permit amendment:

15.22 (1) authorizes construction or modification;

15.23 (2) ~~includes the requirements of a part 70 permit;~~

16.1                   (3) must follow the 45-day EPA review period procedures under part  
16.2 7007.0950; and

16.3                   (4) (3) includes either:

16.4                   (a) the requirements of a new source review program under part C  
16.5 (Prevention of Significant Deterioration of Air Quality) or part D (Plan Requirements for  
16.6 Nonattainment Areas) of the act; or

16.7                   (b) an enforceable limitation assumed to avoid being subject to a new  
16.8 source review program under part C or D of the act,  
16.9 then the agency shall send the permit to the permittee after ~~all requirements~~ the procedural  
16.10 requirements, including public participation procedures, of the applicable new source  
16.11 review program have been satisfied or after all requirements to avoid applicability of  
16.12 a new source review program have been completed including any required notice and  
16.13 comment period. The agency shall at the same time notify the permittee in writing that  
16.14 those permit conditions required by the new source review program or developed to avoid  
16.15 applicability of a new source review program and designated as such by the agency in the  
16.16 permit or amendment, and only those conditions, shall be considered issued.

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

16.18                   [For text of subp 8, see M.R.]

16.19 **7007.0800 PERMIT CONTENT.**

16.20                   [For text of subp 1, see M.R.]

16.21                   Subp. 2. **Emission limitations and standards.** The permit must:

16.22                   A. include emissions limitations, operational requirements, and other provisions  
16.23 needed to ensure compliance with all applicable requirements at the time of permit  
16.24 issuance. For part 70 permits, the requirements and limitations must include approved  
16.25 replicable methodologies identified by the source in its permit application if approved by



17.1 the commissioner, provided that no approved replicable methodologies shall contravene  
17.2 any terms needed to comply with any applicable requirement or requirement of this part  
17.3 or circumvent any applicable requirement that would apply as a result of implementing  
17.4 the approved replicable method;

17.5 B. include any condition the commissioner determines to be necessary to  
17.6 protect human health and the environment;

17.7 C. state that, where another applicable requirement of the act is more stringent  
17.8 than any applicable requirement of regulations promulgated under title IV of the act  
17.9 (Acid Deposition Control), both provisions shall be incorporated into the permit and shall  
17.10 be enforceable by the administrator; and

17.11 D. contain provisions to ensure continuous compliance with applicable  
17.12 emissions limitations during periods of ~~startup~~ start-up and shutdown of an emissions unit;  
17.13 ~~such as operating parameters or best practices to minimize emissions.~~

17.14 [For text of subps 3 to 10, see M.R.]

17.15 Subp. 11. **Alternative operating scenarios.** Terms and conditions allowing for  
17.16 reasonably anticipated alternative operating scenarios identified by the stationary source in  
17.17 its application. Such terms and conditions shall:

17.18 [For text of item A, see M.R.]

17.19 B. ensure that the operation under each such alternative operating scenario  
17.20 complies with all applicable requirements and the requirements of parts 7007.0100  
17.21 to 7007.1850.

17.22 [For text of subps 12 to 16, see M.R.]

17.23 **7007.0801 CONDITIONS FOR AIR EMISSION PERMITS FOR WASTE**  
17.24 **COMBUSTORS.**

17.25 [For text of subp 1, see M.R.]

18.1 Subp. 2. **Mixed municipal solid waste or refuse-derived fuel waste combustors.**

18.2 An air emissions permit for a waste combustor combusting mixed municipal solid waste  
18.3 or refuse-derived fuel must:

18.4 [For text of items A to F, see M.R.]

18.5 G. include operating conditions that ensure that the facility will continue to emit  
18.6 mercury emissions less than 50 percent of the applicable standard if the waste combustor  
18.7 elects to conduct mercury emissions testing as allowed in part 7011.1270 and Minnesota  
18.8 Statutes, section 116.85.

18.9 Subp. 3. **Waste combustors of nonmixed municipal solid waste.** An air emissions  
18.10 permit for a waste combustor which does not combust mixed municipal solid waste or  
18.11 refuse-derived fuel must:

18.12 [For text of items A to E, see M.R.]

18.13 F. include operating conditions that ensure that the facility will continue to emit  
18.14 mercury emissions less than 50 percent of the applicable standard if the waste combustor  
18.15 elects to conduct annual mercury emissions testing as allowed in part 7011.1270 and  
18.16 Minnesota Statutes, section 116.85.

18.17 **7007.0950 EPA REVIEW AND OBJECTION.**

18.18 Subpart 1. **Review by EPA.**

18.19 A. The commissioner must provide to the administrator a copy of the following  
18.20 documents, unless the administrator agrees to accept a summary of the documents:

18.21 [For text of subitems (1) and (2), see M.R.]

18.22 B. In the case of a part 70 permit, the commissioner must provide to the  
18.23 administrator the proposed permit or permit amendment after the draft permit or permit  
18.24 amendment has been subject to public comment.

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

19.2 Subp. 2. **EPA objection.**

19.3 A. In the case of a part 70 permit, the agency shall not issue a permit or permit  
19.4 amendment if the administrator objects to its issuance in writing within 45 days of receipt  
19.5 of the proposed permit or permit amendment and any necessary supporting information.

19.6 B. In the case of a state permit, the agency shall not issue a permit, or an  
19.7 amendment for which EPA review is provided under subpart 1, if the administrator objects  
19.8 to its issuance in writing within 30 days of receipt of the draft permit or amendment  
19.9 and any necessary supporting information.

19.10 [For text of subps 3 and 4, see M.R.]

19.11 **7007.1000 PERMIT ISSUANCE AND DENIAL.**

19.12 Subpart 1. **Preconditions for issuance.** The following conditions must be satisfied  
19.13 for the agency to issue a permit or permit amendment:

19.14 A. the agency has received a complete application for a permit, permit  
19.15 amendment, or permit reissuance, except that a complete application need not be received  
19.16 before issuance of a general permit under part 7007.1100, subpart 4;

19.17 B. the agency has complied with the public participation procedures for permit  
19.18 issuance, if required by part 7007.0850;

19.19 C. the agency has complied with the procedures for notifying and responding to  
19.20 affected states, if required by part 7007.0900;

19.21 D. if the administrator's review is required by part 7007.0950, the administrator  
19.22 has received a copy of the permit and any notices required and has not objected to issuance  
19.23 of the permit within the time period specified, or the administrator has objected but the  
19.24 objection has been resolved to the administrator's satisfaction;

20.1 E. the conditions of the permit provide for compliance with all applicable  
20.2 requirements and the requirements of parts 7007.0100 to 7007.1850, or include a schedule  
20.3 to achieve such compliance;

20.4 F. the permit does not reflect a variance from any federally enforceable  
20.5 applicable requirement or requirement of parts 7007.0100 to 7007.1850;

20.6 G. the agency anticipates that the applicant will, with respect to the stationary  
20.7 source and activity to be permitted, comply with all conditions of the permit; and

20.8 H. all applicable provisions of Minnesota Statutes, chapter 116D, and the rules  
20.9 adopted under Minnesota Statutes, chapter 116D, have been fulfilled.

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

20.11 **7007.1100 GENERAL PERMITS.**

20.12 Subpart 1. **Criteria.** If the agency determines that numerous similar stationary  
20.13 sources are subject to the same or substantially similar regulatory requirements, the  
20.14 agency may issue a permit required under parts 7007.0200 and 7007.0250 in the form of a  
20.15 general permit applying to multiple sources following the procedures in subparts 2 to 7.  
20.16 The agency may also issue general permits under this part which apply only to specific  
20.17 portions of stationary sources, including air pollution control equipment, if the specific  
20.18 portions are subject to the same or substantially similar regulatory requirements. The  
20.19 agency shall specify in the notice in subpart 2 whether the general permit applies to an  
20.20 entire stationary source or to specific portions of a stationary source for the purpose of  
20.21 determining applicability under subpart 11. The agency shall not issue general permits  
20.22 for affected sources under the acid rain program unless general permits are authorized by  
20.23 regulations promulgated under title IV of the act (Acid Deposition Control).

20.24 [For text of subps 2 to 8, see M.R.]

21.1 Subp. 9. **Changes or modifications rendering stationary source ineligible for**  
21.2 **general permit.** The owner and operator of a stationary source that operates under an  
21.3 agency-issued general permit must submit a part 70, state, capped, or registration permit  
21.4 application before making a change or modification that results in the stationary source no  
21.5 longer qualifying for the general permit under this part. The owner or operator may not  
21.6 begin actual construction on the modification until the required part 70, state, capped, or  
21.7 registration permit for the stationary source is obtained or an installation and operation  
21.8 permit for the modification is obtained under part 7007.0750, subpart 5.

21.9 Subp. 10. **Regulatory change rendering stationary source ineligible for general**  
21.10 **permit.**

21.11 A. If a stationary source covered by a general permit becomes subject to a new  
21.12 regulatory requirement that results in the stationary source no longer being able to qualify  
21.13 for or meet the requirements of the general permit, then the owners and operators must:

21.14 (1) submit written notification to the commissioner within 30 days of the  
21.15 effective date of a new regulation that results in the stationary source no longer being  
21.16 able to qualify for or meet the requirements of the general permit. The notification must  
21.17 include a description of the regulatory change and a statement of what type of permit  
21.18 application the owners and operators will submit under subitem (2); and

21.19 (2) submit either a part 70, state, capped, or registration permit application  
21.20 within 180 days of the effective date of the regulatory change.

21.21 B. The owners and operators must submit the required permit application for  
21.22 the appropriate air emission permit within the time limits in item A. If the owners and  
21.23 operators fail to submit the required permit application in the time required, the owners  
21.24 and operators do not hold a valid permit and are in violation of part 7007.0150, subpart 1.

22.1 Subp. 11. **Parts that do not apply to certain general permits.** For general permits  
22.2 that cover an entire stationary source, parts 7007.1150 to 7007.1250 and 7007.1350 to  
22.3 7007.1500 do not apply.

22.4 **7007.1142 CAPPED PERMIT ISSUANCE AND CHANGE OF PERMIT STATUS.**

22.5 Subpart 1. **Capped permit issuance, denial, and revocation.**

22.6 A. ~~The following conditions must be satisfied~~ To be eligible to receive a capped  
22.7 permit and for the commissioner to issue a capped permit to, the owners and operators of  
22.8 a stationary source must meet the following conditions:

22.9 (1) the owners and operators have submitted a complete application for a  
22.10 capped permit;

22.11 (2) the commissioner determines that the stationary source qualifies for  
22.12 the capped permit option under parts 7007.1140 to 7007.1148 for which the application  
22.13 was submitted; and

22.14 (3) the commissioner has reason to believe that the stationary source will  
22.15 comply with the capped permit.

22.16 B. The commissioner shall deny an application for a capped permit if the  
22.17 commissioner determines that the stationary source does not qualify for the capped permit  
22.18 option under parts 7007.1140 to 7007.1148 for which the application was submitted or that  
22.19 the stationary source will not be able to comply with the capped permit. The grounds for  
22.20 permit denial in parts 7007.1000, subpart 1, item H, and part 7007.1000, subpart 2, items  
22.21 B to G, also constitute grounds for the commissioner to deny a capped permit application.

22.22 C. The commissioner may revoke a capped permit, if the commissioner finds  
22.23 that any of the grounds under subpart 6 or under part 7007.1700, subpart 1, exist, by  
22.24 following the procedure in part 7007.1700, subpart 2.

23.1 Subp. 1a. **Changes that trigger new source performance standards.** If a change  
23.2 or modification made at a stationary source that is operating under a capped permit results  
23.3 in the stationary source being subject to a new source performance standard listed under  
23.4 part 7007.1140, subpart 2, item E, or if the change or modification adds an emissions unit  
23.5 subject to the standards listed in part 7007.0300, the owner or operator must submit to  
23.6 the commissioner:

23.7 A. the information required by the standard by the time specified in the standard;

23.8 B. written notice that contains a description of the change; and

23.9 C. a copy of the applicable new source performance standard part, with the  
23.10 applicable portions of the new source performance standard highlighted, including the  
23.11 applicable parts of Code of Federal Regulations, title 40, part 60, subpart A, as amended,  
23.12 or a new source performance standard form provided by the commissioner that identifies  
23.13 applicable portions of the new source performance standard.

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

23.15 **7007.1150 WHEN A PERMIT AMENDMENT IS REQUIRED.**

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

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

23.21 (1) installing air pollution control equipment;

23.22 (2) replacing a unit identified in the permit; or

23.23 (3) replacing existing air pollution control equipment with listed control  
23.24 equipment, as defined in part 7011.0060, subpart 4, ~~that meets the control equipment~~  
23.25 ~~efficiencies for listed control equipment in part 7011.0070 and has an equivalent or better~~

24.1 ~~control efficiency of regulated pollutants previously controlled with the control equipment~~  
24.2 ~~being replaced.~~ provided that the replacement air pollution control equipment:

24.3 (a) attains at least the control equipment efficiency in part 7011.0070  
24.4 for each applicable pollutant; and

24.5 (b) has a listed control efficiency in part 7011.0070 that is equivalent  
24.6 to or better than the control efficiency of the control equipment being replaced for each  
24.7 applicable pollutant.

24.8 The notice must be received by the agency at least seven working days prior to the  
24.9 installation or replacement. The permittee must submit the notice in a format specified  
24.10 by the commissioner. The notice must include all information needed to determine the  
24.11 applicability of a requirement or to impose any applicable requirement. The notice must  
24.12 be certified by a responsible official in the manner provided in part 7007.0500, subpart  
24.13 3. The permittee and the agency shall attach the notice to the stationary source's permit.  
24.14 If the agency finds that the installation or replacement triggers new monitoring, record  
24.15 keeping, or reporting requirements under applicable requirements or parts 7007.0100 to  
24.16 7007.1850, the agency shall initiate an amendment under part 7007.1400 or 7007.1500  
24.17 to include the new requirements. If the installation or replacement constitutes a title  
24.18 I modification or other type of modification, this item does not apply, and the permittee  
24.19 shall follow the applicable procedures of part 7007.1250, 7007.1350, 7007.1450, or  
24.20 7007.1500. If notice is provided as required by this item, the installation and operation of  
24.21 the additional equipment shall not be considered a violation of the permit.

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

24.23 **7007.1250 INSIGNIFICANT MODIFICATIONS.**

24.24 Subpart 1. **When an insignificant modification can be made.** The permittee  
24.25 may make a modification described in either item A or B at a permitted stationary  
24.26 source without getting a permit amendment, unless the modification is prohibited by



25.1 subpart 2. However, if the modification triggers new monitoring, record keeping, or  
 25.2 reporting requirements under applicable requirements or parts 7007.0100 to 7007.1850,  
 25.3 the permittee shall initiate an administrative amendment under part 7007.1400 to include  
 25.4 the new requirements no more than 30 days after making the modification.

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

25.7 B. Any modification that will:

25.8 (1) result in an increase of a regulated air pollutant which is not listed  
 25.9 in table 1; or

25.10 (2) result in an increase of an air pollutant which is listed in table 1, but in  
 25.11 an amount less than the corresponding threshold.

25.12 **Table 1**

25.13	<b>Pollutant</b>		<b>Threshold</b>
25.14	NO <sub>x</sub>	2.28	pounds per hour
25.15	SO <sub>2</sub>	2.28	pounds per hour
25.16	VOCs	2.28	pounds per hour
25.17	PM-10	0.855	pounds per hour
25.18	CO	5.70	pounds per hour
25.19	Lead	0.025	pounds per hour

25.20 For purposes of this subpart, whether or not the modification will cause an increase in  
 25.21 emissions shall be calculated as described in part 7007.1200. An owner or operator  
 25.22 may not use control equipment efficiencies for listed control equipment determined by  
 25.23 part 7011.0070 to qualify for an insignificant modification, unless the specifications for  
 25.24 the control equipment are from a control equipment manufacturer, as defined in part  
 25.25 7011.0060, subpart 3. Modifications which would otherwise be insignificant under this  
 25.26 part may be title I modifications, for which a major amendment is required, using the

26.1 methods of calculation required under title I of the act. Permittees are reminded to review  
26.2 the definition of title I modifications and the requirements of title I of the act.

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

26.4 **7007.1300 INSIGNIFICANT ACTIVITIES LIST.**

26.5 [For text of subp 1, see M.R.]

26.6 Subp. 2. **Insignificant activities not required to be listed.** The activities described  
26.7 in this subpart are not required to be listed in a permit application under part 7007.0500,  
26.8 subpart 2, item C, subitem (2). Calculation of emissions from these activities must be  
26.9 provided if required by the agency under part 7007.0500, subpart 2, item C, subitem (2).  
26.10 If emissions units listed in this subpart (a) are subject to additional requirements under  
26.11 section 114(a)(3) (Monitoring Requirements) or 112 (Hazardous Air Pollutants) of the  
26.12 act; (b) are part of a Title I modification; or (c) if accounted for, make a stationary source  
26.13 subject to a part 70 permit, then emissions from the emissions units must be provided  
26.14 in the permit application.

26.15 [For text of items A to C, see M.R.]

26.16 D. Processing operations:

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

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

26.21 (3) blast cleaning operations using suspension of abrasive in water.

26.22 [For text of items E to K, see M.R.]

26.23 Subp. 3. **Insignificant activities required to be listed.** The activities described in  
26.24 this subpart must be listed in a permit application, and calculation of emissions from these

27.1 activities shall be provided if required by the agency, under part 7007.0500, subpart 2,  
27.2 item C, subitem (2). If emissions units listed in this subpart are subject to additional  
27.3 requirements under section 114(a)(3) of the act (Monitoring Requirements) or section 112  
27.4 of the act (Hazardous Air Pollutants), or if part of a title I modification, or, if accounted  
27.5 for, make a stationary source subject to a part 70 permit, emissions from the emissions  
27.6 units must be calculated in the permit application.

27.7 [For text of item A, see M.R.]

27.8 B. Infrared electric ovens and indirect heating equipment:

27.9 (1) infrared electric ovens; and

27.10 (2) indirect heating equipment as defined in part 7011.0600, subpart 6, with  
27.11 a capacity less than 420,000 Btu per hour, but only if the total combined capacity of all  
27.12 indirect heating equipment at the stationary source with a capacity less than 420,000 Btu  
27.13 per hour is less than or equal to 1,400,000 Btu per hour. For example: Facility A has  
27.14 three furnaces, each with a capacity of 400,000 Btu per hour. The three units are all an  
27.15 insignificant activity to be listed under this subitem, because their combined capacity  
27.16 is less than 1,400,000 Btu per hour. Facility B has six furnaces, each with a capacity  
27.17 of 400,000 Btu per hour. None of the six units is an insignificant activity under this  
27.18 subitem, because their total combined capacity is greater than 1,400,000 Btu per hour.  
27.19 For purposes of this subitem, "indirect heating equipment" has the meaning given under  
27.20 part 7011.0500, subpart 9.

27.21 C. Fabrication operations: equipment used exclusively for forging, pressing,  
27.22 drawing, spinning, or extruding hot metals.

27.23 D. Processing operations:

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

28.1 (2) equipment that vents particulate matter (PM), PM-10, or PM-2.5 inside  
28.2 a building, such as buffing, polishing, carving, cutting, drilling, machining, routing,  
28.3 sanding, sawing, surface grinding, or turning equipment, provided that emissions from  
28.4 the equipment are:

28.5 (a) vented inside of the building 100 percent of the time; and

28.6 (b) not vented through air filtering systems.

28.7 [For text of items E and F, see M.R.]

28.8 G. Emissions from a laboratory, as defined in this item. "Laboratory" means  
28.9 a place or activity devoted to experimental study or teaching in any science, or to the  
28.10 testing and analysis of drugs, chemicals, chemical compounds or other substances, or  
28.11 similar activities, provided that the activities described in this sentence are conducted on a  
28.12 laboratory scale. Activities are conducted on a laboratory scale if the containers used for  
28.13 reactions, transfers, and other handling of substances are designed to be easily and safely  
28.14 manipulated by one person. If an emission facility manufactures or produces products for  
28.15 profit in any quantity, it may not be considered to be a laboratory under this item. Support  
28.16 activities necessary to the operation of the laboratory are considered to be part of the  
28.17 laboratory. Support activities do not include the provision of power to the laboratory from  
28.18 sources that provide power to multiple projects or from sources which would otherwise  
28.19 require permitting, such as boilers that provide power to an entire facility.

28.20 H. Miscellaneous:

28.21 [For text of subitems (1) to (6), see M.R.]

28.22 (7) cleaning operations: alkaline/phosphate cleaners and associated  
28.23 cleaners.

28.24 [For text of items I to K, see M.R.]

29.1 Subp. 4. **Insignificant activities required to be listed in a part 70 application.**

29.2 If the owners and operators are applying for the initial part 70 permit for a stationary  
 29.3 source, emissions units with emissions less than all the following limits but not included  
 29.4 in subpart 2 must be listed in the part 70 permit application:

29.5 [For text of items A to D, see M.R.]

29.6 Subp. 5. **Hazardous air pollutant threshold table.**

29.7	CAS#	Chemical Name	De Minimis
29.8			Level
29.9			(tons/year)
29.10	57147	1,1-Dimethyl hydrazine	0.008
29.11	79005	1,1,2-Trichloroethane <u>Trichloroethane</u>	1
29.12	79345	1,1,2,2-Tetrachloroethane	0.3
29.13	96128	1,2-Dibromo-3-chloropropane	0.01
29.14	122667	1,2-Diphenylhydrazine	0.09
29.15	106887	1,2-Epoxybutane	1
29.16	75558	1,2-Propylenimine (2-Methyl aziridine)	0.003
29.17	120821	1,2,4-Trichlorobenzene	10
29.18	106990	1,3-Butadiene	0.07
29.19	542756	1,3-Dichloropropene	1
29.20	1120714	1,3-Propane sultone	0.03
29.21	106467	1,4-Dichlorobenzene(p)	3
29.22	123911	1,4-Dioxane (1,4-Diethyleneoxide)	6
29.23	53963	2-Acetylaminofluorine	0.005
29.24	532274	2-Chloroacetophenone	0.06
29.25	79469	2-Nitropropane	1
29.26	540841	2,2,4-Trimethylpentane	5
29.27	1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	6E-07
29.28	584849	2,4-Toluene diisocyanate	0.1
29.29	51285	2,4-Dinitrophenol	1
29.30	121142	2,4-Dinitrotoluene	0.02

30.1	94757 2,4-D, salts, esters (2,4-Dichlorophenoxy acetic acid)	10
30.2	95807 2,4-Toluene diamine	0.02
30.3	95954 2,4,5-Trichlorophenol	1
30.4	88062 2,4,6-Trichlorophenol	6
30.5	91941 3,3-Dichlorobenzidine	0.2
30.6	119904 3,3'-Dimethoxybenzidine	0.1
30.7	119937 3,3'-Dimethyl benzidine	0.008
30.8	92671 4-Aminobiphenyl	1
30.9	92933 4-Nitrobiphenyl	1
30.10	100027 4-Nitrophenol	5
30.11	101144 4,4-Methylene bis(2-chloroaniline)	0.2
30.12	101779 4,4'-Methylenedianiline	1
30.13	534521 4,6-Dinitro-o-cresol, and salts	0.1
30.14	75070 Acetaldehyde	9
30.15	60355 Acetamide	1
30.16	75058 Acetonitrile	4
30.17	98862 Acetophenone	1
30.18	107028 Acrolein	0.04
30.19	79061 Acrylamide	0.02
30.20	79107 Acrylic acid	0.6
30.21	107131 Acrylonitrile	0.3
30.22	107051 Allyl chloride	1
30.23	62533 Aniline	1
30.24	71432 Benzene	2
30.25	92875 Benzidine	0.0003
30.26	98077 Benzotrichloride	0.006
30.27	100447 Benzyl chloride	0.1
30.28	57578 beta-Propiolactone	0.1
30.29	92524 Biphenyl	10
30.30	117817 Bis(2-ethylhexyl)phthalate(DEHP)	5

31.1	542881 Bis(chloromethyl)ether	0.0003
31.2	75252 Bromoform	10
31.3	156627 Calcium cyanamide	10
31.4	133062 Captan	10
31.5	63252 Carbaryl	10
31.6	75150 Carbon disulfide	1
31.7	56235 Carbon tetrachloride	1
31.8	463581 Carbonyl sulfide	5
31.9	120809 Catechol	5
31.10	133904 Chloramben	1
31.11	57749 Chlordane	0.01
31.12	7782505 Chlorine	0.1
31.13	79118 Chloroacetic acid	0.1
31.14	108907 Chlorobenzene	10
31.15	510156 Chlorobenzilate	0.4
31.16	67663 Chloroform	0.9
31.17	107302 Chloromethyl methyl ether	0.1
31.18	126998 Chloroprene	1
31.19	1319773 Cresols/Cresylic acid (isomers and mixture)	1
31.20	95487 o-Cresol	1
31.21	108394 m-Cresol	1
31.22	106445 p-Cresol	1
31.23	98828 Cumene	10
31.24	334883 Diazomethane	1
31.25	132649 Dibenzofuran	5
31.26	72559 DDE (p,p'-Dichlorodiphenyldichloroethylene)	0.01
31.27	84742 Dibutylphthalate	10
31.28	111444 Dichloroethyl ether (Bis(2-chloroethyl)ether)	0.06
31.29	62737 Dichlorvos	0.2
31.30	11422 Diethanolamine	5

32.1	64675 Diethyl sulfate	1
32.2	60117 Dimethyl aminoazobenzene	1
32.3	79447 Dimethyl carbamoyl chloride	0.02
32.4	68122 Dimethyl formamide	1
32.5	131113 Dimethyl phthalate	10
32.6	77781 Dimethyl sulfate	0.1
32.7	106898 Epichlorohydrin	2
32.8	140885 Ethyl acrylate	1
32.9	100414 Ethyl benzene	10
32.10	51796 Ethyl carbamate (Urethane)	0.8
32.11	75003 Ethyl chloride	10
32.12	106934 Ethylene dibromide (Dibromoethane)	0.1
32.13	107062 Ethylene dichloride (1,2-Dichloroethane)	0.8
32.14	107211 Ethylene glycol	10
32.15	151564 Ethylene imine (Aziridine)	0.003
32.16	75218 Ethylene oxide	0.1
32.17	96457 Ethylene thiourea	0.6
32.18	75343 Ethylidene dichloride (1,1-Dichloroethane)	1
32.19	50000 Formaldehyde	2
32.20	76448 Heptachlor	0.02
32.21	118741 Hexachlorobenzene	0.01
32.22	87683 Hexachlorobutadiene	0.9
32.23	77474 Hexachlorocyclopentadiene	0.1
32.24	67721 Hexachloroethane	5
32.25	822060 Hexamethylene,-1,6-diisocyanate	0.02
32.26	680319 Hexamethylphosphoramidate	0.01
32.27	110543 Hexane	10
32.28	302012 Hydrazine	0.004
32.29	7647010 Hydrochloric acid	10
32.30	7664393 Hydrogen fluoride	0.1



33.1	123319 Hydroquinone	1
33.2	78591 Isophorone	10
33.3	58899 Lindane (hexachlorocyclohexane, gamma)	0.01
33.4	108316 Maleic anhydride	1
33.5	67561 Methanol	10
33.6	72435 Methoxychlor	10
33.7	74839 Methyl bromide (Bromomethane)	10
33.8	74873 Methyl chloride (Chloromethane)	10
33.9	71556 Methyl chloroform (1,1,1-Trichloroethane)	10
33.10	60344 Methyl hydrazine	0.06
33.11	74884 Methyl iodide (Iodomethane)	1
33.12	108101 Methyl isobutyl ketone	10
33.13	624839 Methyl isocyanate	0.1
33.14	80626 Methyl methacrylate	10
33.15	1634044 Methyl tert-butyl ether	10
33.16	12108133 Methylcyclopentadienyl manganese	0.1
33.17	75092 Methylene chloride (Dichloromethane)	10
33.18	101688 Methylene diphenyl diisocyanate	0.1
33.19	91203 Naphthalene	10
33.20	98953 Nitrobenzene	1
33.21	62759 N-Nitrosodimethylamine	0.001
33.22	69892 N-Nitrosomorpholine	1
33.23	684935 N-Nitroso-N-methylurea	0.0002
33.24	121697 N,N-Dimethylaniline	1
33.25	90040 o-Anisidine	1
33.26	95534 o-Toluidine	4
33.27	56382 Parathion	0.1
33.28	82688 Pentachloronitrobenzene (Quintobenzene)	0.3
33.29	87865 Pentachlorophenol	0.7
33.30	108952 Phenol	0.1

34.1	75445 Phosgene	0.1
34.2	7803512 Phosphine	5
34.3	7723140 Phosphorous	0.1
34.4	85449 Phthalic anhydride	5
34.5	1336363 Polychlorinated biphenyls (Aroclors)	0.009
34.6	106503 p-Phenylenediamine	10
34.7	123386 Propionaldehyde	5
34.8	114261 Propoxur (Baygone)	10
34.9	78875 Propylene dichloride (1,2-Dichloropropane)	1
34.10	75569 Propylene oxide	5
34.11	91225 Quinoline	0.006
34.12	106514 Quinone	5
34.13	100425 Styrene	1
34.14	96093 Styrene oxide	1
34.15	127184 Tetrachloroethylene (Perchloroethylene)	10
34.16	7550450 Titanium tetrachloride	0.1
34.17	108883 Toluene	10
34.18	8001352 Toxaphene (chlorinated camphene)	0.01
34.19	79016 Trichloroethylene	10
34.20	121448 Triethylamine	10
34.21	1582098 Trifluralin	9
34.22	108054 Vinyl acetate	1
34.23	593602 Vinyl bromide (bromoethene)	0.6
34.24	75014 Vinyl chloride	0.2
34.25	75354 Vinylidene chloride (1,1-Dichloroethylene)	0.4
34.26	1330207 Xylenes (isomers and mixture)	10
34.27	108383 m-Xylenes	10
34.28	95476 o-Xylenes	10
34.29	106423 p-Xylenes	10
34.30	- Arsenic and inorganic arsenic compounds	0.005

35.1	7784421 Arsine	0.1
35.2	- Antimony compounds (except those specifically listed)*	5
35.3	1309644 Antimony trioxide	1
35.4	1345046 Antimony trisulfide	0.1
35.5	7783702 Antimony pentafluoride	0.1
35.6	28300745 Antimony potassium tartrate	1
35.7	- Beryllium compounds (except Beryllium salts)	0.008
35.8	- Beryllium salts	0.00002
35.9	- Cadmium compounds	0.01
35.10	130618 Cadmium oxide	0.01
35.11	- Chromium compounds (except Hexavalent and Trivalent)	5
35.12	- Hexavalent Chromium compounds	0.002
35.13	- Trivalent Chromium compounds	5
35.14	10025737 Chromic chloride	0.1
35.15	744084 Cobalt metal (and compounds, except those specifically	0.1
35.16	listed)*	
35.17	10210681 Cobalt carbonyl	0.1
35.18	62207765 Fluomine	0.1
35.19	- Coke oven emissions	0.03
35.20	- Cyanide compounds (except those specifically listed)*	5
35.21	143339 Sodium cyanide	0.1
35.22	151508 Potassium cyanide	0.1
35.23	- Glycol ethers (except those specifically listed)*	5
35.24	110805 2-Ethoxy ethanol	10
35.25	111762 Ethylene glycol monobutyl ether	10
35.26	108864 2-Methoxy ethanol	10
35.27	- Lead and compounds (except those specifically listed)*	0.01
35.28	75741 Tetramethyl lead	0.01
35.29	78002 Tetraethyl lead	0.01
35.30	7439965 Manganese and compounds (except those specifically	0.8
35.31	listed)*	

36.1	12108133 Methylcyclopentadienyl manganese	0.1
36.2	- Mercury compounds (except those specifically listed)*	0.01
36.3	10045940 Mercuric nitrate	0.01
36.4	748794 Mercuric chloride	0.01
36.5	62384 Phenyl mercuric acetate	0.01
36.6	- Elemental Mercury	0.01
36.7	- Mineral fiber compounds (except those specifically listed)*	a
36.8	1332214 Asbestos	a
36.9	- Erionite	a
36.10	- Silica (crystalline)	a
36.11	- Talc (containing asbestos from fibers)	a
36.12	- Glass wool	a
36.13	- Rock wool	a
36.14	- Slag wool	a
36.15	- Ceramic fibers	a
36.16	- Nickel compounds (except those specifically listed)*	1
36.17	13463393 Nickel Carbonyl	0.1
36.18	12035722 Nickel refinery dust	0.08
36.19	- Nickel subsulfide	0.04
36.20	- Polycyclic organic matter-POM (except those specifically	0.01
36.21	listed)*	
36.22	56553 Benz(a)anthracene	0.01
36.23	50328 Benzo(a)pyrene	0.01
36.24	205992 Benzo(b)fluoranthene	0.01
36.25	57976 7,12-Dimethylbenz(a)anthracene	0.01
36.26	225514 Benz(c)acridine	0.01
36.27	218019 Chrysene	0.01
36.28	53703 Dibenz(ah)anthracene	0.01
36.29	189559 1,2:7,8-Dibenzopyrene	0.01
36.30	193395 Indeno(1,2,3-cd)pyrene	0.01
36.31	- Dioxins & Furans (TCDD equivalent)**	-

37.1	7782492 Selenium and compounds (except those specifically listed)*	0.1
37.2	7488564 Selenium sulfide (mono and di)	0.1
37.3	7783075 Hydrogen selenide	0.1
37.4	10102188 Sodium selenite	0.1
37.5	13410010 Sodium selenate	0.1
37.6	99999918 Radionuclides (including radon)	b

37.7 \* - For this chemical group, specific compounds or subgroups are named specifically in  
37.8 this table. For the remainder of the chemicals of the chemical group, a single de minimis  
37.9 value is listed, which applies to compounds which are not named specifically.

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

37.19 a - De minimis values are zero. Currently available data do not support assignment of a  
37.20 "trivial" emission rate; therefore, the value assigned will be policy based.

37.21 b - The EPA relies on Code of Federal Regulations, title 40, part 61, subparts B and I, and  
37.22 Appendix E, and assigns a de minimis level based on an effective dose equivalent of 0.3  
37.23 millirem per year for a seven-year exposure period that would result in a cancer risk of one  
37.24 per million. The individual radionuclides subject to de minimis levels are contained in  
37.25 Code of Federal Regulations, title 40, part 61.

37.26 **7007.1350 CHANGES THAT CONTRAVENE CERTAIN PERMIT TERMS.**

37.27 [For text of subp 1, see M.R.]

38.1 Subp. 2. **Procedure.** Changes authorized under this part may not be made until seven  
38.2 working days after the agency receives written notice of the change. The permittee must  
38.3 submit the notice in a format specified by the commissioner. The notice shall include a  
38.4 certification, consistent with part 7007.0500, subpart 3, by a responsible official describing  
38.5 the change to be made, identifying the term of the permit which is being contravened,  
38.6 stating that the change is authorized under this part, and briefly describing how it qualifies  
38.7 under this part. The permittee and the agency shall attach the notice to the stationary  
38.8 source's permit. If the agency finds that the proposed change is not authorized under this  
38.9 part, the agency shall notify the permittee of that finding and, if the proposed change could  
38.10 be made using other procedures, direct the permittee to those procedures.

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

38.12 **7007.1400 ADMINISTRATIVE PERMIT AMENDMENTS.**

38.13 Subpart 1. **Administrative amendments allowed.** The agency may make the permit  
38.14 amendments described in this subpart through the administrative permit amendment  
38.15 process described in this part. An owner or operator of a stationary source must apply for  
38.16 an administrative amendment if changes are to be made under item B or E:

38.17 [For text of items A to C, see M.R.]

38.18 D. an amendment to eliminate monitoring, record keeping, or reporting  
38.19 requirements if:

38.20 (1) the requirements are rendered meaningless because the only emissions  
38.21 to which the requirements apply will no longer occur;

38.22 (2) the requirements are technically incorrect and their elimination does  
38.23 not affect the accuracy of the data generated or of the monitoring information recorded  
38.24 or reported; or

39.1 (3) the emission unit to which the monitoring, record keeping, or reporting  
39.2 requirement applies no longer exists or has been permanently disabled from use at the  
39.3 stationary source;

39.4 [For text of item E, see M.R.]

39.5 F. an amendment to incorporate into a permit the requirements from  
39.6 preconstruction review permits issued by the agency;

39.7 [For text of items G to J, see M.R.]

39.8 K. an amendment to incorporate the extension of a deadline in a permit for  
39.9 construction authorization established under a new source review program under part C  
39.10 (Prevention of Significant Deterioration of Air Quality) of the act, provided the extension  
39.11 of the deadline for construction authorization has been approved by the commissioner  
39.12 prior to the submittal of the administrative amendment application.

39.13 Subp. 2. **Initiating an administrative amendment.** A permittee must submit an  
39.14 application for an administrative amendment in a format specified by the commissioner.  
39.15 The application must be certified by a responsible official in the manner provided in part  
39.16 7007.0500, subpart 3. The permittee shall specify the section of the permit that is to be  
39.17 amended, and the reason for the amendment. The agency may also make an administrative  
39.18 amendment upon its own initiative. If an administrative amendment initiated by the  
39.19 agency would impose additional or different requirements on the permittee, the permittee  
39.20 shall be notified of the proposed amendment 30 days prior to its taking effect, unless  
39.21 the permittee consents to less notice. If the permittee objects to the amendment, the  
39.22 amendment shall not be made under this part, but the agency may reopen the permit under  
39.23 parts 7007.1500 and 7007.1600.

39.24 Subp. 3. **Timeline for final action.** The agency shall take no more than 60 days from  
39.25 receipt of an application for an administrative permit amendment to take final action on

the application. Amendments made by the agency under this part shall be made without public notice or an opportunity for public and affected states comment and hearing.

[For text of subps 4 to 6, see M.R.]

Subp. 7. **When permittee may make change.** Notwithstanding part 7007.0150, subpart 1, the permittee may make the change proposed in the administrative amendment application immediately after the application is received by the agency, if the change is described in subpart 1. However, if the change is of ownership or operational control, the new owner's or operator's right to operate the permitted stationary source under the previous sentence is contingent upon the new owner's or operator's compliance with the terms of the stationary source's permit.

#### **7007.1500 MAJOR PERMIT AMENDMENTS.**

Subpart 1. **Major permit amendment required.** A "major permit amendment" is required for any change to permit conditions or any modification at a permitted stationary source that is not allowed under parts 7007.1250 and 7007.1350 and for which an amendment cannot be obtained under the administrative permit amendment provisions of part 7007.1400, or the minor or moderate permit amendment provisions of part 7007.1450. The following always require major permit amendments:

A. any significant amendment to existing monitoring, reporting, or record keeping requirements in the permit other than:

- (1) adding new requirements;
- (2) eliminating the requirements if they are rendered meaningless because the only emissions to which the requirements apply will no longer occur;
- (3) eliminating the requirements that are technically incorrect where the elimination does not affect the accuracy of the data generated or of the monitoring information recorded or reported; or



41.1 (4) eliminating the requirements for an emission unit that no longer exists  
41.2 or has been permanently disabled from use at the stationary source;

41.3 B. any amendment to establish or amend a permit condition that is based  
41.4 on a case-by-case determination of an emission limitation or other standard, on a  
41.5 source-specific determination of ambient impacts, or on a visibility or increment analysis;

41.6 [For text of items C to E, see M.R.]

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

41.8 **7007.1600 PERMIT REOPENING AND AMENDMENT BY AGENCY.**

41.9 Subpart 1. **Mandatory reopening.** The agency shall reopen and amend a permit  
41.10 when:

41.11 A. Additional federal applicable requirements become applicable to a stationary  
41.12 source with a remaining permit term of three or more years or with a permit which is  
41.13 nonexpiring. Such a reopening and amendment shall be completed not later than 18  
41.14 months after promulgation of the federal applicable requirement. An affected permittee  
41.15 must submit a permit application as required under part 7007.0400, subpart 3, to provide  
41.16 the information needed to issue the amendment. No such reopening is required if the  
41.17 effective date of the requirement is later than the date on which the permit is due to expire.

41.18 [For text of items B to D, see M.R.]

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

41.20 **7008.0100 DEFINITIONS.**

41.21 [For text of subps 1 and 2, see M.R.]

41.22 Subp. 2a. **Material usage.** "Material usage" means an activity at a stationary source  
41.23 ~~when a material~~ such as a the application or use of ink, paint, coating, adhesive, or solvent  
41.24 ~~is applied or used~~ in a way that emits only VOC, hazardous air pollutants, particulate

42.1 matter, PM-10, PM-2.5, or a combination thereof and emissions of these pollutants can be  
42.2 calculated on a mass balance basis as described in part 7008.4100. Material usage does  
42.3 not include material processes such as sanding, milling, materials reacting to form new  
42.4 materials, fuel usage, or grain or other material handling.

42.5 Subp. 2b. **Recycling.** "Recycling" means the reclamation or reuse of waste  
42.6 VOC-containing or hazardous air pollutant-containing materials from material usage  
42.7 activities, ~~as defined in part 7045.0020.~~ For purposes of this subpart, "reclamation" has  
42.8 the meaning given in part 7045.0020, subpart 73c, and "reuse" has the meaning given  
42.9 in part 7045.0020, subpart 75a.

42.10 Subp. 2c. **Solids.** "Solids" means the nonvolatile portion of the material applied or  
42.11 used in a material usage activity.

42.12 [For text of subps 3 and 4, see M.R.]

42.13 Subp. 5. **Transfer efficiency.** "Transfer efficiency" means the ratio of the weight  
42.14 of ~~coating~~ solids adhering in the material that adheres to an object ~~being coated~~ to the  
42.15 total weight of ~~coating~~ solids in the material used in the application process. Transfer  
42.16 efficiency varies with the type of application method and is obtained from the application  
42.17 equipment manufacturer. If the manufacturer provides a range for the transfer efficiency,  
42.18 the transfer efficiency for calculating particulate matter, PM-10, and PM-2.5 emissions is  
42.19 the minimum specified in the range.

42.20 **7008.4000 CONDITIONALLY INSIGNIFICANT ACTIVITIES.**

42.21 If operated in compliance with this part and parts 7008.4100 and 7008.4110, the  
42.22 activities and operation of the emissions units listed in parts 7008.4100 and 7008.4110  
42.23 are insignificant activities for purposes of parts 7007.0100 to 7007.1850. To qualify for  
42.24 the exemption from permitting in part 7007.0300, subpart 1, item D, subitem (2) or (3),  
42.25 the owner or operator of a stationary source that has the potential to emit any pollutant  
42.26 in excess of a permitting threshold in chapter 7007 must comply with the requirements

43.1 of parts 7008.4000 to 7008.4110. Listing in part 7008.4100 or 7008.4110 has no effect  
43.2 on any other law, including laws enforced by the agency other than parts 7007.0100 to  
43.3 7007.1850, to which the activity may be subject.

43.4 The activities described in parts 7008.4100 and 7008.4110 must be listed in a permit  
43.5 application, and calculation of emissions from these activities shall be provided if required  
43.6 by the agency, under part 7007.0500, subpart 2, item C, subitem (2). If emissions units  
43.7 listed in part 7008.4100 or 7008.4110 are subject to additional requirements under section  
43.8 114(a)(3) of the act (Monitoring Requirements) or section 112 of the act (Hazardous Air  
43.9 Pollutants), or if part of a title I modification, or, if accounted for, make a stationary  
43.10 source subject to a part 70 permit, emissions from the emissions units must be calculated  
43.11 in the permit application.

43.12 **7008.4100 CONDITIONALLY INSIGNIFICANT MATERIAL USAGE.**

43.13 Subpart 1. **Applicability.** This part applies to the owner or operator of a stationary  
43.14 source claiming material usage in coating and solvent cleaning operations as a  
43.15 conditionally insignificant activity. To qualify as a conditionally insignificant activity  
43.16 under this part, all material usage activities at the stationary source must be included in  
43.17 the limits under subpart 2. If lead is a component of any material usage activity at the  
43.18 stationary source, this part does not apply.

43.19 Subp. 2. **Material usage limits.** The owner or operator must ~~meet the limits in items~~  
43.20 ~~A to C for~~ limit emissions from all material usage as provided in items A and B at the  
43.21 stationary source to qualify as a conditionally insignificant activity under this part.

43.22 A. VOCs. The owner or operator must limit VOC emissions ~~of VOCs from all~~  
43.23 ~~material usage activities at the stationary source to less than 200 gallons or 2,000 pounds,~~  
43.24 or VOC usage to less than 200 gallons, in each calendar year period calculated according  
43.25 to the method in subpart 4. All VOC emissions from all material usage activities at the

44.1 stationary source must be accounted for in the annual calculation. This limit applies  
44.2 regardless of the hazardous air pollutant content of the VOC.

44.3 ~~B. The owner or operator must limit emissions of all hazardous air pollutants~~  
44.4 ~~from all material usage activities at the stationary source to less than 200 gallons or 2,000~~  
44.5 ~~pounds in each calendar year period calculated according to the method in subpart 5. All~~  
44.6 ~~hazardous air pollutant emissions from all material usage activities at the stationary source~~  
44.7 ~~must be accounted for in the annual calculation.~~

44.8 ~~C. Particulate matter.~~ The owner or operator must limit emissions of particulate  
44.9 matter, PM-10, and PM-2.5 to less than ~~2,000~~ 8,000 pounds each in each calendar year  
44.10 period calculated according to the method in subpart ~~6~~ 5. All particulate matter, PM-10,  
44.11 and PM-2.5 emissions from all material usage activities at the stationary source must be  
44.12 accounted for in the annual calculation. This limit applies regardless of the hazardous air  
44.13 pollutant content of the particulate matter.

44.14 Subp. 3. **Record keeping.** The owner or operator of a stationary source claiming  
44.15 material usage as a conditionally insignificant activity must:

44.16 A. maintain records for each calendar year of the number of gallons of  
44.17 VOC-containing materials purchased or used and the maximum VOC content of each  
44.18 material;

44.19 ~~B. maintain records for each calendar year of the number of gallons of~~  
44.20 ~~hazardous air pollutant-containing materials purchased or used and the maximum~~  
44.21 ~~hazardous air pollutant content of each material;~~

44.22 ~~C.~~ B. maintain records for each calendar year of the number of gallons of  
44.23 solids-containing materials purchased or used and the maximum solids content of each  
44.24 material;

45.1 ~~D. C.~~ maintain a record of the material safety data sheet (MSDS), or a signed  
45.2 statement from the supplier stating the maximum VOC content, ~~the maximum hazardous~~  
45.3 ~~air pollutant content~~, and the maximum solids content for each material;

45.4 ~~E. D.~~ if the owner or operator ships waste material from material usage  
45.5 activities off-site for recycling, keep records of the amount of material shipped off-site  
45.6 for recycling, the VOC content ~~and hazardous air pollutant content of the waste materials~~  
45.7 shipped off-site for recycling, and the calculations done to determine the amount of VOC  
45.8 ~~and hazardous air pollutants~~ to subtract. Acceptable records include: the material safety  
45.9 data sheets, invoices, shipping papers, and/or hazardous waste manifests;

45.10 ~~F. E.~~ if a material usage activity includes spray application of material and  
45.11 the owner or operator chooses to apply the transfer efficiency in calculations, maintain  
45.12 information on the type of spray application equipment and transfer efficiency; and

45.13 ~~G. F.~~ if requested by the commissioner, calculate and record for any of the  
45.14 previous five calendar years:

45.15 (1) the VOC emissions using the method in subpart 4;

45.16 (2) ~~the hazardous air pollutant emissions using the method in subpart 5;~~

45.17 (3) the particulate matter, PM-10, and PM-2.5 emissions using the method  
45.18 in subpart ~~6~~ 5;

45.19 (4) ~~(3)~~ the calculation used to arrive at the total for each of subitems (1)  
45.20 ~~to (3) and (2);~~ and

45.21 (5) ~~(4)~~ a list of the associated emissions units in which the material was used.

45.22 Subp. 4. **Calculating VOC emissions.** An owner or operator claiming material  
45.23 usage as a conditionally insignificant activity must calculate VOC emissions using one of  
45.24 the methods in item A or B. If the owner or operator ships waste material from material

46.1 usage activities off-site for recycling, the amount of VOC recycled may be subtracted  
46.2 from the amount of VOC calculated in item A or B:

46.3           A. gallons of VOC per calendar year equal gallons of VOC-containing material  
46.4 multiplied by the volume percentage of VOC; or

46.5           B. pounds of VOC per calendar year equal gallons of VOC-containing material  
46.6 purchased or used in a calendar year multiplied by the pounds of VOC per gallon or  
46.7 pounds of VOC-containing material purchased or used in a calendar year multiplied by  
46.8 weight percent of VOC.

46.9           ~~Subp. 5. Calculating total hazardous air pollutant emissions. An owner or~~  
46.10 ~~operator claiming material usage as a conditionally insignificant activity must calculate~~  
46.11 ~~total hazardous air pollutant emissions using one of the methods in item A or B. If~~  
46.12 ~~the owner or operator ships waste materials from material usage activities off-site for~~  
46.13 ~~recycling, the amount of hazardous air pollutants recycled may be subtracted from the~~  
46.14 ~~amount of total hazardous air pollutant calculated in item A or B:~~

46.15           ~~A. gallons of hazardous air pollutants per calendar year equal gallons of~~  
46.16 ~~hazardous air pollutant-containing material purchased or used in a calendar year multiplied~~  
46.17 ~~by the volume percentage of hazardous air pollutants; or~~

46.18           ~~B. pounds of hazardous air pollutants per calendar year equal gallons of~~  
46.19 ~~hazardous air pollutant-containing material purchased or used in a calendar year~~  
46.20 ~~multiplied by the pounds of hazardous air pollutants per gallon or pounds of hazardous~~  
46.21 ~~air pollutant-containing material purchased or used in a calendar year multiplied by the~~  
46.22 ~~weight percent of hazardous air pollutants.~~

46.23           Subp. 6 5. **Calculating particulate matter, PM-10, and PM-2.5 emissions.** An  
46.24 owner or operator claiming material usage as a conditionally insignificant activity must  
46.25 calculate particulate matter, PM-10, and PM-2.5 emissions individually using one of the  
46.26 methods in item A or B:

47.1 A. pounds of particulate matter, PM-10, and PM-2.5 emissions per calendar  
47.2 year equal gallons of solids-containing material purchased or used in a calendar year  
47.3 multiplied by the pounds of solids per gallon; or

47.4 B. pounds of particulate matter, PM-10, and PM-2.5 emissions per calendar  
47.5 year equal pounds of solids-containing material purchased or used in a calendar year  
47.6 multiplied by weight percent of solids per gallon.

47.7 For material usage activities that involve spray application of materials, the owner  
47.8 or operator may apply a transfer efficiency in the calculation of particulate matter,  
47.9 PM-10, and PM-2.5 emissions by multiplying the result determined by item A or B by  
47.10 (1 - transfer efficiency).

47.11 **7008.4110 CONDITIONALLY INSIGNIFICANT FINISHING PM AND PM-10**  
47.12 **EMITTING OPERATIONS THAT EMIT ONLY PM, PM-10, AND PM-2.5.**

47.13 Subpart 1. **Applicability.** This part applies to ~~any~~ a stationary source claiming  
47.14 particulate matter (PM) or particulate matter of less than ten microns (PM10) venting  
47.15 equipment as a conditionally insignificant activity.

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

47.17 Subp. 3. **Monitoring and record keeping.** ~~An owner or operator of A stationary~~  
47.18 ~~source claiming finishing operations that emit PM, or PM-10, or PM-2.5~~ venting  
47.19 equipment as a conditionally insignificant activity must:

47.20 A. operate the air cleaning system as required by the manufacturer's  
47.21 specification and part 7008.0200, item D;

47.22 B. inspect the air cleaning system as required by the manufacturer's specification;

47.23 C. maintain the air cleaning system according to the manufacturer's  
47.24 specification; and

D. maintain a record of inspection, maintenance, and repair activities for the air cleaning system for at least five years.

**7009.0010 DEFINITIONS.**

Subpart 1. **Scope.** For the purpose of parts 7009.0010 to 7009.0080, the following terms have the meanings given them.

Subp. 1a. **Averaging time.** "Averaging time" means the time period specified in part 7009.0080 over which air pollution concentration data are averaged in preparation for comparison to the ambient air quality standard. ~~The average is calculated by summing all data points for the time period and dividing by the number of data points.~~

Subp. 1b. **Form of the standard.** "Form of the standard" means the method used to determine whether ambient air quality pollutant concentrations exceed the numeric level of the applicable primary or secondary ambient air quality standard.

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

Subp. 4. **Total suspended particulate.** "Total suspended particulate" has the meaning given in Code of Federal Regulations, title 40, section 51.100 (ss), as amended.

**7009.0020 PROHIBITED EMISSIONS.**

No person shall emit any pollutant in such an amount or in such a manner as to cause or contribute to a violation of any Minnesota ambient air quality standard under part 7009.0080 beyond the person's property line, provided however, that in the event the general public has access to the person's property or portion thereof, the ambient air quality standards apply in those locations. The general public does not include employees or other categories of people who have been directly authorized by the property owner to enter or remain on the property for a limited period of time and for a specific purpose.

**7009.0080 MINNESOTA AMBIENT AIR QUALITY STANDARDS.**

The following table contains the state ambient air quality standards.



49.1		Level of	Level of		Form of the
49.2		Primary	Secondary		
49.3	Air Pollutant	Standard	Standard	Averaging Time	Standard
49.4	Hydrogen	0.05 ppm by volume (70.0 micrograms per cubic meter)		30-minutes	30-minute average not to be exceeded more than two times in a year
49.5	Sulfide				
49.6					
49.7					
49.8		0.03 ppm by volume (42.0 micrograms per cubic meter)		30-minutes	30-minute average not to be exceeded more than two times in 5 consecutive days
49.9					
49.10					
49.11					
49.12					
49.13	Ozone	<del>75</del> <u>70</u> ppb by volume ( <del>150</del> <u>137</u> micrograms per cubic meter)	Same as primary 8-hour standard		3-year average of the annual fourth high daily maximum 8-hour concentration does not exceed standard
49.14					
49.15					
49.16					
49.17					
49.18					
49.19	Carbon	9 ppm by volume (10 milligrams per cubic meter)		8-hour	Annual second-high 8-hour concentration does not exceed standard
49.20	Monoxide				
49.21					
49.22					
49.23		35 ppm by volume (40 milligrams per cubic meter)		1-hour	Annual second-high 1-hour concentration does not exceed standard
49.24					
49.25					
49.26					
49.27	Sulfur Dioxide	30 ppb by volume ( <del>80</del> <u>79</u> micrograms per cubic meter)		Annual average	Annual average concentration does not exceed standard
49.28					
49.29					
49.30					

50.1		140 ppb ( <del>365</del>		24-hour	Annual second-high
50.2		<u>367</u> micrograms			24-hour
50.3		per cubic meter)			concentration does
50.4					not exceed standard
50.5			500 ppb	3-hour	Annual
50.6			by volume		second-high 3-hour
50.7			( <del>1,300</del> <u>1,310</u>		concentration does
50.8			micrograms per		not exceed the
50.9			cubic meter)		standard
50.10		75 ppb ( <del>196</del> <u>197</u>		1-hour	3-year average
50.11		micrograms per			of the annual
50.12		cubic meter)			99th-percentile
50.13					of daily
50.14					maximum 1-hour
50.15					concentrations does
50.16					not exceed standard
50.17	Total Suspended	75 micrograms	60 micrograms	Annual average	Annual <del>average</del>
50.18	Particulate	per cubic meter	per cubic meter		<u>geometric mean</u>
50.19					concentration does
50.20					not exceed standard
50.21		260 micrograms	150 micrograms	24-hour	Annual second-high
50.22		per cubic meter	per cubic meter		24-hour
50.23					concentration does
50.24					not exceed standard
50.25	Nitrogen	53 ppb by	Same as primary	Annual average	Annual average
50.26	Dioxide	volume (100	standard		concentration does
50.27		micrograms per			not exceed standard
50.28		cubic meter)			

51.1		100 ppb by		1-hour	3-year average
51.2		volume (188			of the annual
51.3		micrograms per			98th-percentile
51.4		cubic meter)			of daily
51.5					maximum 1-hour
51.6					concentrations does
51.7					not exceed standard
51.8	Lead	0.15	Same as primary	Rolling 3-month	Maximum 3-month
51.9		micrograms per	standard	average	rolling average
51.10		cubic meter			from 3 consecutive
51.11					years does not
51.12					exceed the standard
51.13	PM-10	150 micrograms	Same as primary	24-hour	3-year average
51.14		per cubic meter	standard		of the annual
51.15					estimated
51.16					exceedance days
51.17					is less than or equal
51.18					to 1
51.19	PM-2.5	35 micrograms	Same as primary	24-hour	3-year average
51.20		per cubic meter	standard		of the annual
51.21					98th-percentile
51.22					of 24-hour
51.23					concentrations does
51.24					not exceed the
51.25					standard
51.26		12.0	15.0	Annual average	3-year average
51.27		micrograms per	micrograms per		of the annual
51.28		cubic meter	cubic meter		<del>quarterly-</del>
51.29					<u>seasonally-</u>
51.30					weighted average
51.31					does not exceed the
51.32					standard

52.1 **7009.0090 NATIONAL AMBIENT AIR QUALITY STANDARDS.**

52.2 The following national ambient air quality standards, established pursuant to section  
 52.3 109 of the Clean Air Act, are adopted and incorporated by reference: Interpretation of the  
 52.4 standards and measurements made to determine compliance with these standards must be  
 52.5 performed as specified in part 7009.0050:

52.6 A. sulfur dioxide (SO<sub>2</sub>), Code of Federal Regulations, title 40, sections ~~50.4(b)~~  
 52.7 ~~and 50.5(a)~~ 50.4, 50.5, and 50.17, as amended;

52.8 B. PM-10, Code of Federal Regulations, title 40, section ~~50.6(a)~~ 50.6, as  
 52.9 amended;

52.10 C. PM-2.5, Code of Federal Regulations, title 40, section ~~50.7(a)~~ sections 50.13  
 52.11 and 50.18, as amended;

52.12 D. carbon monoxide (CO), Code of Federal Regulations, title 40, section  
 52.13 ~~50.8(a)(1) and (2)~~ 50.8, as amended;

52.14 E. ozone (O<sub>3</sub>), Code of Federal Regulations, title 40, sections ~~50.9(a) and 50.10~~  
 52.15 ~~(a)~~ 50.9 and 50.19, as amended;

52.16 F. nitrogen dioxide (NO<sub>2</sub>), Code of Federal Regulations, title 40, section ~~50.11~~  
 52.17 ~~(a) and (b)~~ 50.11, as amended; and

52.18 G. lead (Pb), Code of Federal Regulations, title 40, section ~~50.12~~ 50.16, as  
 52.19 amended.

52.20 **7009.1060 TABLE 1.**

52.21					Significant
52.22		Alert	Warning	Emergency	Harm
52.23	SO <sub>2</sub>	300 ppb	600 ppb	800 ppb	1000 ppb
52.24	24 hr. avg.	800 µg/m <sup>3</sup>	1600 µg/m <sup>3</sup>	2100 µg/m <sup>3</sup>	2620 µg/m <sup>3</sup>
52.25	PM-10 24 hr. avg.	350 µg/m <sup>3</sup>	420 µg/m <sup>3</sup>	500 µg/m <sup>3</sup>	600 µg/m <sup>3</sup>

53.1	CO	15 ppm	30 ppm	40 ppm	50 ppm
53.2	8 hr. avg.	17 mg/m <sup>3</sup>	34 mg/m <sup>3</sup>	46 mg/m <sup>3</sup>	57.5 mg/m <sup>3</sup>
53.3	4 hr. avg.				86.3 mg/m <sup>3</sup>
53.4					75 ppm
53.5	1 hr. avg.				144 mg/m <sup>3</sup>
53.6					125 ppm
53.7	NO <sub>2</sub>	150 ppb	300 ppb	400 ppb	500 ppb
53.8	24 hr. avg.	282 µg/m <sup>3</sup>	565 µg/m <sup>3</sup>	750 µg/m <sup>3</sup>	938 µg/m <sup>3</sup>
53.9	NO <sub>2</sub>	600 ppb	1200 ppb	1600 ppb	2000 ppb
53.10	1 hr. avg.	1130 µg/m <sup>3</sup>	2260 µg/m <sup>3</sup>	3000 µg/m <sup>3</sup>	3750 µg/m <sup>3</sup>
53.11	Ozone	200 ppb	400 ppb	500 ppb	600 ppb
53.12	2 hr. avg.	400 µg/m <sup>3</sup>	800 µg/m <sup>3</sup>	1000 µg/m <sup>3</sup>	1200 µg/m <sup>3</sup>

53.13 **7011.0065 APPLICABILITY.**

53.14 Subpart 1. **Applicability.** The owner or operator of a stationary source ~~shall~~ must  
53.15 comply with parts 7011.0060 to 7011.0080 if the owner or operator elected to use the  
53.16 control equipment efficiencies for listed control equipment established pursuant to part  
53.17 7011.0070 to calculate potential to emit, from emissions units that discharge through  
53.18 the listed control equipment, to:

53.19 [For text of items A to C, see M.R.]

53.20 D. qualify for registration permit option D under part 7007.1130;

53.21 E. qualify for a capped permit under parts 7007.1140 to 7007.1148; or

53.22 F. determine that a change triggers the notification requirement under part  
53.23 7007.1150, item C, subitem (3).

53.24 Subp. 2. [Repealed, 32 SR 904]

54.1 **7011.0070 LISTED CONTROL EQUIPMENT AND CONTROL EQUIPMENT**  
 54.2 **EFFICIENCIES.**

54.3 [For text of subp 1, see M.R.]

54.4 Subp. 1a. **Exceptions where control efficiency disallowed.** The owner or operator  
 54.5 may not use a control efficiency listed in Table A if:

54.6 A. the commissioner determines that the listed efficiency is inapplicable  
 54.7 or is not representative of the source due to complexity of the process or source of  
 54.8 emissions, lack of reliable data, presence of a pollutant or constituent such as organic or  
 54.9 inorganic condensable particulate matter or an organic compound significantly more  
 54.10 difficult to control than the overall VOC gas stream that makes the categorical efficiency  
 54.11 nonrepresentative, or other site-specific conditions; or

54.12 B. the commissioner determines that alternate site-specific requirements are  
 54.13 necessary to ensure compliance with applicable requirements or to protect human health  
 54.14 or the environment.

54.15 CONTROL EQUIPMENT EFFICIENCY - TABLE A

54.16	ID#	CONTROL EQUIPMENT	POLLUTANT	CONTROL EFFICIENCY		
54.17		DESCRIPTION				
54.18				TOTAL	HOOD:	HOOD:
54.19				ENCLO-	CERTI-	NOT
54.20				SURE	FIED	CERTIFIED

54.21 Table A - Section 1 - Equipment Designed Primarily for Particulate Matter Control

55.1	PM CONTROL					
55.2	CATEGORY-CYCLONES					
55.3	means a device where airflow					
55.4	is forced to spin in a vortex					
55.5	through a tube					
55.6	007	Centrifugal Collector	PM	90%	72%	54%
55.7		(cyclone)-high efficiency	PM-10	78%	62%	46%
55.8	means: a cyclonic device with					
55.9	parameters stated in drawing 1					
55.10	and table 1					
55.11	008	Centrifugal Collector	PM	80%	64%	48%
55.12		(cyclone)-medium efficiency	PM-10	60%	48%	36%
55.13	means: a cyclonic device with					
55.14	parameters stated in drawing 1					
55.15	and table 1					
55.16	009	Centrifugal Collector	PM	25%	20%	15%
55.17		(cyclone)-low efficiency	PM-10	25%	20%	15%
55.18	means: a cyclonic device with					
55.19	parameters stated in drawing 1					
55.20	and table 1					
55.21	076	Multiple Cyclone without	PM	90%	72%	54%
55.22		Fly Ash Reinjection means:	PM-10	72%	58%	43%
55.23	a cyclonic device with more					
55.24	than one tube where fly ash is					
55.25	not reinjected					
55.26	057,	Wet Cyclone Separator or	PM,	84%	68%	51%
55.27	085	Cyclonic Scrubbers means:	PM-10			
55.28	a cyclonic device that sprays					
55.29	water into a cyclone					
55.30	010,	PM CONTROL CATEGORY-				
55.31	011,	ELECTROSTATIC				
55.32	012,	PRECIPITATORS means:				
55.33	146	a control device in which the				
55.34		incoming particulate matter				
55.35		receives an electrical charge				
55.36		and is then collected on a				
55.37		surface with the opposite				
55.38		electrical charge				

56.1	-assumed efficiency for boiler	PM-10	40%	NA	NA
56.2	fly ash control				
56.3	-assumed efficiency for other	PM	98%	78%	59%
56.4	applications	PM-10	94%	75%	56%
56.5	PM CONTROL CATEGORY				
56.6	- OTHER CONTROLS				
56.7	016, Fabric Filter means: a control	PM	99%	79%	59%
56.8	017, device in which the incoming	PM-10	93%	74%	56%
56.9	018 gas stream passes through a				
56.10	porous fabric filter forming a				
56.11	dust cake				
56.12	052 Spray Tower means: a control	PM	85%	68%	51%
56.13	device in which the incoming	PM-10	84%	68%	51%
56.14	gas stream passes through a				
56.15	chamber in which it contacts				
56.16	a liquid spray				
56.17	053 Venturi Scrubber means: a	PM	94%	76%	57%
56.18	control device in which the	PM-10	84%	68%	51%
56.19	incoming gas stream passes				
56.20	through a venturi into which				
56.21	a low pressure liquid is				
56.22	introduced				
56.23	055 Impingement Plate Scrubber	PM	77%	62%	46%
56.24	means: a control device in	PM-10	77%	62%	46%
56.25	which the incoming gas stream				
56.26	passes a liquid spray and is				
56.27	then directed at high velocity				
56.28	into a plate				
56.29	056, Mechanically Aided Separator	PM	64%	52%	39%
56.30	113 means: a device that relies on	PM-10	5%	4%	3%
56.31	inertia for separating particles				
56.32	from a gas stream				



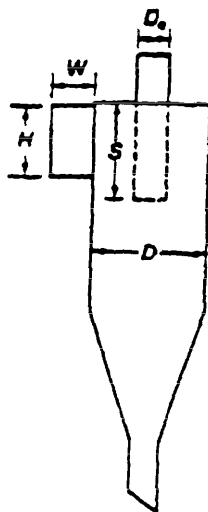
57.1	058,	Wall or Panel Filter means:	PM	85%	68%	51%
57.2	086	a control device in which	PM-10	85%	68%	51%
57.3		the exiting gas stream passes				
57.4		through a panel of coarse				
57.5		fibers. Other Wall Filters				
57.6		means removable panels for				
57.7		cleaning and replacement, or				
57.8		liquid curtains for particulate				
57.9		removal that provide little				
57.10		resistance to air flow				
57.11	101	HEPA Filter or ULPA Filter	PM	99.98%	80%	60%
57.12		means: a high efficiency	PM-10	99.98%	80%	60%
57.13		wall or panel filter designed				
57.14		for collection of submicron				
57.15		particles				
57.16	503	Charged Scrubber means:	PM	94%	76%	57%
57.17		a control device in which	PM-10	84%	68%	51%
57.18		electric power is used to				
57.19		precharge particulate matter				
57.20		in the gas stream as a means				
57.21		of increasing the scrubber's				
57.22		collection efficiency for fine				
57.23		particles				
57.24	517	Condensation Scrubber	PM	94%	76%	57%
57.25		means: a control device in	PM-10	84%	68%	51%
57.26		which steam is injected into				
57.27		a wet scrubber to create				
57.28		supersaturated conditions and				
57.29		promote condensation of water				
57.30		on fine particulate matter in				
57.31		the gas stream				

57.32 Table A - Section 2 - Equipment Designed for VOC Control (includes efficiencies for  
57.33 pollutants where there is a co-benefit of control)

57.34 VOC CONTROL  
57.35 CATEGORY

58.1	019, Catalytic Afterburners	VOC	94%	76%	57%
58.2	020, (catalytic oxidation) means: a	PM	62%	50%	37%
58.3	109 device used to reduce VOCs	PM-10	62%	50%	38%
58.4	to the products of combustion	CO	94%	76%	57%
58.5	through catalytic (use of				
58.6	a catalyst) oxidation in a				
58.7	combustion chamber				
58.8	021, Thermal Afterburners (thermal	VOC	97%	78%	58%
58.9	022, oxidation) means: a device	PM	62%	50%	37%
58.10	131, used to reduce VOCs to the	PM-10	62%	50%	37%
58.11	133 products of combustion	CO	97%	78%	58%
58.12	through thermal (high				
58.13	temperature) oxidation in				
58.14	a combustion chamber				
58.15	023 Flaring or Direct Combustor	VOC	98%	79%	59%
58.16	means: a device in which air,	PM	61%	50%	37%
58.17	combustible organic waste	PM-10	61%	50%	37%
58.18	gases, and supplementary fuel	CO	98%	79%	59%
58.19	(if needed) react in the flame				
58.20	zone (e.g., at the flare tip) to				
58.21	destroy the VOCs				

Drawing 1




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SOURCE: Lapple, 1951.

59.1	Table 1			
59.2	Cyclone Type			
59.3	Ratio Dimensions	High Efficiency	Medium Efficiency	Low Efficiency
59.4	Height of inlet,			
59.5	H/D	$\leq 0.44$	$>0.44$ and $<0.8$	$\geq 0.8$
59.6	Width of inlet,			
59.7	W/D	$\leq 0.2$	$>0.2$ and $<0.375$	$\geq 0.375$
59.8	Diameter of gas			
59.9	exit, $D_e/D$	$\leq 0.4$	$>0.4$ and $<0.75$	$\geq 0.75$
59.10	Length of vortex			
59.11	finder, S/D	$\leq 0.5$	$>0.5$ and $<0.875$	$\geq 0.875$

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

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

59.15 **7011.0080 MONITORING AND RECORD KEEPING FOR LISTED CONTROL**  
 59.16 **EQUIPMENT.**

59.17 The owner or operator of a stationary source ~~shall~~ must comply with the monitoring  
 59.18 and record keeping required for listed control equipment by the table in this part. The  
 59.19 owner or operator shall maintain the records required by this part for a minimum of five  
 59.20 years from the date the record was made. Unless a specific format is required, the records  
 59.21 may be maintained in either electronic or paper format. For certified hoods, the owner or  
 59.22 operator shall comply with part 7011.0072.

59.23	Identification	Pollution Control	Monitoring	Record-keeping
59.24	Number(s)	Equipment Type	Parameter(s)	Requirement

59.25 A. Equipment designed for particulate matter control

59.26	007, 008, 009,	Centrifugal collector	Pressure drop	Record pressure drop
59.27	076,	(cyclone)		every 24 hours if in
59.28				operation

60.1	010, 011, 012, 146	Electrostatic precipitator	Voltage, secondary current, and, if used, conditioning agent flow rate	Continuous readout of voltage, and secondary current. If used, daily record of conditioning agent flow rate
60.2				
60.3				
60.4				
60.5				
60.6	016, 017	Fabric filter (bag house), high temperature (T>250°F), medium temperature (180°F> T<250°F)	Pressure drop	Record pressure drop every 24 hours if in operation
60.7				
60.8				
60.9				
60.10				
60.11				
60.12	018	Fabric filter (bag house), low temperature (T<180°F)	Pressure drop or visible emissions observation from filter outlet during an entire cleaning cycle, unless the commissioner specifies pressure drop and/or visible emissions as the indicator(s) of fabric filter performance	Record pressure drop every 24 hours if in operation, or Record whether any visible emissions are observed and the time period of observation every 24 hours if in operation; or record both if the commissioner requires monitoring of both parameters
60.13				
60.14				
60.15				
60.16				
60.17				
60.18				
60.19				
60.20				
60.21				
60.22				
60.23				
60.24	052	Spray tower	Liquid flow rate and pressure drop	Record each parameter every 24 hours if in operation
60.25				
60.26				
60.27	053, 055	Venturi scrubber, impingement plate scrubber	Pressure drop and liquid flow rate	Record each parameter every 24 hours if in operation
60.28				
60.29				
60.30	056, 113	Mechanically aided separator	Pressure drop	Record every 24 hours if in operation
60.31				

61.1	058, 101	HEPA and other wall	Condition of the filters,	Record of filter(s)
61.2		filters	including, but not	condition every 24
61.3			limited to, alignment,	hours if in operation
61.4			saturation, and tears	
61.5			and holes	
61.6	057, 085	Wet cyclone separator	Pressure drop; and	Record each parameter
61.7			water pressure	every 24 hours if in
61.8				operation
61.9	503	Charged scrubber	Pressure drop and	Record each parameter
61.10			liquid flow rate	every 24 hours if in
61.11				operation
61.12	517	Condensation scrubber	Pressure drop and	Record each parameter
61.13			either steam supply	every 24 hours if in
61.14			rate or blowdown rate	operation
61.15	B. Equipment designed for volatile organic compound control			
61.16	021, 022, 131,	Thermal afterburner	Combustion	Record temperatures
61.17	133		temperature or inlet	at least once every 15
61.18			and outlet temperatures	minutes
61.19	019, 020, 109	Catalytic afterburner	Inlet and outlet	Record temperatures
61.20			temperatures; and	or manual readings at
61.21			catalyst bed reactivity	least once every 15
61.22			as per manufacturer's	minutes; and record
61.23			specifications	results of catalyst bed
61.24				reactivity
61.25	023	Flaring	Temperature indicating	Record temperatures
61.26			presence of a flame	at least once every 15
61.27				minutes

61.28 **7011.0510 STANDARDS OF PERFORMANCE FOR EXISTING INDIRECT**  
61.29 **HEATING EQUIPMENT.**

61.30 Subpart 1. **Particulate matter and sulfur dioxide.** No owner or operator of existing  
61.31 indirect heating equipment shall cause to be discharged into the atmosphere from said

62.1 equipment any gases that contain filterable particulate matter or sulfur dioxide in excess of  
62.2 the standards of performance shown in part 7011.0545.

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

62.4 **7011.0515 STANDARDS OF PERFORMANCE FOR NEW INDIRECT HEATING**  
62.5 **EQUIPMENT.**

62.6 Subpart 1. **Particulate matter, sulfur dioxide, and nitrogen oxides.** No owner or  
62.7 operator of new indirect heating equipment shall cause to be discharged into the atmosphere  
62.8 from said equipment any gases that contain filterable particulate matter, sulfur dioxide, or  
62.9 nitrogen oxides in excess of the standards of performance shown in part 7011.0550.

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

62.11 **7011.0530 PERFORMANCE TEST METHODS.**

62.12 Unless another method is approved by the commissioner, any person required to  
62.13 submit performance tests for indirect heating equipment must use the following test  
62.14 methods to demonstrate compliance:

62.15 A. Method 1 for selection of sampling site and sample traverses;

62.16 B. Method 3 for gas analysis;

62.17 C. Method 5 for concentration of filterable particulate matter and the associated  
62.18 moisture content;

62.19 D. Method 6 for concentration of SO<sub>2</sub>;

62.20 E. Method 7 for concentration of NO<sub>x</sub>; and

62.21 F. Method 9 for visual determination of opacity.

62.22 **7011.0535 PERFORMANCE TEST PROCEDURES.**

62.23 [For text of subps 1 and 2, see M.R.]

63.1 Subp. 3. **Method 5.** For Method 5, the sampling time for each run ~~shall~~ must be at  
63.2 least 60 minutes and the minimum sampling volume shall be 0.85 dscm (30 dscf) except  
63.3 that smaller sampling times or volumes, when necessitated by process variables or other  
63.4 factors, may be approved by the agency.

63.5 [For text of subps 4 to 9, see M.R.]

63.6 **7011.0610 STANDARDS OF PERFORMANCE FOR FOSSIL-FUEL-BURNING**  
63.7 **DIRECT HEATING EQUIPMENT.**

63.8 Subpart 1. **Particulate matter limitations.**

63.9 A. No owner or operator of any direct heating equipment shall cause to be  
63.10 discharged into the atmosphere from the direct heating equipment any gases that:

63.11 (1) contain the sum of filterable and organic condensable particulate matter  
63.12 in excess of the limits allowed by parts 7011.0700 to 7011.0735; or

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

63.14 [For text of item B, see M.R.]

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

63.16 **7011.0615 PERFORMANCE TEST METHODS.**

63.17 Unless another method is approved by the agency, any person required to submit  
63.18 performance tests for direct heating equipment must use the following test methods to  
63.19 demonstrate compliance:

63.20 A. Method 1 for selection of sampling site and sample traverses;

63.21 B. Method 3 for gas analysis;

63.22 C. Method 5 for concentration of filterable particulate matter and the associated  
63.23 moisture content and Method 202 for concentration of organic condensable particulate  
63.24 matter;

64.1 D. Method 6 for concentration of SO<sub>2</sub>; and

64.2 E. Method 9 for visual determination of opacity.

64.3 **7011.0620 PERFORMANCE TEST PROCEDURES.**

64.4 [For text of subps 1 and 2, see M.R.]

64.5 Subp. 3. **Sampling time for Methods 5 and 202.** For Methods 5 and 202, the  
64.6 sampling time for each run must be at least 60 minutes and the minimum sampling  
64.7 volume must be 0.85 dscm (30 dscf) except that owners or operators may, prior to testing,  
64.8 request approval from the commissioner for smaller sampling times or volumes, when  
64.9 necessitated by process variables or site-specific limitations.

64.10 [For text of subps 4 to 6, see M.R.]

64.11 **7011.0710 STANDARDS OF PERFORMANCE FOR PRE-1969 INDUSTRIAL**  
64.12 **PROCESS EQUIPMENT.**

64.13 Subpart 1. **Prohibited discharge of gases.** No owner or operator of any industrial  
64.14 process equipment that was in operation before July 9, 1969, shall cause to be discharged  
64.15 into the atmosphere from the industrial process equipment any gases that:

64.16 A. in any one hour contain the sum of filterable and organic condensable  
64.17 particulate matter in excess of the amount permitted in part 7011.0730 for the allocated  
64.18 process weight; provided that the owner or operator shall not be required to reduce the  
64.19 particulate matter emission below the concentration permitted in part 7011.0735 for the  
64.20 appropriate source gas volume; provided further that regardless of the mass emission  
64.21 permitted by part 7011.0730, the owner or operator shall not be permitted to emit the sum  
64.22 of filterable and organic condensable particulate matter in a concentration in excess of  
64.23 0.30 grains per standard cubic foot of exhaust gas; or

64.24 [For text of item B, see M.R.]

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



65.1 **7011.0715 STANDARDS OF PERFORMANCE FOR POST-1969 INDUSTRIAL**  
65.2 **PROCESS EQUIPMENT.**

65.3 Subpart 1. **Prohibited discharge of gases.** No owner or operator of any industrial  
65.4 process equipment that was not in operation before July 9, 1969, shall cause to be  
65.5 discharged into the atmosphere from the industrial process equipment any gases that:

65.6 A. in any one hour contain the sum of filterable and organic condensable  
65.7 particulate matter in excess of the amount permitted in part 7011.0730 for the allocated  
65.8 process weight; provided that the owner or operator shall not be required to reduce the  
65.9 particulate matter emission below the concentration permitted in part 7011.0735 for the  
65.10 appropriate source gas volume; provided that regardless of the mass emission permitted by  
65.11 part 7011.0730, the owner or operator shall not be permitted to emit the sum of filterable  
65.12 and organic condensable particulate matter in a concentration in excess of 0.30 grains  
65.13 per standard cubic foot of exhaust gas; or

65.14 B. exhibit greater than 20 percent opacity.

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

65.16 **7011.0720 PERFORMANCE TEST METHODS.**

65.17 Unless another method is approved by the agency, any owner or operator required  
65.18 to submit performance tests for any industrial process equipment must use the following  
65.19 test methods to demonstrate compliance:

65.20 A. Method 1 for sample and velocity traverses;

65.21 B. Method 2 for velocity and volumetric flow rate;

65.22 C. Method 3 for gas analysis;

65.23 D. Method 5 for the concentration of filterable particulate matter and associated  
65.24 moisture content and Method 202 for the concentration of organic ~~condensibles~~  
65.25 condensables; and

66.1 E. Method 9 for visual determination of the opacity of emissions from  
66.2 stationary sources.

66.3 **7011.0905 STANDARDS OF PERFORMANCE FOR EXISTING HOT MIX**  
66.4 **ASPHALT PLANTS.**

66.5 No owner or operator of an existing hot mix asphalt plant shall cause to be discharged  
66.6 into the atmosphere from the hot mix asphalt plant any gases that:

66.7 A. contain the sum of filterable and organic condensable particulate matter in  
66.8 excess of the limits allowed by parts 7011.0700 to 7011.0735; or

66.9 B. exhibit greater than 20 percent opacity.

66.10 **7011.1105 STANDARDS OF PERFORMANCE FOR CERTAIN COAL**  
66.11 **HANDLING FACILITIES.**

66.12 The owner or operator of any new coal handling facility, or an existing coal handling  
66.13 facility located within the Minneapolis-Saint Paul Air Quality Control Region or within  
66.14 the boundaries of the city of Duluth, ~~shall~~ must perform the following abatement measures  
66.15 unless otherwise exempt by portions of these parts:

66.16 [For text of items A to E, see M.R.]

66.17 F. Stockpiles, stockpile construction, and reclaiming.

66.18 (1) Control fugitive particulate emissions by dust suppression methods on  
66.19 such operations so that fugitive particulate emissions are minimized.

66.20 (2) In the alternative, use an underground bottom feed (plow) of coal to  
66.21 an underground conveyor system provided the exhaust gases from the enclosed spaces  
66.22 do not contain filterable particulate matter in excess of 0.020 grains per dry standard  
66.23 cubic foot (gr/dscf).

66.24 G. Enclosed coal handling facilities or emissions units not specifically covered  
66.25 by any other provision in parts 7011.1100 to 7011.1140. If exhaust gases from any

67.1 enclosed coal handling facility exceed 20 percent opacity, then the owner or operator of  
67.2 the facility must select and implement one of the following further controls:

67.3 (1) install exhaust air system and control exhaust gases so that filterable  
67.4 particulate emissions in such gases do not exceed 0.020 gr/dscf;

67.5 (2) control exhaust gases using dust suppression methods so that particulate  
67.6 emissions do not exhibit greater than 20 percent opacity.

67.7 [For text of items H and I, see M.R.]

67.8 **7011.1115 STANDARDS OF PERFORMANCE FOR PNEUMATIC**  
67.9 **COAL-CLEANING EQUIPMENT AND THERMAL DRYERS AT ANY COAL**  
67.10 **HANDLING FACILITY.**

67.11 Subpart 1. **Pneumatic coal-cleaning equipment.** The owner or operator of a coal  
67.12 handling facility shall not cause to be discharged into the atmosphere from any pneumatic  
67.13 coal-cleaning equipment any gases that:

67.14 A. contain filterable particulate matter in excess of 0.040 g/dscm (0.018  
67.15 gr/dscf); or

67.16 B. exhibit ten percent opacity or greater.

67.17 Subp. 2. **Thermal dryers.** The owner or operator of a coal handling facility shall not  
67.18 cause to be discharged into the atmosphere from any thermal dryer any gases that:

67.19 A. contain filterable particulate matter in excess of 0.070 g/dscm (0.031  
67.20 gr/dscf); or

67.21 B. exhibit 20 percent opacity or greater.

67.22 [For text of subps 3 and 4, see M.R.]

**7011.1130 PERFORMANCE TEST METHOD.**

Unless another method is approved by the commissioner, an owner or operator required to submit performance tests for coal handling facilities must use the following test methods to demonstrate compliance:

A. Method 1 for sample and velocity traverses;

B. Method 5 for the concentration of filterable particulate material and moisture content;

C. Method 9 for the visual determination of the opacity of emission from stationary sources.

**7011.1135 PERFORMANCE TEST PROCEDURES.**

Subpart 1. **In general.** Performance tests ~~shall~~ must be conducted according to the requirements of this part and parts 7017.2001 to 7017.2060.

Subp. 2. **Special procedures.** For Method 5, the sampling time for each run ~~shall~~ must be at least 60 minutes and the minimum sampling volume ~~shall~~ must be 0.85 dscm (30 dscf) except that owners or operators may, prior to testing, request approval from the commissioner for smaller sampling times or volumes, when necessitated by process variables or site-specific limitations. Sampling ~~shall~~ must not be started until at least 30 minutes after ~~start-up~~ start-up and ~~shall~~ must be terminated before shutdown procedures commence. The owner or operator ~~shall~~ must eliminate cyclonic flow during performance tests.

**7011.1227 TABLE 1.**

The table in this part governs emission limitations for Class A and C waste combustor units. For acid gas limitations, either the applicable percent reduction or the parts per million by volume emission limitation, whichever is less stringent, is the emission limitation for the waste combustor.

69.1		Class C	Class A
69.2	Particulate Matter		
69.3	Filterable		0.011 gr/dscf
69.4	The sum of filterable and organic	0.020 gr/dscf	0.020 gr/dscf
69.5	condensable		
69.6	PCDD/PCDF		
69.7	Total	500 ng/dscm	30 ng/dscm
69.8	Acid Gases:		
69.9	Hydrogen chloride	NA	95% control or 29 ppm
69.10	Sulfur dioxide	NA	75% control or 29 ppm
69.11	Carbon Monoxide		
69.12	Modular starved air	50 ppm	50 ppm
69.13	Modular excess air	50 ppm	50 ppm
69.14	Mass burn waterwall	100 ppm	100 ppm
69.15	Mass burn refractory	100 ppm	100 ppm
69.16	Mass burn rotary refractory	100 ppm	100 ppm
69.17	Mass burn rotary waterwall	250 ppm	250 ppm
69.18	Bubbling fluidized bed	100 ppm	100 ppm
69.19	Circulating fluidized bed	100 ppm	100 ppm
69.20	Pulverized coal/refuse-derived	NA	150 ppm
69.21	fuel mixed fuel-fired combustor		
69.22	Spreader stoker	NA	200 ppm
69.23	coal/refuse-derived fuel mixed		
69.24	fuel-fired combustor		
69.25	RDF stoker	150 ppm	200 ppm
69.26	Opacity	10%	10%
69.27	Mercury (short-term)		
69.28	For all waste combustors	100 µg/dscm or 85%	50 µg/dscm or 85%
69.29		removal	removal

70.1	Mercury (long-term)		
70.2	For all waste combustors except	60 µg/dscm or 85%	50 µg/dscm or 85%
70.3	those combusting RDF in	removal	removal
70.4	spreader stokers		
70.5	Waste combustor units	NA	30 µg/dscm or 85%
70.6	combusting RDF in spreader		removal
70.7	stokers (90-day test interval)		
70.8	Waste combustor units	NA	30 µg/dscm or 85%
70.9	combusting RDF in spreader		removal
70.10	stokers (12-month test interval)		
70.11	Cadmium	NA	35 µg/dscm
70.12	Lead	NA	400 µg/dscm

70.13 **7011.1229 TABLE 2.**

70.14 The table in this part governs emission limitations for a Class II waste combustor.  
 70.15 For acid gas limitations, either the applicable percent reduction or the parts per million  
 70.16 by volume emission limitation, whichever is less stringent, is the emission limitation  
 70.17 for the waste combustor.

70.18	Size	Class II
70.19	Particulate Matter	
70.20	Filterable	0.015 gr/dscf
70.21	The sum of filterable and organic	
70.22	condensable	0.020 gr/dscf
70.23	PCDD/PCDF	
70.24	(total)	30 ng/dscm
70.25	Acid Gases	
70.26	HCl	90% control or 25 ppm
70.27	SO <sub>2</sub>	80% control or 30 ppm
70.28	Carbon monoxide	
70.29	Modular	50 ppm

71.1	Mass burn or fluidized bed	100 ppm
71.2	RDF stoker	150 ppm
71.3	Opacity	10%
71.4	NO <sub>x</sub>	NA
71.5	Mercury (short-term)	
71.6	Modular	100 µg/dscm or 85% removal
71.7	Mass Burn	100 µg/dscm or 85% removal
71.8	RDF (90-day test interval)	50 µg/dscm or 85% removal
71.9	FBC	100 µg/dscm or 85% removal
71.10	Mercury (long-term)	
71.11	Modular	60 µg/dscm or 85% removal
71.12	Mass burn	60 µg/dscm or 85% removal
71.13	RDF (90-day test interval)	30 µg/dscm or 85% removal
71.14	FBC	60 µg/dscm or 85% removal
71.15	RDF (12-month test interval)	30 µg/dscm or 85% removal

71.16 **7011.1231 TABLE 3.**

71.17 The table in this part governs emission limitations for Class III waste combustors.

71.18	Size	Class III
71.19	Particulate Matter	
71.20	The sum of filterable and organic	0.020 gr/dscf
71.21	condensable	
71.22	PCDD/PCDF	
71.23	Total	60 ng/dscm
71.24	Carbon monoxide	
71.25	Modular	50 ppm
71.26	RDF	275 ppm
71.27	Opacity	10%
71.28	Mercury	

72.1	Short-term	500 µg/dscm or 85%
72.2		removal
72.3	Long-term	300 µg/dscm or 85%
72.4		removal

72.5 **7011.1233 TABLE 4.**

72.6 The table in this part governs emissions from Class IV waste combustors.

72.7	Use	Metal Recovery
72.8	Particulate Matter	
72.9	The sum of filterable and organic	
72.10	condensable	0.035 gr/dscf
72.11	Opacity	20%
72.12	Carbon Monoxide	50 ppm

72.13 **7011.1265 REQUIRED PERFORMANCE TESTS, METHODS, AND**  
 72.14 **PROCEDURES.**

72.15 [For text of subp 1, see M.R.]

72.16 Subp. 2. **Performance test methods for criteria pollutants.** An owner or operator  
 72.17 of a waste combustor required to conduct performance tests for particulate matter, sulfur  
 72.18 dioxide, or nitrogen oxides ~~shall~~ must use test methods as described in items A to D.

72.19 A. For particulate matter, except that for Class I, II, A, and C waste combustors,  
 72.20 the minimum sample volume ~~shall~~ must be 1.7 dscm, and the probe and filter holder  
 72.21 heating systems in the sample train ~~shall~~ must be set to provide a gas temperature no  
 72.22 greater than 160 degrees Celsius, plus or minus 14 degrees. For Class III and IV waste  
 72.23 combustors, the minimum sample volume ~~shall~~ must be 0.85 dscm. Owners or operators  
 72.24 may request approval for smaller sampling times or volumes from the commissioner prior  
 72.25 to testing, when necessitated by process variables or site-specific limitations. An oxygen  
 72.26 or carbon dioxide measurement ~~shall~~ must be obtained simultaneously with each Method



73.1 5 test run for particulate matter. Particulate matter emissions, expressed in gr/dscf, ~~shall~~  
73.2 must be corrected to seven percent oxygen by using the following formula:

$$\begin{array}{l} 73.3 \qquad \qquad \qquad 14c \\ 73.4 \qquad \qquad \qquad c_7 = \frac{\qquad \qquad \qquad}{\qquad \qquad \qquad} \\ 73.5 \qquad \qquad \qquad (21-\%O_2) \end{array}$$

73.6 where:  $c_7$  is the concentration of particulate matter corrected to seven percent oxygen;

73.7  $c$  is the concentration of particulate matter as measured by Code of Federal  
73.8 Regulations, title 40, part 60, Appendix A-3, Method 5 and Code of Federal Regulations,  
73.9 title 40, part 51, Appendix M, Method 202; and

73.10  $\%O_2$  is the percentage of oxygen as measured by Code of Federal Regulations, title  
73.11 40, part 60, Appendix A-2, Method 3, as amended.

73.12 (1) Filterable particulate matter emission is the concentration of particulate  
73.13 matter as measured by Code of Federal Regulations, title 40, part 60, Appendix A-3,  
73.14 Method 5, as amended.

73.15 (2) The sum of filterable and organic condensable particulate matter is the  
73.16 concentration of particulate matter as described in part 7017.2060, subpart 3, item B.

73.17 For each sample run employing Method 5 as provided in Appendix A-3 of Code of  
73.18 Federal Regulations, title 40, part 60, Appendix A-3, Method 5, as amended, run; the  
73.19 emission rate ~~shall~~ must be determined using:

73.20 (a) oxygen or carbon dioxide measurements;

73.21 (b) dry basis F factor; and

73.22 (c) dry basis emission rate calculation procedures in Code of Federal  
73.23 Regulations, title 40, part 60, Appendix A-7, Method 19, as amended.

73.24 [For text of items B to D, see M.R.]

73.25 [For text of subps 3 to 11, see M.R.]

74.1 **7011.1270 PERFORMANCE TEST, WASTE COMPOSITION STUDY, AND ASH**  
74.2 **SAMPLING FREQUENCY.**

74.3 The owner or operator of a waste combustor shall conduct the performance tests  
74.4 required in part 7011.1265, subpart 5, based on the schedules in items A to E.

74.5 A. Class A waste combustors shall conduct performance tests as described in  
74.6 subitems (1) to (6).

74.7 [For text of subitems (1) to (4), see M.R.]

74.8 (5) From Class A waste combustors that are not burning RDF, for mercury  
74.9 emissions every three months.

74.10 The facility may implement testing for mercury not less than once every 12 months  
74.11 under the following conditions: the facility has demonstrated that mercury emissions have  
74.12 been below 50 percent of the facility's permitted long-term limit for three consecutive  
74.13 years;~~and the owner or operator has submitted a request for an administrative amendment~~  
74.14 ~~according to the procedures of part 7007.1400.~~

74.15 Waste combustors combusting RDF may choose to conduct performance tests for  
74.16 mercury every 12 months. If a test shows that an emission limit for mercury from a waste  
74.17 combustor combusting RDF is exceeded, the commissioner shall require testing every  
74.18 three months thereafter until compliance with the standard is demonstrated.

74.19 (6) A waste composition study every five years.

74.20 B. Class II and C waste combustors shall conduct performance tests as  
74.21 described in subitems (1) to (4).

74.22 (1) Once within the normal start-up, except as provided in subitem (3)(b).

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

74.24 (3) For mercury emissions, Class C waste combustors shall commence  
74.25 testing June 20, 1995, and continue testing every 90 days until August 1, 1997. Thereafter,

75.1 Class C waste combustors that are not burning RDF shall conduct mercury emissions  
75.2 testing every three months.

75.3 The facility may implement testing for mercury not less than once every three years  
75.4 or according to federal applicable requirements, whichever is more stringent, under the  
75.5 following conditions: the facility has demonstrated that mercury emissions have been  
75.6 below 50 percent of the facility's permitted long-term limit for three consecutive years;  
75.7 ~~and the owner or operator has submitted a request for an administrative amendment~~  
75.8 ~~according to the procedures of part 7007.1400.~~

75.9 If a facility is granted testing for mercury not less than once every three years or  
75.10 according to federal applicable requirements, whichever is more stringent, and a mercury  
75.11 performance test shows mercury emissions greater than 50 percent of the facility's permitted  
75.12 mercury limit, the facility shall conduct annual mercury stack sampling until emissions are  
75.13 below 50 percent of the facility's permitted mercury limit. Once the facility demonstrates  
75.14 that mercury emissions are again below 50 percent of the facility's permitted limit, the  
75.15 facility may resume testing every three years, upon notifying the commissioner in writing.

75.16 Waste combustors combusting RDF may choose to conduct performance tests for  
75.17 mercury emissions every 12 months. If a test shows that emission limits for mercury  
75.18 from a waste combustor combusting RDF are exceeded, the commissioner shall require  
75.19 performance testing every three months until compliance is demonstrated.

75.20 (4) A waste composition study every five years.

75.21 C. Class III and D waste combustors shall conduct performance tests as  
75.22 described in subitems (1) to (6).

75.23 [For text of subitems (1) and (2), see M.R.]

75.24 (3) For Class III waste combustors, emissions of mercury, every three  
75.25 months.

76.1 The facility may implement testing for mercury not less than once every three years  
76.2 or according to federal applicable requirements, whichever is more stringent, under the  
76.3 following conditions: the facility has demonstrated that mercury emissions have been  
76.4 below 50 percent of the facility's permitted long-term limit for three consecutive years;  
76.5 ~~and the owner or operator has submitted a request for an administrative amendment~~  
76.6 ~~according to the procedures of part 7007.1400.~~

76.7 If a facility is granted testing for mercury not less than once every three years or  
76.8 according to federal applicable requirements, whichever is more stringent, and mercury  
76.9 performance test shows mercury emissions greater than 50 percent of the facility's permitted  
76.10 mercury limit, the facility shall conduct annual mercury stack sampling until emissions are  
76.11 below 50 percent of the facility's permitted mercury limit. Once the facility demonstrates  
76.12 that mercury emissions are again below 50 percent of the facility's permitted limit, the  
76.13 facility may resume testing every three years, upon notifying the commissioner in writing.

76.14 [For text of subitems (4) to (6), see M.R.]

76.15 [For text of item D, see M.R.]

76.16 E. Class I waste combustors shall conduct performance tests for mercury  
76.17 emissions every three months for waste combustors that are not burning RDF.

76.18 The facility may implement testing for mercury not less than once every 12 months  
76.19 under the following conditions: the facility has demonstrated that mercury emissions have  
76.20 been below 50 percent of the facility's permitted long-term limit for three consecutive  
76.21 years; ~~and the owner or operator has submitted a request for an administrative amendment~~  
76.22 ~~according to the procedures of part 7007.1400.~~

76.23 Waste combustors combusting RDF may choose to conduct performance tests for  
76.24 mercury every 12 months. If a test shows that an emission limit for mercury from a waste  
76.25 combusting RDF is exceeded, the commissioner shall require testing every three months  
76.26 thereafter until compliance with the standard is demonstrated.

77.1 Class I waste combustors shall conduct a waste composition study every five years.

77.2 **7011.1280 OPERATOR CERTIFICATION.**

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

77.4 Subp. 5. **Examinations.**

77.5 A. The commissioner must approve an examination for the different classes  
77.6 of waste combustors and must not delegate this responsibility. The examination must be  
77.7 administered as a written closed book examination.

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

77.9 [For text of subp 6, see M.R.]

77.10 Subp. 7. **Renewal.**

77.11 A. A certified individual shall apply for certificate renewal no later than 30  
77.12 days prior to certificate expiration. The application for renewal must include evidence  
77.13 that the person has, during the preceding three years, earned credit for attending training  
77.14 courses in the direct operation and maintenance of and environmental compliance for  
77.15 a waste combustor, including personnel training described in part 7011.1275, for the  
77.16 number of hours as identified as follows:

77.17 (1) Class I, II, III, A, or C, ~~or D~~, 24 hours; and

77.18 (2) Class IV, eight hours.

77.19 An individual whose certificate has expired must comply with item B or C to renew  
77.20 the certificate.

77.21 B. If an individual applies for certificate renewal within one year following  
77.22 the expiration of the certificate, ~~the commissioner may renew the certificate without~~  
77.23 ~~examination. To be recertified without an examination,~~ the individual must meet the  
77.24 training requirements of item A or subpart 3 at the time of application for renewal before

78.1 the certificate will be renewed without an examination. ~~If the individual does not have~~  
78.2 ~~training to meet the requirements of item A, the individual must comply with subpart 3.~~

78.3 C. If an individual applies for certificate renewal more than one year following  
78.4 the expiration of the certificate, the individual is eligible for recertification when the  
78.5 individual complies with subpart 3.

78.6 Subp. 8. [See repealer.]

78.7 [For text of subps 9 and 10, see M.R.]

78.8 Subp. 11. **Record keeping.** A waste combustor owner or operator shall maintain a  
78.9 record of personnel who complete either the Environmental Protection Agency municipal  
78.10 waste combustor operator training course, or an equivalent course. The record shall  
78.11 include documentation of training completion.

78.12 **7011.1282 CERTIFIED MUNICIPAL WASTE COMBUSTOR EXAMINER**  
78.13 **CERTIFICATE.**

78.14 [For text of subp 1, see M.R.]

78.15 Subp. 2. **Certification process for a certified municipal waste combustor**  
78.16 **examiner.**

78.17 A. When the commissioner determines that the applicant has submitted  
78.18 a complete application, and has determined that the applicant has demonstrated a  
78.19 satisfactory compliance history as an operator at a municipal waste combustor, the  
78.20 commissioner shall schedule an oral examination of the applicant.

78.21 [For text of item B, see M.R.]

78.22 Subp. 3. **Examination for certified municipal waste combustor examiner.**

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

79.1 C. The board of examiners consists of three members. The three members  
79.2 are a member of the municipal waste combustor industry, a member who is or has  
79.3 been employed at a power operation facility using combustion or air pollution control  
79.4 technologies comparable to the facility where the applicant is employed, and a member  
79.5 able to discharge the functions of the board of examiners, under the conditions specified  
79.6 by the commissioner.

79.7 The commissioner may appoint additional board members if the facility for which  
79.8 the applicant seeks certification is complex and the commissioner determines that  
79.9 additional examiners will help the board determine the applicant's technical knowledge,  
79.10 problem-solving ability, and understanding of plant operations.

79.11 Additional Pollution Control Agency representatives, a representative from the  
79.12 facility, a representative of an industry trade group, or a member of the public shall be  
79.13 allowed by the commissioner to observe the examination.

79.14 [For text of subps 4 and 5, see M.R.]

79.15 **7011.1305 STANDARDS OF PERFORMANCE FOR EXISTING SEWAGE**  
79.16 **SLUDGE INCINERATORS.**

79.17 No owner or operator of an existing sewage sludge incinerator shall allow to be  
79.18 discharged into the atmosphere from the sewage sludge incinerator any gases that:

79.19 A. contain filterable particulate matter in excess of 0.3 gr/dscf corrected to 12  
79.20 percent CO<sub>2</sub> if the incinerator has a burning capacity of less than 200 pounds per hour;

79.21 B. contain filterable particulate matter in excess of 0.2 gr/dscf corrected to 12  
79.22 percent CO<sub>2</sub> if the incinerator has a burning capacity of 200 to 2,000 pounds per hour;

79.23 C. contain filterable particulate matter in excess of 0.1 gr/dscf corrected to 12  
79.24 percent CO<sub>2</sub> if the incinerator has a burning capacity of greater than 2,000 pounds per hour.

79.25 No owner or operator of an existing sewage sludge incinerator shall cause to be  
79.26 discharged into the atmosphere from the incinerator any gases that exhibit greater than 20

80.1 percent opacity, except for one six-minute period per hour of not more than 33 percent  
80.2 opacity. An exceedance of this opacity standard occurs whenever any one-hour period  
80.3 contains two or more six-minute periods during which the average opacity exceeds 20  
80.4 percent or whenever any one-hour period contains one or more six-minute periods during  
80.5 which the average opacity exceeds 33 percent.

80.6 No owner or operator of an existing sewage sludge incinerator shall operate the  
80.7 incinerator unless the incinerator uses auxiliary fuel burners that maintain a minimum  
80.8 temperature of 1,200 degrees Fahrenheit for a minimum retention time of 0.3 second or  
80.9 other method of odor control as approved by the commissioner.

80.10 For the purposes of this part, "existing sewage sludge incinerator" means a sewage  
80.11 sludge incinerator on which construction, modification, or reconstruction did not  
80.12 commence after June 11, 1973.

80.13 **7011.1310 STANDARDS OF PERFORMANCE FOR NEW SEWAGE SLUDGE**  
80.14 **INCINERATORS.**

80.15 No owner or operator of a new sewage sludge incinerator shall allow to be discharged  
80.16 into the atmosphere from the incinerator any gases that:

80.17 A. contain filterable particulate matter in excess of 0.65 g/kg dry sludge input  
80.18 (1.30 lb/ton dry sludge input); or

80.19 B. exhibit 20 percent opacity or greater.

80.20 No owner or operator of a new sewage sludge incinerator shall operate the incinerator  
80.21 unless the incinerator uses auxiliary fuel burners that maintain a minimum temperature of  
80.22 1,200 degrees Fahrenheit for a minimum retention time of 0.3 second or other method of  
80.23 odor control as approved by the commissioner.

80.24 For the purposes of this part, "new sewage sludge incinerator" means a sewage sludge  
80.25 incinerator on which construction, modification, or reconstruction commenced after June  
80.26 11, 1973.



81.1 **7011.1320 PERFORMANCE TEST METHODS.**

81.2 Unless another method is approved by the agency, an owner or operator required to  
81.3 submit performance tests for a sewage sludge incinerator must use the following test  
81.4 methods to demonstrate compliance:

81.5 A. Method 1 for sample and velocity traverses;

81.6 B. Method 2 for volumetric flow rate;

81.7 C. Method 3 for gas analysis; and

81.8 D. Method 5 for concentration of filterable particulate matter and associated  
81.9 moisture content.

81.10 **7011.1400 DEFINITIONS.**

81.11 [For text of subps 1 to 10, see M.R.]

81.12 Subp. 11. **Process gas.** "Process gas" means any gas generated by a petroleum  
81.13 refinery process unit, except fuel gas.

81.14 Subp. 12. [See repealer.]

81.15 [For text of subps 13 and 14, see M.R.]

81.16 **7011.1405 STANDARDS OF PERFORMANCE FOR EXISTING AFFECTED**  
81.17 **FACILITIES AT PETROLEUM REFINERIES.**

81.18 Subpart 1. **Fluid catalytic cracking unit catalyst regenerator and**  
81.19 **incinerator-waste heat boiler.** No owner or operator of an existing fluid catalytic  
81.20 cracking unit catalyst regenerator or its incinerator-waste heat boiler at a petroleum  
81.21 refinery shall allow to be discharged into the atmosphere from the regenerator or its  
81.22 incinerator-waste heat boiler any gases that:

81.23 A. contain filterable particulate matter in excess of 10.0 lb/1000 lb (10.0  
81.24 kg/1000 kg) of coke burn-off in the catalyst regenerator; or

82.1 [For text of item B, see M.R.]

82.2 Subp. 2. **Fuel gas combustion device and indirect heating equipment.** Flares  
82.3 subject to the conditions of Code of Federal Regulations, title 40, part 60, subpart Ja,  
82.4 are not subject to the limits of this subpart. No owner or operator of existing fuel gas  
82.5 combustion devices and indirect heating equipment at a petroleum refinery shall cause  
82.6 to be discharged into the atmosphere from such devices and equipment any gases which  
82.7 contain sulfur dioxide in excess of 1.75 pounds per million Btu (3.15 grams per million  
82.8 cal) heat input. The total emissions of sulfur dioxide from all existing fuel gas combustion  
82.9 devices and all indirect heating equipment shall be divided by the total heat input of all  
82.10 such devices and equipment to determine compliance with this section; provided that no  
82.11 owner or operator shall cause to be discharged from any one fuel gas combustion device  
82.12 or any one unit of indirect heating equipment any gases which contain sulfur dioxide in  
82.13 excess of 3.0 pounds per million Btu (5.4 grams per million cal) heat input.

82.14 Subp. 3. **Indirect heating equipment.** The standards of performance in parts  
82.15 7011.0500 to 7011.0530 for indirect heating equipment do not apply to indirect heating  
82.16 equipment at a petroleum refinery. Only the standards of performance for indirect heating  
82.17 equipment in this part apply to indirect heating equipment. No owner or operator of  
82.18 existing indirect heating equipment at a petroleum refinery shall allow to be discharged  
82.19 into the atmosphere from the equipment any gases that:

82.20 A. contain filterable particulate matter in excess of 0.4 pounds per million Btu  
82.21 (0.72 grams per million cal) heat input; or

82.22 [For text of item B, see M.R.]

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

83.1 **7011.1410 STANDARDS OF PERFORMANCE FOR NEW AFFECTED**  
83.2 **FACILITIES AT PETROLEUM REFINERIES.**

83.3 Subpart 1. **Fluid catalytic cracking unit catalyst regenerator and**  
83.4 **incinerator-waste heat boiler.** No owner or operator of a new fluid catalytic cracking  
83.5 unit catalyst regenerator or its incinerator-waste heat boiler at a petroleum refinery shall  
83.6 allow to be discharged into the atmosphere from the regenerator or incinerator-waste  
83.7 heat boiler any gases that:

83.8 A. contain filterable particulate matter in excess of 1.0 lb/1000 lb (1.0 kg/1000  
83.9 kg) of coke burn-off in the catalyst regenerator; or

83.10 [For text of item B, see M.R.]

83.11 Subp. 2. **Fuel gas combustion device.** Flares subject to the conditions of Code  
83.12 of Federal Regulations, title 40, part 60, subpart Ja, are not subject to the limits of this  
83.13 subpart. No owner or operator of a new fuel gas combustion device at a petroleum refinery  
83.14 shall burn in any such device any fuel gas which contains H<sub>2</sub>S in excess of 0.10 gr/dscf,  
83.15 (230 mg/dscm) except as provided herein. The owner or operator may elect to treat the  
83.16 gases resulting from the combustion of fuel gas in a manner which limits the release of SO<sub>2</sub>  
83.17 to the atmosphere if it is shown to the satisfaction of the commissioner that this prevents  
83.18 SO<sub>2</sub> emissions as effectively as compliance with the H<sub>2</sub>S restriction set forth above.

83.19 Subp. 3. **Indirect heating equipment.** The standards of performance in parts  
83.20 7011.0500 to 7011.0530 for indirect heating equipment do not apply to indirect heating  
83.21 equipment at a petroleum refinery. Only the standards of performance for indirect heating  
83.22 equipment in this subpart apply to indirect heating equipment.

83.23 [For text of item A, see M.R.]

83.24 B. No owner or operator of new indirect heating equipment at a petroleum  
83.25 refinery shall allow to be discharged into the atmosphere from the equipment any gases that:

84.1 (1) contain filterable particulate matter in excess of 0.4 pounds per million  
84.2 Btu (0.72 grams per million cal) heat input; or

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

84.4 C. The owner or operator of a new steam generating unit of more than 250  
84.5 million Btu per hour (63 million cal per hour) heat input at a petroleum refinery shall  
84.6 comply with the following requirements:

84.7 (1) No gases shall be discharged from the steam generating unit that  
84.8 contain filterable particulate matter in excess of 0.1 pounds per million Btu (0.18 grams  
84.9 per million cal) heat input.

84.10 [For text of subitems (2) and (3), see M.R.]

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

84.12 **7011.1425 PERFORMANCE TEST METHODS.**

84.13 Subpart 1. **In general.** Unless another method is approved by the commissioner, a  
84.14 person required to submit performance tests for a petroleum refinery must use the test  
84.15 methods in this part to demonstrate compliance.

84.16 Subp. 2. **Gases released to atmosphere from fluid catalytic cracking unit catalyst**  
84.17 **regenerator.** For gases released to the atmosphere from the fluid catalytic cracking unit  
84.18 catalyst regenerator:

84.19 A. Method 1 for sample and velocity traverses;

84.20 B. Method 2 for velocity and volumetric flow rate;

84.21 C. Method 5 for the concentration of filterable particulate matter and moisture  
84.22 content;

84.23 D. Method 9 for visual determination of the opacity of emissions from  
84.24 stationary sources;

85.1 E. Method 10 for carbon monoxide.

85.2 [For text of subps 3 and 4, see M.R.]

85.3 Subp. 5. **Gases to atmosphere from combustion.** For gases released to the  
85.4 atmosphere from the combustion of fuel gas, fossil fuel, and the combination of fuel  
85.5 gas and fossil fuel:

85.6 A. Method 1 for sample and velocity traverses;

85.7 B. Method 2 for velocity and volumetric flow rate;

85.8 C. Method 5 for the concentration of filterable particulate matter and moisture  
85.9 content;

85.10 D. Method 6 for concentration of SO<sub>2</sub>;

85.11 E. Method 9 for visual determination of the opacity of emissions from  
85.12 stationary sources.

85.13 **7011.1435 INCORPORATION BY REFERENCE OF NEW SOURCE**  
85.14 **PERFORMANCE STANDARDS ~~BY REFERENCE~~.**

85.15 The following New Source Performance Standards are adopted and incorporated  
85.16 by reference:

85.17 A. Code of Federal Regulations, title 40, part 60, subpart J, as amended, entitled  
85.18 "Standards of Performance for Petroleum Refineries," except that decisions made by the  
85.19 administrator under Code of Federal Regulations, title 40, sections 60.105(a)(13)(iii) and  
85.20 60.106(i)(12), are not delegated to the commissioner and must be made by the administrator.

85.21 B. Code of Federal Regulations, title 40, part 60, subpart GGG, as amended,  
85.22 entitled "Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries,"  
85.23 except that decisions made by the administrator under Code of Federal Regulations, title  
85.24 40, section 60.592(c), are not delegated to the commissioner and must be made by the  
85.25 administrator.

C. Code of Federal Regulations, title 40, part 60, subpart QQQ, as amended, entitled "Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems," except that decisions made by the administrator under Code of Federal Regulations, title 40, section 60.694, are not delegated to the commissioner and must be made by the administrator.

D. Code of Federal Regulations, title 40, part 60, subpart Ja, as amended, entitled "Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007," except that decisions made by the administrator under Code of Federal Regulations, title 40, section 60.109a(b), are not delegated to the commissioner and must be made by the administrator.

E. Code of Federal Regulations, title 40, part 60, subpart GGGa, as amended, entitled "Standards of Performance for Equipment Leaks of VOC at Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006."

**7011.1730 INCORPORATION BY REFERENCE OF NEW SOURCE PERFORMANCE STANDARDS ~~BY REFERENCE~~.**

A. Code of Federal Regulations, title 40, part 60, subpart G, as amended, entitled "Standards of Performance for Nitric Acid Plants," is adopted and incorporated by reference.

B. Code of Federal Regulations, title 40, part 60, subpart Ga, as amended, entitled "Standards of Performance for Nitric Acid Plants for Which Construction, Reconstruction, or Modification Commenced After October 14, 2011," is incorporated by reference.

**7011.1905 STANDARDS OF PERFORMANCE FOR SECONDARY BRASS AND BRONZE INGOT PRODUCTION PLANTS.**

No owner or operator of a secondary brass or bronze ingot production plant shall allow to be discharged into the atmosphere from a reverberatory furnace any gases that:

87.1 A. contain filterable particulate matter in excess of 50 mg/dscm (0.022 gr/dscf);

87.2 [For text of item B, see M.R.]

87.3 **7011.1910 PERFORMANCE TEST METHODS.**

87.4 Unless another method is approved by the agency, an owner or operator required  
87.5 to submit performance tests for a brass or bronze ingot production plant must use the  
87.6 following test methods to demonstrate compliance:

87.7 A. Method 1 for sample and velocity traverses;

87.8 B. Method 2 for velocity and volumetric flow rate;

87.9 C. Method 3 for gas analysis;

87.10 D. Method 5 for the concentration of filterable particulate matter and the  
87.11 associated moisture content.

87.12 **7011.2005 STANDARDS OF PERFORMANCE FOR IRON AND STEEL PLANTS.**

87.13 No owner or operator of an iron and steel plant shall allow to be discharged into  
87.14 the atmosphere from any basic oxygen process furnace any gases that contain filterable  
87.15 particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).

87.16 **7011.2010 PERFORMANCE TEST METHODS.**

87.17 Unless another method is approved by the agency, an owner or operator required to  
87.18 submit performance tests for an iron and steel plant must use the following test methods to  
87.19 demonstrate compliance:

87.20 A. Method 1 for sample and velocity traverses;

87.21 B. Method 2 for volumetric flow rate;

87.22 C. Method 3 for gas analysis;

87.23 D. Method 5 for concentration of filterable particulate matter and associated  
87.24 moisture content.

88.1 **7011.2300 STANDARDS OF PERFORMANCE FOR STATIONARY INTERNAL**  
88.2 **COMBUSTION ENGINES.**

88.3 [For text of subp 1, see M.R.]

88.4 Subp. 2. **Sulfur dioxide.**

88.5 A. No owner or operator of a stationary internal combustion engine shall allow  
88.6 to be discharged into the atmosphere from the engine any gases that contain sulfur dioxide  
88.7 in excess of 0.5 pounds per million Btu actual heat input unless an alternative limit is  
88.8 established in an air emission permit after demonstration through modeling of compliance  
88.9 with the sulfur dioxide standards in part 7009.0080.

88.10 B. No later than January 31, 2018, owners or operators of a stationary internal  
88.11 combustion engine must not allow any gases that contain sulfur dioxide in excess of  
88.12 0.0015 pounds per million Btu actual heat input to be discharged into the atmosphere from  
88.13 the engine unless the agency establishes an alternative sulfur dioxide emission limit in an  
88.14 air emission permit that includes a demonstration through modeling of compliance with  
88.15 the sulfur dioxide standards in part 7009.0080.

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

88.17 **7011.2375 INCORPORATION BY REFERENCE OF NEW SOURCE**  
88.18 **PERFORMANCE STANDARD FOR STATIONARY COMBUSTION TURBINES.**

88.19 Code of Federal Regulations, title 40, part 60, subpart KKKK, as amended, entitled  
88.20 "Standards of Performance for Stationary Combustion Turbines," is adopted and  
88.21 incorporated by reference, except that decisions made by the administrator under Code of  
88.22 Federal Regulations, title 40, section 60.737(b), are not delegated to the commissioner  
88.23 and must be made by the administrator.



89.1 **7011.2450 STANDARDS OF PERFORMANCE FOR NEW KRAFT PULP MILLS.**

89.2 A. Code of Federal Regulations, title 40, part 60, subpart BB, as amended,  
89.3 entitled "Standards of Performance for Kraft Pulp Mills," is adopted and incorporated  
89.4 by reference.

89.5 B. Code of Federal Regulations, title 40, part 60, subpart BBa, as amended,  
89.6 entitled "Standards of Performance for Kraft Pulp Mill Affected Sources for Which  
89.7 Construction, Reconstruction, or Modification Commenced After May 23, 2013," is  
89.8 adopted and incorporated by reference.

89.9 **7011.2900 INCORPORATION BY REFERENCE OF NEW SOURCE**  
89.10 **PERFORMANCE STANDARDS BY REFERENCE.**

89.11 The following New Source Performance Standards are adopted and incorporated  
89.12 by reference:

89.13 A. Code of Federal Regulations, title 40, part 60, subpart VV, as amended,  
89.14 entitled "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic  
89.15 Chemicals Manufacturing Industry," except that decisions made by the administrator  
89.16 under Code of Federal Regulations, title 40, section 60.482-1(c)(2), are not delegated to  
89.17 the commissioner and must be made by the administrator.

89.18 B. Code of Federal Regulations, title 40, part 60, subpart III, as amended,  
89.19 entitled "Standards of Performance for Volatile Organic Compound (VOC) Emissions  
89.20 from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation  
89.21 Unit Processes," except that decisions made by the administrator under Code of Federal  
89.22 Regulations, title 40, section 60.613(e), are not delegated to the commissioner and must be  
89.23 made by the administrator.

89.24 C. Code of Federal Regulations, title 40, part 60, subpart NNN, as amended,  
89.25 entitled "Standards of Performance for Volatile Organic Compound (VOC) Emissions  
89.26 From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation

90.1 Operations," except that decisions made by the administrator under Code of Federal  
90.2 Regulations, title 40, section 60.663(e), are not delegated to the commissioner and must be  
90.3 made by the administrator.

90.4 D. Code of Federal Regulations, title 40, part 60, subpart VVa, as amended,  
90.5 entitled "Standards of Performance for Equipment Leaks of VOC in the Synthetic  
90.6 Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or  
90.7 Modification Commenced After November 7, 2006." With this incorporation, reporting  
90.8 requirements of Code of Federal Regulations, title 40, section 60.487a, remain unchanged.

90.9 **7011.7050 INDUSTRIAL, COMMERCIAL, AND INSTITUTIONAL BOILERS**  
90.10 **AND PROCESS HEATERS; MAJOR SOURCES.**

90.11 Code of Federal Regulations, title 40, part 63, subpart DDDDD, as amended, entitled  
90.12 "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial,  
90.13 and Institutional Boilers and Process Heaters," is incorporated by reference, except that  
90.14 the authorities identified in Code of Federal Regulations, title 40, section ~~63.313(d)~~  
90.15 63.7570(b), are not delegated to the commissioner and are retained by the administrator.

90.16 **7011.7185 GASOLINE DISPENSING FACILITIES.**

90.17 Code of Federal Regulations, title 40, part 63, subpart CCCCC, as amended,  
90.18 entitled "National Emission Standards for Hazardous Air Pollutants for Source Category:  
90.19 Gasoline Dispensing Facilities," is adopted and incorporated by reference, except that the  
90.20 authorities identified in Code of Federal Regulations, title 40, part 63.11131 (c), are not  
90.21 delegated to the commissioner and are retained by the administrator.

90.22 ~~**7011.7630 PORTLAND CEMENT KILNS.**~~

90.23 ~~Code of Federal Regulations, title 40, part 63, subpart LLL, as amended, entitled~~  
90.24 ~~"National Emission Standards for Hazardous Air Pollutants From the Portland Cement~~  
90.25 ~~Manufacturing Industry," is adopted and incorporated by reference, except that the~~

91.1 ~~decisions made by the administrator under Code of Federal Regulations, title 40, section~~  
91.2 ~~63.1358 (e), are not delegated to the commissioner and must be made by the administrator.~~

91.3 **7017.1002 DEFINITIONS.**

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

91.5 Subp. 7a. **Grace period.** "Grace period" applies to monitor quality control audits  
91.6 and means a period of unit or stack operating hours beginning with the first unit or stack  
91.7 operating hour following the calendar quarter in which an audit was due. All operating  
91.8 hours apply toward the grace period regardless of whether the hours are consecutive.

91.9 [For text of subps 8 to 11, see M.R.]

91.10 Subp. 11a. **Quality assurance operating quarter.** "Quality assurance operating  
91.11 quarter" or "QA operating quarter" means a calendar quarter in which there are at least  
91.12 168 unit operating hours.

91.13 [For text of subp 12, see M.R.]

91.14 Subp. 13. **Stack operating hour.** "Stack operating hour" means a clock hour during  
91.15 which flue gases flow through a particular stack or duct for the entire hour or for any part  
91.16 of the hour. Clock hour has the meaning given in Code of Federal Regulations, title  
91.17 40, section 60.13 (h)(2)(i), as amended.

91.18 Subp. 14. **Unit operating hour.** "Unit operating hour" means a clock hour during  
91.19 which an emission unit operates for the entire hour or for any part of the hour. Clock hour  
91.20 has the meaning given in Code of Federal Regulations, title 40, section 60.13 (h)(2)(i), as  
91.21 amended.

91.22 **7017.1080 CERTIFICATION TEST REPORT REQUIREMENTS.**

91.23 Subpart 1. **Report required.** The owner or operator of the emission facility must  
91.24 prepare and submit a certification test report in a format specified by the commissioner. A  
91.25 report must be submitted for any certification test that was required, whether or not the test

92.1 data indicate compliance with the appropriate performance specifications, and whether or  
92.2 not the test was completed according to the approved test plan.

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

92.4 Subp. 3. [See repealer.]

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

92.6 **7017.1110 EXCESS EMISSIONS REPORTS.**

92.7 [For text of subp 1, see M.R.]

92.8 Subp. 2. **Contents of excess emissions report.** The excess emissions report must  
92.9 contain the information in items A to E.

92.10 [For text of items A to C, see M.R.]

92.11 D. Summary of the cylinder gas audit and relative accuracy test audit required  
92.12 by parts 7017.1180 and 7017.1220 if the audits were completed in the previous quarter.

92.13 E. If applicable, notifications of exceptions of applicability from audit  
92.14 frequencies as allowed in parts 7017.1170, subparts 4a and 5a, and 7017.1215.

92.15 **7017.1120 SUBMITTALS.**

92.16 Subpart 1. **Address.** The owner or operator of the facility must send all submittals  
92.17 required under parts 7017.1002 to 7017.1220 to the agency in a physical or electronic  
92.18 format as specified by the commissioner and to the address identified on the required  
92.19 form or as provided by the agency.

92.20 Subp. 2. [See repealer.]

92.21 Subp. 3. **Date.** Submittals must be postmarked or received by the date specified in  
92.22 the applicable regulation or compliance document.

92.23 Subp. 4. **Certification.** All submittals, except for certification test-plans and relative  
92.24 accuracy test audits notifications, must be accompanied by a certification statement in a

93.1 format specified by the commissioner and signed by a responsible official, pursuant to  
93.2 part 7007.0500, subpart 3.

93.3 **7017.1170 QUALITY ASSURANCE AND CONTROL REQUIREMENTS FOR**  
93.4 **CEMS.**

93.5 Subpart 1. [See repealer.]

93.6 Subp. 1a. **Applicability.** The quality assurance and control requirements in this  
93.7 part apply to each CEMS unless otherwise specified by another applicable standard. If  
93.8 multiple CEMS standards apply to a single CEMS unit, the requirements of all applicable  
93.9 standards must be met.

93.10 Subp. 2. **Quality assurance plan required.** The owner or operator of the facility  
93.11 must develop and implement a written quality assurance plan that covers each CEMS.  
93.12 The plan must be on site and available for inspection within 30 days after monitor  
93.13 certification. The plan must be revised as needed to keep the plan up to date with the  
93.14 facility's current policies and procedures. The plan must contain all of the information  
93.15 required by Code of Federal Regulations, title 40, part 60, appendix F, section 3, or Code  
93.16 of Federal Regulations, title 40, part 75, Appendix B, as amended. The plan must include  
93.17 the manufacturer's spare parts list for each CEMS and require that those parts be kept at  
93.18 the facility unless the commissioner gives written approval to exclude specific spare parts  
93.19 from the list. The commissioner may approve requested exclusions if the commissioner  
93.20 determines that it is not reasonable to keep a specific part on site after consideration of  
93.21 the consequences of a malfunction of the part, the likelihood of a malfunction, the time  
93.22 required to obtain the part, and other pertinent factors.

93.23 Subp. 3. **Daily calibration drift assessment and adjustment.** The facility owner  
93.24 or operator must conduct daily calibration drift assessments and make adjustments as  
93.25 needed according to the procedure listed in items A and B, Code of Federal Regulations,  
93.26 title 40, section 60.13(d)(1), or Code of Federal Regulations, title 40, part 75, Appendix

94.1 B, section 2.1, as amended, as applicable, for each pollutant concentration and diluent  
94.2 monitor. The calibration drift assessment must be conducted on each monitor range. The  
94.3 span value specified in the applicable requirement or compliance document must be used  
94.4 to determine the zero and span calibration points. If no span value is specified in the  
94.5 applicable requirement or compliance document, the owner or operator must use a span  
94.6 value equivalent to 1.5 times the emission limit.

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

94.8 Subp. 4. [See repealer.]

94.9 Subp. 4a. **Cylinder gas audit.**

94.10 A. The owner or operator must complete the initial cylinder gas audit (CGA)  
94.11 within 180 days following certification of the CEMS. The owner or operator must conduct  
94.12 subsequent CGAs on each concentration and diluent monitor on each CEMS no later  
94.13 than the end of every ~~other~~ second QA operating quarter, regardless of whether the  
94.14 quarters are consecutive ~~calendar~~ calendar quarters. ~~The audit must be performed,~~ according to  
94.15 Code of Federal Regulations, title 40, part 60, Appendix F, section 5.1.2, or Code of  
94.16 Federal Regulations, title 40, part 75, Appendix A, section 6.2, as amended. As part of  
94.17 each quarterly excess emission report, the owner or operator must submit notification of  
94.18 any exception to CGA frequency that it used during the reporting period. A CGA is not  
94.19 required during any ~~calendar half year~~ quarter in which a relative accuracy test audit was  
94.20 performed on the CEMS.

94.21 B. If the unit being monitored by the CEMS is not in operation on the CGA due  
94.22 date, the owner or operator has a grace period of 168 operating hours in which to perform  
94.23 a CGA on that monitor. If, at the end of the 168-operating-hour grace period, the CGA has  
94.24 not been completed, data from the CEMS is invalid beginning with the first unit operating  
94.25 hour following expiration of the grace period. Nothing in this subpart relieves the owners'

95.1 or operators' obligation to comply with quality assurance provisions imposed by other  
95.2 applicable standards or compliance documents.

95.3 C. The audit frequency in Code of Federal Regulations, title 40, part 60,  
95.4 Appendix F, as amended, applies only if the unit is subject to Code of Federal Regulations,  
95.5 title 40, part 60.

95.6 Subp. 5. [See repealer.]

95.7 Subp. 5a. **Relative accuracy test audits.** The owner or operator must complete  
95.8 relative accuracy test audits (RATAs) as required by this subpart.

95.9 A. RATAs must be conducted using the applicable procedures in Code of  
95.10 Federal Regulations, title 40, part 60, Appendix B, or Code of Federal Regulations, title  
95.11 40, part 75, Appendix A, sections 6.5 to 6.5.2.2, and Appendix B, sections 2.3.1.3 and  
95.12 2.3.1.4, as amended, as applicable.

95.13 B. The owner or operator must complete a RATA on each CEMS within 365  
95.14 days following certification of the CEMS. Subsequent RATAs must be conducted on each  
95.15 ~~monitor range of a CEMS~~ no later than the end of every fourth QA operating quarter,  
95.16 regardless of whether the operating quarters are consecutive ~~calendar quarters~~, unless  
95.17 the conditions in item C apply.

95.18 C. The owner or operator may conduct less frequent RATAs as described in  
95.19 subitems (1) and (2). The owner or operator must include notification of the reduced  
95.20 frequency or delay in performing a RATA to the commissioner in each quarterly excess  
95.21 emission report during which a RATA would have been due. Nothing in this subpart  
95.22 relieves the owners' or operators' obligation to comply with quality assurance provisions  
95.23 imposed by other applicable requirements or compliance documents.

95.24 (1) If a RATA demonstrates less than 75 percent of the performance  
95.25 specification under the applicable performance standard of Code of Federal Regulations,

96.1 title 40, part 60, Appendix B, as amended, the next RATA is due before the end of the  
96.2 sixth subsequent QA operating quarter.

96.3 (2) If the unit is not in operation at the RATA due date, the owner or  
96.4 operator has a grace period of 720 operating hours in which to perform a RATA on that  
96.5 monitor. If, at the end of the 720-operating-hour grace period, the RATA has not been  
96.6 completed, data from the CEMS is invalid beginning with the first unit operating hour  
96.7 following expiration of the grace period.

96.8 Subp. 6. **Criteria for excessive CEMS audit inaccuracy.** The criteria for excessive  
96.9 inaccuracy are:

96.10 A. for RATAs, the relative accuracy value specified in the appropriate  
96.11 Performance Specification of Code of Federal Regulations, title 40, part 60, Appendix B,  
96.12 and Code of Federal Regulations, title 40, part 75, Appendix A, section 3.3, as amended,  
96.13 as applicable; and

96.14 B. for CGAs, the average audit value must be within 15 percent of the cylinder  
96.15 gas value or five ppm, whichever is greater.

96.16 Subp. 7. **Calibration gases.** Gas mixtures must not be used after the manufacturer's  
96.17 certification expiration data. The expiration date must be clearly labeled on the container  
96.18 of each gas.

96.19 Subp. 8. **Out of control periods.** Data is not considered valid and may not be used  
96.20 for ~~emissions calculations~~ compliance demonstration during out of control periods as  
96.21 defined in part 7017.1002. The out of control period is considered downtime and the  
96.22 owner or operator must follow the requirements of Code of Federal Regulations, title 40,  
96.23 part 60, Appendix F, sections 4.3.2 and 5.2.2, as amended. An owner or operator may  
96.24 not apply the data substitution procedures in Code of Federal Regulations, title 40, part  
96.25 75, as amended, to comply with this part.



97.1 **7017.1215 QUALITY ASSURANCE AND CONTROL REQUIREMENTS FOR**  
97.2 **COMS.**

97.3 For quality assurance and control requirements for COMS, the facility owner or  
97.4 operator must conduct quality assurance and quality control as specified in Procedure  
97.5 3 - Quality Assurance Requirements for Continuous Opacity Monitoring Systems at  
97.6 Stationary Sources, Code of Federal Regulations, title 40, part 60, Appendix F, as  
97.7 amended, which is adopted and incorporated by reference.

97.8 **7017.2015 INCORPORATION OF FEDERAL TESTING REQUIREMENTS BY**  
97.9 **REFERENCE.**

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

97.11 Subp. 4. **Document submission.** All requests, reports, applications, submittals, and  
97.12 other communications to the administrator pursuant to subparts 2 and 3 must be submitted  
97.13 to the person identified in part 7017.2017, except that for those sections identified in this  
97.14 part as not delegated to the commissioner, the request, report, application, or submittal  
97.15 must be submitted to the EPA administrator.

97.16 **7017.2017 SUBMITTALS.**

97.17 All submittals required under parts 7017.2015 to 7017.2060 must be submitted in  
97.18 a physical or electronic format as specified by the commissioner and sent to the address  
97.19 identified on the required form or provided by the commissioner.

97.20 **7017.2025 OPERATIONAL REQUIREMENTS AND LIMITATIONS.**

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

97.22 Subp. 3a. **Compliance with new operating limits.** If a new operating limit is  
97.23 imposed pursuant to subpart 3, it shall be implemented according to items A to C, unless  
97.24 otherwise defined in an applicable requirement or compliance document.

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

98.1 C. For new operating limits and pollution control equipment limits not specified  
98.2 in item A or B, the averaging time and any extension of the range of values must be  
98.3 defined in the test plan approved under part 7017.2030, subpart 2.

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

98.5 Subp. 4. **Failure to demonstrate compliance.**

98.6 [For text of item A, see M.R.]

98.7 B. The owner or operator may receive an extension to the schedule in item A  
98.8 if the owner or operator demonstrates in writing to the commissioner that one of the  
98.9 following special circumstances applies:

98.10 [For text of subitems (1) to (5), see M.R.]

98.11 (6) the owner or operator needs additional time to complete corrective  
98.12 actions or procedural changes to the affected emission unit or units before retesting.

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

98.14 Subp. 5. **Failure of retest.** If the owner or operator has conducted a retest under  
98.15 subpart 4 and the commissioner provides written notice to the owner or operator of the  
98.16 emission facility that the retest provides a second demonstration of noncompliance with  
98.17 an applicable emission limit, the owner or operator must comply with this subpart.

98.18 A. Unless item B applies, the owner or operator must demonstrate to the  
98.19 commissioner that corrective actions or procedural changes have been made that will be  
98.20 applied consistently and that will, when properly executed, ensure that the emission units  
98.21 will demonstrate compliance at all times with all applicable emission limits and capture,  
98.22 removal, or destruction efficiency requirements.

98.23 (1) If the owner or operator identifies such corrective actions or procedural  
98.24 changes and receives the commissioner's written approval of the required demonstration,  
98.25 the owner or operator may continue to operate the affected emissions units, provided the

99.1 owner or operator continues to implement the approved actions or changes. If required by  
99.2 parts 7007.1150 to 7007.1500, the owner or operator must apply for a permit amendment  
99.3 to incorporate the approved actions or changes into the facility permit.

99.4 (2) If the owner or operator cannot identify such corrective actions or  
99.5 procedural changes, the owner or operator must comply with item B.

99.6 B. If the owner or operator cannot first make the demonstration specified in  
99.7 item A and does not receive written approval to operate according to item A, the owner  
99.8 or operator must propose terms and conditions to the commissioner, in writing, that will  
99.9 ensure compliance with all conditions or requirements underlying each limit that the  
99.10 owner or operator failed.

99.11 (1) If the commissioner determines that the terms and conditions will  
99.12 ensure compliance at all times with the conditions or requirements underlying each limit  
99.13 that the owner or operator failed, the owner or operator must apply for the appropriate  
99.14 permit amendment to incorporate the terms and conditions into the facility permit.

99.15 (2) If the commissioner determines that the terms and conditions will not  
99.16 ensure compliance with the conditions or requirements underlying each limit that the  
99.17 owner or operator failed, the owner or operator must shut down the affected emission  
99.18 unit or units and must not restart the unit or units until the owner or operator corrects all  
99.19 deficiencies in the proposal and the commissioner approves the proposal.

99.20 [For text of subp 6, see M.R.]

99.21 **7017.2035 PERFORMANCE TEST REPORTING REQUIREMENTS.**

99.22 [For text of subp 1, see M.R.]

99.23 Subp. 2. **Submittal schedule.** The performance test report must be postmarked or  
99.24 received within 45 days following completion of the performance test unless an alternate  
99.25 schedule is given in the applicable compliance document. The owner or operator of the

100.1 emission facility may request in the test plan that the submittal deadline be extended by up  
100.2 to 15 days if the complexity of the test schedule or the laboratory analysis is such that  
100.3 submittal within 45 days is impractical.

100.4 Subp. 3. **Complete report.** The report must include the following elements:

100.5 [For text of items A to C, see M.R.]

100.6 D. Summary of results:

100.7 (1) emission results, expressed in the same units as the emission limits or in  
100.8 units prescribed in any applicable compliance document as defined in part 7017.2005,  
100.9 subpart 2;

100.10 [For text of subitems (2) to (6), see M.R.]

100.11 [For text of items E to I, see M.R.]

100.12 **7017.2050 PERFORMANCE TEST METHODS.**

100.13 Subpart 1. **Test methods.** Unless a different method is given in an applicable  
100.14 requirement or compliance document, the owner or operator of an emission facility shall  
100.15 conduct performance tests using the methods incorporated by reference in part 7017.2010  
100.16 and following the requirements in part 7017.2060, unless an alternative or equivalent  
100.17 method is approved or required by the commissioner in accordance with subpart 2. If the  
100.18 methods incorporated by reference include exemptions and exclusions that do not meet the  
100.19 requirements of parts 7017.2001 to 7017.2060, the exemptions and exclusions do not apply.

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

100.21 **7017.2060 PERFORMANCE TEST PROCEDURES.**

100.22 [For text of subps 1 and 2, see M.R.]

100.23 Subp. 3. **Particulate matter determination.** The owner or operator must conduct  
100.24 particulate matter emission tests as required in this subpart.

101.1           A. Unless the commissioner has approved an equivalent method, the owner or  
101.2 operator must use Method 5, Code of Federal Regulations, title 40, part 60, Appendix A-3,  
101.3 as amended, and Method 202, Code of Federal Regulations, title 40, part 51, Appendix  
101.4 M, as amended.

101.5           B. The owner or operator must report:

101.6                 (1) the results for filterable, organic condensable, and inorganic  
101.7 condensable particulate matter separately; and

101.8                 (2) the sum of filterable and organic condensable particulate matter.

101.9           C. An emission facility's compliance status is based on a comparison of the sum  
101.10 of filterable and organic condensable particulate matter to the applicable limit, unless  
101.11 otherwise required under chapter 7011.

101.12           D. When submitting a proposed test plan, an owner or operator may apply to  
101.13 the commissioner to exclude organic condensable particulate matter from a performance  
101.14 test for particulate matter. ~~The commissioner shall approve the exclusion if the owner or~~  
101.15 ~~operator demonstrates~~ must demonstrate:

101.16                 (1) through previous performance test results that the emissions unit is not  
101.17 a source of organic condensable particulate matter emissions; or

101.18                 (2) that an exception in Method 202, section 1.4(h), as amended, applies.

101.19           Subp. 4. **PM-10 determination.** The owner or operator must conduct PM-10  
101.20 emission tests as required in this subpart.

101.21           A. Unless the commissioner has approved an equivalent method, the owner or  
101.22 operator must use Method 201 or 201A, Code of Federal Regulations, title 40, part 51,  
101.23 Appendix M, as amended, and Method 202, Code of Federal Regulations, title 40, part 51,  
101.24 Appendix M, as amended.

101.25           B. The owner or operator must report:

102.1 (1) the results for filterable, organic condensable, and inorganic  
102.2 condensable PM-10 separately; and

102.3 (2) the sum of filterable, organic condensable, and inorganic condensable  
102.4 PM-10.

102.5 C. An emission facility's compliance status is based on a comparison of the sum  
102.6 of filterable, organic condensable, and inorganic condensable PM-10 to the applicable  
102.7 PM-10 limit, unless otherwise required under chapter 7011.

102.8 D. When submitting a proposed test plan, an owner or operator may apply to  
102.9 the commissioner to exclude organic and inorganic condensable particulate matter from a  
102.10 performance test for PM-10. The ~~commissioner shall approve the exclusion if the owner~~  
102.11 or operator ~~demonstrates~~ must demonstrate:

102.12 (1) through previous performance test results that the emissions unit is not  
102.13 a source of organic or inorganic condensable particulate matter emissions; or

102.14 (2) that an exception in Method 202, section 1.4(h), as amended, applies.

102.15 Subp. 4a. **PM-2.5 determination.** The owner or operator must conduct PM-2.5  
102.16 emission tests as required in this subpart.

102.17 A. Unless the commissioner has approved an equivalent method, the owner or  
102.18 operator must use Method 201A, Code of Federal Regulations, title 40, part 51, Appendix  
102.19 M, as amended, and Method 202, Code of Federal Regulations, title 40, part 51, Appendix  
102.20 M, as amended.

102.21 B. The owner or operator must report:

102.22 (1) the results for filterable, organic condensable, and inorganic  
102.23 condensable PM-2.5 separately; and

102.24 (2) the sum of filterable, organic condensable, and inorganic condensable  
102.25 PM-2.5.

103.1 C. An emission facility's compliance status is based on a comparison of the sum  
103.2 of filterable, organic condensable, and inorganic condensable to the applicable PM-2.5  
103.3 limit, unless otherwise required under chapter 7011.

103.4 D. When submitting a proposed test plan, an owner or operator may apply to  
103.5 the commissioner to exclude organic and inorganic condensable particulate matter from a  
103.6 performance test for PM-2.5. The ~~commissioner shall approve the exclusion if the owner~~  
103.7 or operator ~~demonstrates~~ must demonstrate:

103.8 (1) through previous performance test results that the emissions unit is not  
103.9 a source of organic or inorganic condensable particulate matter emissions; or

103.10 (2) that an exception in Method 202, section 1.4(h), as amended, applies.

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

103.12 **7019.3020 CALCULATION OF ACTUAL EMISSIONS FOR EMISSION**  
103.13 **INVENTORY.**

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

103.15 C. Owners or operators of emission reporting facilities that hold an air emission  
103.16 permit under part 7007.1115, registration permit option A, must report actual emissions  
103.17 calculated for the calendar year for which emissions are being reported in a format  
103.18 specified by the commissioner.

103.19 D. All owners or operators of emission reporting facilities which have obtained  
103.20 an air emission permit under part 7007.1125, registration permit option C, shall report the  
103.21 quantity of each fuel purchased or used (whichever was stated in the facility's registration  
103.22 permit application) in the year for which emissions are being calculated. The report shall  
103.23 apportion the quantity of fuel burned with the type of combustion unit (indirect heating  
103.24 units or internal combustion engines) in which it was burned. The owner or operator shall  
103.25 report the quantity of VOC-containing materials purchased or used (whichever is stated

104.1 in the facility's registration permit application) in the year for which emissions are being  
104.2 calculated. The owners or operators reporting VOC-containing materials purchases or  
104.3 usage shall also report the weight factor (WF) of the VOC in the materials (weight of  
104.4 VOC per weight of VOC-containing materials) and the density of the materials. The  
104.5 actual emissions shall be calculated by the commissioner.

104.6           E. All owners or operators of emission reporting facilities which have obtained  
104.7 an air emission permit under part 7007.1130, registration permit option D, shall report the  
104.8 actual emissions calculated for purposes of compliance demonstration required in part  
104.9 7007.1130, subpart 3, item E, for the calendar year for which emissions are being reported  
104.10 in a format specified by the commissioner.

104.11           F. All owners or operators of emission reporting facilities which have obtained  
104.12 an air emission permit under parts 7007.1140 to 7007.1148, capped permit, shall report the  
104.13 actual emissions calculated for purposes of compliance demonstration required in part  
104.14 7007.1146, subpart 2, item H, for the calendar year for which emissions are being reported  
104.15 for all emission units in a format specified by the commissioner.

104.16           G. All owners or operators of an emission reporting facility submitting an  
104.17 emission inventory based in whole, or in part, on a material balance calculation shall  
104.18 submit a sample material balance calculation with the emission inventory. Such facilities  
104.19 shall also maintain a record of the material safety data sheets or vendor certification of  
104.20 the VOC, mercury, or sulfur content of the material for each material or fuel used and  
104.21 the material balance calculations for a period of five years after the date of submittal of  
104.22 the emission inventory.

104.23           H. The emission inventory may be based on the use of control equipment only  
104.24 if the use of the specific control equipment is required under conditions of a permit or  
104.25 applicable requirement as defined in part 7007.0100, subpart 6b, or is included in a  
104.26 notification received by the agency under part 7007.1150, item C. This item applies upon



105.1 issuance under chapter 7007 of a registration, state, capped, general, or part 70 permit to a  
105.2 stationary source but no earlier than the date three years after EPA grants full program  
105.3 approval of the agency's permit program under title 5 of the Clean Air Act.

105.4 **7030.0010 INCORPORATION BY REFERENCE.**

105.5 For the purpose of chapter 7030, American National Standards Institute, Specification  
105.6 for Sound Level Meters, S1.4-1983 is incorporated by reference. This publication is  
105.7 available from the American National Standards Institute, 1430 Broadway, New York, N.Y.  
105.8 10018 and can be found at: the offices of the Minnesota Pollution Control Agency, 520  
105.9 Lafayette Road North, Saint Paul, Minnesota 55155; the Government Documents Section,  
105.10 Room 409, Wilson Library, University of Minnesota, 309 19th Avenue South, Minneapolis,  
105.11 Minnesota 55454; and the State of Minnesota Law Library, 25 Rev. Dr. Martin Luther King  
105.12 Jr. Blvd., Saint Paul, Minnesota 55155. This document is not subject to frequent change.

105.13 The Federal Highway Administration publication, Sound Procedures for Measuring  
105.14 Highway Noise: Final Report, FHWA-DP-45-1R (August 1981) is incorporated  
105.15 by reference. This publication is available from the United States Department of  
105.16 Transportation, Federal Highway Administration, 1000 North Globe Road, Arlington,  
105.17 Virginia 22201 and can be found at: the offices of the Minnesota Pollution Control  
105.18 Agency, 520 Lafayette Road North, Saint Paul, Minnesota 55155; the Government  
105.19 Documents Section, Room 409, Wilson Library, University of Minnesota, 309 19th  
105.20 Avenue South, Minneapolis, Minnesota 55454; and the State of Minnesota Law Library,  
105.21 25 Rev. Dr. Martin Luther King Jr. Blvd., Saint Paul, Minnesota 55155. This document is  
105.22 not subject to frequent change.

105.23 **7030.0050 NOISE AREA CLASSIFICATION.**

105.24 [For text of subp 1, see M.R.]

105.25 Subp. 2. **Noise area classifications.** The noise area classifications and the activities  
105.26 included in each classification are listed below:

106.1	Noise Area	
106.2	Classification	Land Use Activities
106.3	1	Household Units (includes farm houses)
106.4		Hotels, motels, or other overnight lodging
106.5		Mobile home parks or courts
106.6		Other residential units
106.7		Motion picture production
106.8		Medical and other health services
106.9		Correctional institutions
106.10		Educational services
106.11		Religious activities
106.12		Cultural activities and nature exhibitions
106.13		Entertainment assembly
106.14		Camping and picnicking areas (designated)
106.15		Resorts and group camps
106.16		Other cultural, entertainment, and recreational activities.
106.17	2	Railroad terminals (passenger and freight)
106.18		Rapid rail transit and street railway passenger terminals
106.19		Bus passenger terminals (intercity and local)
106.20		Other motor vehicle transportation
106.21		Airport and flying field terminals (passenger and freight)
106.22		Marine terminals (passenger and freight)
106.23		Automobile parking
106.24		Transportation services and arrangements
106.25		Wholesale trade
106.26		Retail trade – including restaurants and bars
106.27		Finance, insurance, and real estate services
106.28		Personal services
106.29		Business, legal, or other professional services
106.30		Repair services
106.31		Contract construction services

- 107.1 Governmental services (except correctional institutions)
- 107.2 Miscellaneous services (except religious activities)
- 107.3 Public assembly (except entertainment assembly and race tracks)
- 107.4 Amusements (except fairgrounds and amusement parks)
- 107.5 Recreational activities (except designated camping and picnicking areas)
- 107.6 Parks
- 107.7 3 Manufacturing
- 107.8 Transportation (except passenger terminals)
- 107.9 Highway and street right-of-way
- 107.10 Communication
- 107.11 Utilities
- 107.12 Race tracks
- 107.13 Fairgrounds and amusement parks
- 107.14 Agricultural and related activities
- 107.15 Forestry activities and related services (including commercial forest
- 107.16 land, timber production, and other related activities)
- 107.17 Fishing activities and related services
- 107.18 Mining activities and related services
- 107.19 Other resource production and extraction
- 107.20 All other activities not otherwise listed.
- 107.21 4 Undeveloped and unused land area
- 107.22 Noncommercial forest development
- 107.23 Water areas
- 107.24 Vacant floor area
- 107.25 Under construction

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

107.27 **RENUMBERING AND RELETTERING.** In each part of Minnesota Rules referred to  
107.28 in column A, the reference in column B is deleted and the reference in column C is inserted.

108.1	Column A	Column B	Column C
108.2	<del>7007.0150, subp. 5</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.3	7007.0325, subp. 2	7019.3020, items B, C, and D	7019.3020, items B, D, and E
108.4	7007.0325, subp. 2	7019.3020, item E	7019.3020, item F
108.5	7007.0800, subp. 6	7007.0500, subp. 2, item K,	7007.0500, subp. 2, item K,
108.6		subitem (4)	subitem (5)
108.7	<del>7007.0800, subp. 10</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.8	<del>7007.1300, subp. 2</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.9	<del>7007.1400, subp. 1</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.10	<del>7007.1500, subp. 1</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.11	<del>7007.1750</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.12	<del>7008.2000</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.13	<del>7017.0100, subp. 1</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.14	<del>7017.2005, subp. 1a</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.15	<del>7019.1000, subp. 6</del>	<del>7007.0100, subp. 7</del>	<del>7007.0100, subp. 6a</del>
108.16	<b>REPEALER.</b> Minnesota Rules, parts 7007.0325; 7009.0070; 7011.0725; 7011.1280,		
108.17	subpart 8; 7011.1400, subpart 12; 7011.1415; 7017.1080, subpart 3; 7017.1120, subpart 2;		
108.18	7017.1170, subparts 1, 4, and 5; 7017.1210; 7017.2001, subpart 2; and 7017.2018, are		
108.19	repealed.		