AIR EMISSION PERMIT NO. 10900030 – 003

Major Amendment

IS ISSUED TO

Mayo Foundation

MAYO WASTE MANAGEMENT FACILITY
7123 LC Drive Southwest
Rochester, Olmsted County, MN 55902

The emission units, control equipment and emission stacks at the stationary source authorized in this permit amendment are as described below in the Permit Applications Table.

This permit amendment supersedes Air Emission Permit No. 10900030 - 002 and authorizes the Permittee to operate and modify the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the State Implementation Plan under 40 CFR § 52.1220 and as such are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: Federal; Part 70/True Minor for NSR
Operating Permit Issue Date: 09/20/2005
Major Amendment Issue Date: February 7, 2012
Expiration Date: 09/20/2010 – Title I Conditions do not expire.

Steven S. Pelk

for Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for Paul W. Aasen
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit	12/13/1995, updated 9/14/2000, 3/31/2003 and 4/28/2005	001
Administrative Amendment	5/8/2009	002
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- **Appendix 3: Insignificant Activities**
- **Appendix 4: Approval of Variance From Minnesota's Waste Combustor Rules**

NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION

PERMIT ACTION 001: Total Facility Operating Permit

The Mayo Foundation operates a medical waste incinerator unit at the Mayo Waste Management Facility in Rochester, Minnesota. The facility is a two-level, 26,700 square foot building housing the medical waste incinerator (EU001), a 200 pound per hour pathological waste incinerator (EU003), and a generator (EU002). The operating capacity of the Incinerator (EU001) is 2,200 pounds per hour of municipal solid waste and red-bag hospital waste. Waste processed at the facility consists primarily of general waste and infectious waste generated from healthcare, medical research and medical education activities at Mayo's Rochester facilities. Infectious and pathological waste from medical waste generators in Olmsted and Dodge Counties are also incinerated.

The incinerator was originally classified as a Class III Waste Combustor under Minn. R. 7011.1201, subp. 15 when it began operating in 1994 based on a capacity of 15 million Btu's per hour (MMBtu's/hr) and had been permitted as a Class III in all subsequent permits. However, information in the Title V permit application indicated that the Incinerator was capable of operating above the operating limit for Class III waste combustors. Engineering data from the manufacturer of the Incinerator has been used to re-rate the Incinerator to 16.25 MMBtu's/hr and the classification was changed to a Class II incinerator.

The Permittee was granted a variance from Minn. R. 7011.1260, subp. 3.C., which requires continuous monitoring of Sulfur Dioxide (SO_2) from the combustion unit. The Permittee was not required to have a continuous SO_2 monitor for its combustion unit as a Class III unit and under the variance they do not have to install one. In the future, the incinerator will be subject to 40 CFR pt. 62, subp. HHH, Federal Plan Requirements for Hospital/Medical/Infectious Waste Incinerators Constructed On or Before June 20, 1996. The Federal Plan Requirements include an SO_2 limit but do not include a requirement for continuous monitoring of SO_2.

The wastes handled by the incinerator exclude significant volumes of paper, cardboard, plastic, aluminum, glass, food, metal, and electronic wastes recovered in Mayo's recycling program. Air pollution control for the medical waste incinerator (EU001) consists of a high efficiency wet scrubbing system and a wet Electrostatic Precipitator (ESP). Under normal operation, all general and medical waste is processed through the incinerator. Tissues and animals from clinical research activities are processed in the pathological incinerator (EU003).

The high efficiency wet scrubber system consists of: a quencher; a condenser/absorber; a venturi or rotary atomizer for particulate removal; a caustic system for pH control and an induced draft fan. Emissions are monitored for opacity, oxygen and carbon monoxide. The pressure drop across the scrubber, the scrubber liquor flow rate and the scrubber liquor pH will be continuously monitored. Individual waste load weights are automatically recorded via an electronic scale system.

AMENDMENT DESCRIPTIONS

PERMIT ACTION 002: Administrative Amendment

This administrative amendment authorizes a 120 day extension for performance testing for EU 001 for the following pollutants: particulate matter (PM), dioxins/furans (PCDD/PCDF), hydrochloric acid (HCl), sulfur dioxide (SO_2), nitrogen oxides (NO_X), lead, and cadmium. The performance tests were originally due June 21, 2009, however, EU 001 was shut down for a period of time due to installation of additional control equipment. The due date for this test is now October 19, 2009. After this test, the original test frequency, based on the June 21, 2009, due date, is reestablished.

PERMIT ACTION 003: Major Amendment

The change being authorized by this major amendment is the addition of a wet electrostatic precipitator for the incinerator (EU001). The facility has been in compliance with their permit limits with the use of the existing scrubber system (CE004). According to facility personnel, the wet ESP (CE005) has been installed to add an extra level of assurance for compliance with the limits and in anticipation of more stringent limits that are expected through EPAs revision of 40 CFR pt. 62, Subp. HHH: Federal Plan Requirements for Hospital/Medical/Infectious Waste Incinerators constructed on or before June 20, 1996. The purpose of this major amendment is to allow the use of the wet ESP for regulatory purposes (i.e., stack testing, emissions inventory or other). The addition of the wet ESP results in emission reductions for particulate matter (PM), particulate matter less than 10 microns (PM_{10}), and particulate matter less than 2.5 microns ($PM_{2.5}$).

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name. Mayo Waste Management Facility

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Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: **Total Facility**

What to do	Why to do it
SOURCE-SPECIFIC REQUIREMENTS	hdr
Permit Appendices. This permit contains four appendices as listed in the permit Table of Contents The Permittee shall comply with all requirements contained in the appendices.	Minn R 7007 0800, subp 2
Comply with Fugitive Emission Control Plan: The Permittee shall follow the actions and recordkeeping specified in the Plan. The Plan may be amended by the Permittee with the Commissioner's approval. If the Commissioner determines the Permittee is out of compliance with Minn R 7011 0150 or the Fugitive Emission Control Plan, then the Permittee may be required to amend the Plan and/or to install and operate particulate matter ambient monitors as requested by the Commissioner.	Minn Stat Section 116 07, subd 4a, Minn. R. 7007.0100, Minn R 7007 0800, subp 2; Minn R 7011 0150, Minn R 7009 0020
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt 50, and the Minnesota Ambient Air Quality Standards, Minn R 7009 0010 to 7009 0080 Compliance shall be demonstrated upon written request by the MPCA	40 CFR pt 50, Minn Stat Section 116 07, subds 4a & 9, Minn R 7007.0100, subp 7(A), 7(L), & 7(M), Minn R 7007 0800, subps 1, 2 & 4, Minn R 7009 0010-7009 0080
Circumvention Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011 0020
Air Pollution Control Equipment Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007 0800, subp 2, Minn R 7007 0800, subp 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation	Minn R. 7007.0800, subps 14 and 16(J)
Operation Changes In any shutdown, breakdown, or deviation covered by Minn R 7019.1000 subp 1, 2, and/or 3 the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate	Minn R. 7019.1000, subp 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn R 7011.0150:	Minn R 7011.0150
Noise The Permittee shall comply with the noise standards set forth in Minn R 7030 0010 to 7030 0080 at all times during the operation of any emission units This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act	Minn R. 7030 0010 - 7030 0080
Inspections The Permittee shall comply with the inspection procedures and requirements as found in Minn R. 7007 0800, subp 9(A)	Minn R 7007 0800, subp 9(A)
The Permittee shall comply with the General Conditions listed in Minn R 7007.0800, subp 16.	Minn R 7007 0800, subp 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn R ch. 7017 unless otherwise noted in Tables A and/or B	Minn R ch 7017

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Performance Test Notifications and Submittals Performance Tests are due as outlined in Tables A and B of the permit See Table B for additional testing requirements Performance Test Notification (written). due 30 days before each Performance Test Performance Test Plan due 30 days before each Performance Test Performance Test Pre-test Meeting due 7 days before each Performance Test Performance Test Report. due 45 days after each Performance Test Performance Test Report - Microfiche Copy. due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn R 7017 2018.	Minn. R 7017 2030, subps 1-4, 7017 2018 and Minn. R 7017 2035, subp 1-2
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn R 7017 2025 following formal review of a subsequent performance test on the same unit	Minn R 7017 2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn R. 7007 0800, subp. 4(D)
Operation of Monitoring Equipment Unless otherwise noted in Tables A and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn R 7007 0800, subp 4(D)
RECORDKEEPING	hdr
Recordkeeping Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit Records must conform to the requirements listed in Minn R 7007 0800, subp 5(A)	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping Maintain records describing any insignificant modifications (as required by Minn R 7007 1250, subp 3) or changes contravening permit terms (as required by Minn R 7007 1350 subp 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn R 7007 1200 For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years The records may be maintained in either electronic or paper format	Minn. R. 7007 1200, subp. 4
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant If the Permittee does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown However, notification is not required in the circumstances outlined in Items A, B and C of Minn R 7019 1000, subp 3 At the time of notification, the Permittee shall inform the Commissioner of the cause of the shutdown and the estimated duration The Permittee shall notify the Commissioner when the shutdown is over	Minn R 7019 1000, subp 3

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Breakdown Notifications. Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the Permittee However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2 At the time of notification or as soon as possible thereafter, the Permittee shall inform the Commissioner of the cause of the breakdown and the estimated duration. The Permittee shall notify the Commissioner when the breakdown is over	Minn R. 7019 1000, subp 2
Notification of Deviations Endangering Human Health or the Environment As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment	Minn. R. 7019.1000, subp 1
Notification of Deviations Endangering Human Health or the Environment Report Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment Include the following information in this written description 1. the cause of the deviation, 2. the exact dates of the period of the deviation, if the deviation has been corrected, 3 whether or not the deviation has been corrected, 4 the anticipated time by which the deviation is expected to be corrected, if not yet corrected, and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation	Minn R 7019 1000, subp 1
Fugitive Emissions Control Plan The Permittee shall submit a fugitive emissions control plan within 60 days of the date of permit issuance for review and approval by the Commissioner. The plan shall identify all fugitive emission sources, primary and contingent control measures, and recordkeeping The Permitee shall follow the actions and recordkeeping specified in the control plan The plan may be amended by the Permittee with the Commissioner's approval	Minn. Stat. Section 116 07, subd. 4a, Minn. R. 7007.0800, subp. 2
Application for Permit Amendment. If a permit amendment is needed, submit an application in accordance with the requirements of Minn R 7007 1150 through Minn R 7007 1500 Submittal dates vary, depending on the type of amendment needed	Minn R 7007 1150 - Minn. R 7007 1500
Extension Requests The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn R 7007 1400, subp 1(H)	Minn R 7007 1400, subp 1(H)
Emission Inventory Report due April 1st each year following permit issuance. To be submitted on a form approved by the Commissioner	Minn. R. 7019 3000 - Minn R 7019 3100
Emission Fees due 60 days after receipt of an MPCA bill	Minn R. 7002.0005 - Minn R 7002 0095
PLANS	hdr
The Permittee is required to submit a Risk Management Plan (RMP) under the federal rule, 40 CFR pt 68 A complete RMP has been submitted	40 CFR pt. 68
Prepare (if not completed by the effective date of this permit) and maintain the following plans with the Operating Manual - Security requirements in Minn R 7035 2535, subp 3, - General inspection requirements in Minn R 7035 2535, subp 4, - Household hazardous waste management requirements of Minn R 7035 2535, subp 6; - Emergency preparedness and prevention plans and emergency procedures shall be prepared in accordance with Minn R 7035 2595 and 7035.2605, - Contingency action plans in Minn. R 7035 2615, - Closure plans in Minn. R 7035 2625 and closure procedures in Minn R 7035 2635; - Solid waste transfer facility requirements as required in Minn. R. 7035 2865, and - For waste combustors accepting infectious wastes, infectious waste management requirements of Minn R. 7035 9100 to 7035 9150 This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act	Minn. R 7011 1245, Minn R 7007 0800, subp 2

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The Permittee must prepare and maintain a waste management plan that identifies both the feasibility of, and the approach for, separating certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste The waste management plan developed may address, but is not limited to, paper, cardboard, plastics, glass, battery, or metal recycling, or purchasing recycled or recyclable products In developing the waste management plan, the Permittee must consider the American Hospital Association publication entitled "Ounce of Prevention Waste Reduction Strategies for Health Care Facilities "	40 CFR Section 62 14430 and 40 CFR Section 62.14431
As specified in 40 CFR 62 14463 and 40 CFR 62 14464, the Permittee must submit the waste management plan with the initial report, which is due 60 days after the initial performance test	40 CFR Section 62 14432
Industrial Waste Management Plan The Permittee shall prepare a plan for the management of industrial solid wastes in accordance with part Minn. R 7035 2535, subpart 5, items A and B The plan shall include the contents listed in Minn. R. 7011.1250, subp 2 The Permittee shall modify the industrial waste management plan whenever the management practices or solid wastes identified in the plan have changed The Permittee shall submit the amended plan to the commissioner for approval. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act	Minn R 7011 1250, subps 1 and 3
A waste composition study is required every five years Solid waste composition studies shall be conducted as described in Minn R. 7007 0501, subpart 2	Minn R. 7011 1265, subp. 10; Minn. R 7011.1270 B (4)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name Mayo Waste Management Facility

Permit Number: 10900030 - 003

Subject Item: **EU 001 Joy Incinerator**

Associated Items: CE 004 Wet Scrubber - High Efficiency

CE 005 Wet Electrostatic Precipitator

What to do	Why to do it
GENERAL REQUIREMENTS	hdr
Applicability of Standards. the standards of Minn R 7011 1229, 7011 1240, subp 2 and 7011 1272, subp. 2 apply at all times when waste is being continuously burned The standards do not apply, up to a maximum of three hours, during periods of start-up, shutdown or malfunction provided that no hospital or medical/infectious waste is charged during this period Fugitive emissions standards applicable to the ash conveying system do not apply during periods of maintenance and repair of the ash conveying system The Permittee shall not cause to be emitted into the atmosphere from each waste combustor unit gases in excess of the applicable standards Emissions, except opacity, shall be calculated under standard conditions corrected to seven percent oxygen on a dry volume basis During startup, shutdown, or malfunction periods longer than 3 hours, emissions data cannot be discarded from compliance calculations and all provisions under 40 CFR Section 60.11(d) apply	Minn R 7011 1215, subp. 4, Minn R 7011 1229, 40 CFR 62 14413
A "Class II waste combustor" means that the design capacity for a waste combustor unit is 15 million Btu/hr or more and less than 93.75 million Btu/hr, and that construction of the unit is commenced after September 20, 1994, or modification or reconstruction is commenced after June 19, 1996 On August 23, 2005 the Mayo Foundation was granted a variance from the commence construction date of Minn R 7011 1201, subp 14 The variance is attached to this permit as Appendix 4	Minn. R 7011 1201, subp 14 and Variance approved on August 23, 2005
PART 60 GENERAL REQUIREMENTS	hdr
The 40 CFR Part 60 subpart A general provisions and appendices to Part 60 apply to Part 62, except as follows 40 CFR Section 60 7(a)(3), 60.7(a)(3), and 60.8(a) and where special provisions set forth under the applicable subpart of this Part shall apply instead of any conflicting provisions	40 CFR Section 62 02(b)(2)
At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with 40 CFR Section 60 11(d)	40 CFR Section 60.11(d)
All continuous monitoring systems and monitoring devices required under Part 62, Subpart HHH shall be installed and operational prior to conducting performance tests under 40 CFR Section 60.8	40 CFR Section 60 13(b)
Continuous Operation: Except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems (including CEMS and COMS) shall be in continuous operation during all periods of emission unit operation This includes periods of emission unit start-up, shutdown, or malfunction.	40 CFR Section 60 13(e), Minn R 7017 1090, subp 1
All continuous monitoring systems or monitoring devices required under Part 62, Subpart HHH shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained	40 CFR Section 60 13(f)
EMISSION LIMITS	hdr
Total Particulate Matter. less than or equal to 0 015 grains/dry standard cubic foot Corrected to 7% oxygen	40 CFR Section 62 14411, Table 1 of 40 CFR Part 62, Subpart HHH
Total Particulate Matter. less than or equal to 0.020 grains/dry standard cubic foot corrected to 7% oxygen.	Minn. R. 7011 1229
Front-half Particulate Matter less than or equal to 0 015 grains/dry standard cubic foot corrected to 7% oxygen	Minn. R 7011 1229
Carbon Monoxide: less than or equal to 40 parts per million by volume corrected to 7% oxygen This limit is more stringent than the 50 ppm limit in Minn R 7011 1229.	40 CFR Section 62 14411; Table 1 of 40 CFR Part 62, Subpart HHH; Minn R 7011 1229
PCDD/PCDF (Dioxins) less than or equal to 30 nanograms/DSCM corrected to 7% oxygen	Minn R 7011 1229
PCDD/PCDF (Dioxins). less than or equal to 125 nanograms/DSCM or 2.3 nanograms/DSCM TEQ (toxic equivalency factor), both corrected to 7% oxygen	40 CFR Section 62 14411; Table 1 of 40 CFR Part 62, Subpart HHH

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Hydrochloric acid less than or equal to 100 parts per million corrected to 7% oxygen or 93 percent removal	40 CFR Section 62.14411; Table 1 of 40 CFR Part 62, Subpart HHH
Hydrochloric acid. less than or equal to 25 parts per million corrected to 7% oxygen or 90% removal	Minn R 7011 1229
Mercury. less than or equal to 100 micrograms/DSCM corrected to 7% oxygen, or 85% removal, short-term limit	Minn R 7011 1229
Mercury less than or equal to 60 micrograms/DSCM corrected to 7% oxygen, or 85% removal, long-term limit	Minn. R. 7011 1229
Mercury less than or equal to 550 micrograms/DSCM corrected to 7% oxygen, or 85% removal	40 CFR Section 62.14411, Table 1 of 40 CFR Part 62, Subpart HHH
Sulfur Dioxide less than or equal to 30 parts per million or 80 percent removal, corrected to 7% oxygen	Minn R 7011 1229
Sulfur Dioxide less than or equal to 55 parts per million	40 CFR Section 62.14411; Table 1 of 40 CFR Part 62, Subpart HHH
Nitrogen Oxides less than or equal to 250 parts per million corrected to 7% oxygen	40 CFR Section 62.14411, Table 1 of 40 CFR Part 62, Subpart HHH
Lead: less than or equal to 1 2 milligrams/DSCM (or 0 52 grains/1000 DSCF) corrected to 7% oxygen or 70% reduction	40 CFR Section 62 14411, Table 1 of 40 CFR Part 62, Subpart HHH
Cadmium compounds: less than or equal to 0.16 milligrams/DSCM (or 0.07 grains/1000 DSCF) corrected to 7% oxygen or 65% reduction.	40 CFR Section 62 14411; Table 1 of 40 CFR Part 62, Subpart HHH
Opacity less than or equal to 10 percent opacity using 6-minute Average	Minn R 7011 1229, 40 CFR Section 62 14412
AVERAGING PERIODS	hdr
Averaging Periods For emission limits or operational limits which are monitored continuously, the following averaging periods shall be used. - for particulate matter control device inlet temperature monitoring, four-hour arithmetic block averages calculated from four consecutive one-hour arithmetic averages - for opacity, a 6-minute average calculated using 36 or more data points equally spaced over a 6-minute period. - for carbon monoxide, an arithmetic average of the 1-hour arithmetic average emission rates concentration during each 4-hour daily period measured from midnight to midnight At least 4 data points equally spaced in time shall be used to calculate each 1-hour arithmetic average For CO, each 1-hour average shall be corrected to 7% O2 on an hourly basis using the one-hour arithmetic average of the O2 or CO2 continuous emissions monitoring system	Minn R. 7011.1260, subp 4
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall be limited to incineration of waste from the Mayo Foundation and affiliated corporations, with the exception that medical waste from non-Mayo Foundation generators in Olmsted and Dodge Counties may also be incinerated	Minn R 7007 0800, subp 2
The Permittee shall operate and maintain the control equipment, CE004 and CE005, at all times EU001 is in operation See specific control equipment requirements under CE004 and CE005	Minn R 7007 0800, subps 2 and 16(J)
For the particulate matter control device operating parameters according to Minn R. 7011 1240, subp 2, see the requirements under the Wet Scrubber (CE 004)	Minn R 7011 1240, subp 2
Start-up on waste prohibited. During start-up from a cold furnace, auxiliary fuels shall be used to achieve combustion chamber operating temperature. The use of solid waste solely to provide thermal protection of the grate or hearth during the start-up period when solid waste is not being fed to the grate is not considered to be continuous burning	Minn R. 7011 1240, subp. 3
No Permittee shall operate the waste combustor while combusting solid waste at a level above 110 percent of the maximum demonstrated capacity of the combustion system, except as allowed in Minn R 7011 1240, subp 5.A and Minn R 7011 1240, subp 5 B., without conducting a performance test which demonstrates compliance with the applicable emission limitations at greater than 110 percent of the maximum demonstrated capacity	Minn R 7011.1240, subp 5
During the annual PCDD/PCDF performance test (or during the alternative 2 5 year PCDD/PCDF testing schedule as allowed by Minn R 7011 1270 B (2)), and the two weeks preceding the annual (or 2.5 year) PCDD/PCDF performance test, no waste combustor maximum demonstrated capacity is applicable	Minn R 7011 1240, subp 5 A

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The Commissioner shall waive the maximum demonstrated capacity limit for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions, provided a written notification is submitted to the commissioner 30 days prior to undertaking any of the activities above, with the following information - a description of the proposed project, and the outcome the project is designed to evaluate, - how the project conforms with the activities described in this subpart for which the maximum demonstrated capacity limit can be waived, and - the length of time the project will take to complete	Minn. R. 7011 1240, subp 5 B
Facility Operation Properly maintain and operate air pollution control equipment at all times when the waste combustor is in operation and combusting waste A dumpstack shall only be used at a waste combustor when plant or worker safety would be in jeopardy without its use	Minn. R 7011 1240, subp. 7, Minn R 7007 0800, subp 16(J)
Except as provided in 40 CFR Section 62 14455(f) or (g), if the Hospital/Medical/Infectious Waste Incinerator (HMIWI) is equipped with a wet scrubber and the HMIWI operates above the maximum charge rate (3-hour rolling average for continuous and intermittent HMIWI, daily average for batch HMIWI) and below the minimum secondary chamber temperature (3-hour rolling average) simultaneously, then the Permittee is in violation of the CO emission limit	40 CFR Section 62 14455(d)(1)
Except as provided in 40 Section CFR 62 14455(f) or (g), if the HMIWI is equipped with a wet scrubber and the HMIWI operates above the maximum charge rate (3-hour rolling average for continuous and intermittent HMIWI, daily average for batch HMIWI) and below the minimum pressure drop across the wet scrubber (3-hour rolling average) or below the minimum horsepower or amperage to the system (3- hour rolling average) simultaneously, then the Permittee is in violation of the PM emission limit.	40 CFR Section 62.14455(d)(2)
Except as provided in 40 CFR Section 62.14455(f) or (g), if the HMIWI is equipped with a wet scrubber and the HMIWI operates above the maximum charge rate (3-hour rolling average for continuous and intermittent HMIWI, daily average for batch HMIWI), below the minimum secondary chamber temperature (3-hour rolling average), and below the minimum scrubber liquor flow rate (3-hour rolling average) simultaneously, then the Permittee is in violation of the dioxin/furan emission limit.	40 CFR Section 62 14455(d)(3)
Except as provided in 40 CFR Section 62.14455(f) or (g), if the HMIWI is equipped with a wet scrubber and the HMIWI operates above the maximum charge rate (3-hour rolling average for continuous and intermittent HMIWI, daily average for batch HMIWI) and below the minimum scrubber liquor pH (3-hour rolling average) simultaneously, then the Permittee is in violation of the HCl emission limit	40 CFR Section 62 14455(d)(4)
Except as provided in 40 CFR Section 62 14455(f) or (g), if the HMIWI is equipped with a wet scrubber and the HMIWI operates above the maximum flue gas temperature (3-hour rolling average) and above the maximum charge rate (3-hour rolling average for continuous and intermittent HMIWI, daily average for batch HMIWI) simultaneously, then the Permittee is in violation of the Hg emission limit.	40 CFR Section 62 14455(d)(5)
Except as provided in 40 CFR Section 62 14455(f) or (g), if the HMIWI is equipped with a wet scrubber and the HMIWI uses the bypass stack (except during startup, shutdown, or malfunction), then the Permittee is in violation of the PM, dioxin/furan, HCl, Pb, Cd, and Hg emission limits	40 CFR Section 62 14455(d)(6)
OPERATOR TRAINING & CERTIFICATION	hdr
The Permittee must have a fully trained and qualified Hospital/Medical/Infectious Waste Incinerator (HMIWI) operator pursuant to 40 CFR Part 62, either at the facility or able to be at the facility within 1 hour The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators	40 CFR Section 62 14420
The Permittee can obtain training and qualification through a State-approved program, or, if there are no State-approved training and qualification programs available or if the Permittee does not want to participate in a State-approved program, then the Permittee must complete a training course that includes the requirements in 40 CFR Section 62 14422 and satisfy the qualification requirements in 40 CFR Section 62.14423	40 CFR Section 62 14421
Presence of certified operator For Class II waste combustors, either a chief facility operator or shift supervisor who holds a certificate as described in Minn R 7011 1281, subp 1, shall be present at the waste management facility at all times when waste is being combusted.	Minn R 7011 1240, subp 1 A

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A "fully certified operator" means a person who has obtained "certified municipal waste combustor examiner" certification as described in Minn. R 7011 1282, a person who has obtained both "provisional certification" and "operator certification: according to ASME QRO-1-1994; or a person who is a "fully certified operator" as described in Minn R 7011 1284.	Minn R. 7011.1281
The Commissioner shall certify a person provided the person can demonstrate the completion of ASME provisional operator certification as described in Standard for the Qualification and Certification of Resource Recovery Facility Operators, American Society of Mechanical Engineers QRO-1-1994 for chief facility operators and shift supervisors of municipal waste combustors, or to complete the coursework and examination program described in Minn. R 7011.1280, subp 3 B	Minn R 7011.1280, subp. 1
The chief facility operator and shift supervisors shall be certified through the process established in Minn R 7011.1280	Minn. R. 7011 1280, subp 2
To be certified, a person must demonstrate the skill, knowledge, and experience necessary to operate a waste combustor, by meeting the criteria below Persons who possess a Minnesota Department of Labor and Industry boiler license of at least second class engineer, Grade B, shall. - have one year of experience operating a steam generation plant or Class I, II, III, A, C, or D waste combustor at the licensure level of at least second class engineer, Grade B, and complete at least 24 hours of training approved by the commissioner which are designed to ensure competency to operate a Class I, II, III, A, C, or D waste combustor, - complete the certification process described in Minn R. 7011.1280, subp 4; and - pass the examination described in Minn R. 7011.1280, subp 5 (continued below)	Minn R 7011.1280, subp 3
(continued) Persons who do not meet the qualifications of Minn. R 7011.1280, subp 3 B (1)(a), shall. - have three years of experience operating a Class I, II, III, A, C, or D waste combustor or in power generation and complete at least 24 hours of training approved by the Commissioner which are designed to ensure competency to operate a Class I, II, III, A, C, or D waste combustor, - complete the certification process described in Minn. R 7011 1280, subp 4, and - pass the examination described in Minn. R 7011 1280, subp 5	Minn R. 7011.1280, subp 3
The Permittee shall establish a program to review the plant-specific operating manual with people whose responsibilities affect the operation of the waste combustor Initial review of the operating manual shall be completed prior to assumption of any job related activities affecting air emissions	Minn R 7011 1275, subp 1
Develop and maintain the Operating Manual in accordance with Minn R 7011.1275, subp 3, items A through O (items listed below) and update the manual following each performance test to include operational changes resulting from emissions performance testing results. Include the revision dates within the Operating Manual and store the Operating Manual in a location easily accessed by staff	Minn R. 7011 1275, subp. 3, 40 CFR Section 62 14424
The Permittee shall develop and update on a yearly basis a site specific operating manual that shall, at a minimum, address the following elements of waste combustor unit operation - a summary of the applicable state rules and federal regulations to the activities described in the facility's air emissions permit, - a description of basic combustion theory applicable to the facility's waste combustor unit, - procedures for receiving, handling, and feeding solid waste, - waste combustor unit start-up, shutdown, and malfunction procedures, - procedures for maintaining proper combustion air levels, - procedures for operating the waste combustor within the standards established in Minn R 7011 1201 to 7011 1290, - procedures for responding to periodic upset or off-specification conditions; - procedures for minimizing particulate matter carryover, - procedures for monitoring the degree of solid waste burnout, - procedures for handling ash, (continued below)	Minn. R. 7011.1275, subp. 3

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(continued) - procedures for monitoring waste combustor emissions, - procedures for reporting and recordkeeping, - timetables and procedures for routine inspection and maintenance of equipment affecting air emissions; - procedures for activating communications and alarm systems, and - procedures to implement the facility's industrial waste management plan The operating manual shall be kept in a location easily accessed by the personnel described in Minn R 7011 1275, subp 2	Minn R 7011 1275, subp 3 (continued)
Training Program: Persons without waste combustor or boiler operation experience must work under the direct supervision of a certified operator or a certified operator's designee for 40 hours before assuming job-related activities affecting air emissions	Minn R 7011 1275, subp 1(C)(1)
Training Program: The Permittee will implement a training program, based on the Operating Manual, designed to maintain compliance with this permit, Minn. Rules and federal regulations Individual training must be specific to the position held Waste combustor personnel who have responsibilities which affect the operation of the waste combustor must be trained in the operation of the facility These personnel include, but are not limited to. - chief facility operators, - shift supervisors, - control room personnel, - ash handlers, - maintenance personnel, and - load handlers (continued below)	Minn R. 7011 1275, subps. 1 and 2
Training Program: (continued) The Permittee will - Implement the required training, - Identify all people described above who must be trained, - Include a separate page for each of these people in the Operating Record, - Report the names of those who have been trained and the type of training received in the Annual Report following training as required under Minn R 7011 1285, subp 2	Minn. R. 7011 1275, subps 1 and 2
Certified Operator The Permitee shall - Maintain at the facility a record of the names of all certified personnel This record shall contain the exam dates, the content of the exam, the full name of the certified individual, the examiner's signature and the certification statement in Minn R 7011 1284, subp 3 - Maintain at the facility a record of the names of all personnel who have obtained provisional certification by ASME The Permittee shall allow the commissioner and/or administrator to review all records related to the certification of operators including the facility's program for examination and certification of operators, the record required in Minn R. 7011 1284, subp 3, and the content and results of an individual's exam	Minn R 7011 1284, subps 3 and 3a
TESTING REQUIREMENTS	hdr
The Permittee must determine compliance with the opacity limit by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in 40 CFR Section 62.14452	40 CFR Section 62 14451(b)(1)
Determine compliance with the PM, CO, and HCl emission limits by conducting an annual performance test (within 12 months after the previous test) using the procedures and methods listed in 40 CFR 62.14452 If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant the Permittee may forego a performance test for that pollutant for the next 2 years. At a minimum, the Permittee must conduct a performance test for PM, CO, and HCl every third year (within 36 months after the previous test) If a performance test conducted every third year shows compliance with the emission limit for a pollutant the Permittee may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emission limit, the Permittee must conduct a performance test for that pollutant annually until all annual performance tests over a 3-year period indicate compliance with the emission limit	40 CFR Section 62 14451(b)(2)

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Performance Test due before end of each year starting 07/01/2003 to measure PM, PCDD/PCDF, SO2, NOx, HCl, Pb, and Cd A year is defined as 12 months The Permittee shall conduct performance tests once annually except as required by Minn R 7011.1270 B(3) The most recent performance test was August 12-12, 2009. After the 2009 test, the original test schedule is reestablished, with the next test due either 12 months or 30 months after June 21, 2009 as described in Table A.	Minn R 7011 1270 B(2)
(continued) If three annual performance tests for a three year period show compliance with the standards in Minn R 7011 1225, the Permittee may continue to conduct annual testing, or may choose to conduct performance tests every 2-1/2 years, except as required by Minn. R. 7011 1270 B(3) At a minimum, a performance test shall shall be conducted every 2-1/2 years, but no more than 30 months following the previous compliance test If a performance test indicates noncompliance with the applicable standards, the Permittee shall resume annual testing for 3 years for that pollutant for which noncompliance was demonstrated If three annual performance tests for the 3 year period show compliance with the standards in Minn. R. 7011 1229, the Permittee may again conduct performance testing every 2-1/2 years	Minn R 7011 1270 B(2) (continued)
Performance tests shall be conducted on waste combustors to determine the emission concentrations for lead, cadmium, mercury, and any other air contaminant for which an emission limitation applies to the waste combustor, except for opacity and those contaminants for which compliance is demonstrated by the use of a continuous monitor	Minn R 7011 1265, subp 5
All performance tests must consist of a minimum of three test runs conducted under representative operating conditions when conducting performance tests to determine compliance with the emission limits.	40 CFR Section 62 14452(a), Minn. R. 7017 2020, subp 5
The minimum sample time must be 1 hour per test run unless otherwise indicated in 40 CFR 62.14452 when conducting performance tests to determine compliance with the emission limits	40 CFR Section 62.14452(b)
The Permittee must use EPA Reference Method 1 of 40 CFR Part 60, appendix A to select the sampling location and number of traverse points when conducting performance tests to determine compliance with the emission limits	40 CFR Section 62.14452(c)
The Permittee must use EPA Reference Method 3, 3A, or 3B of 40 CFR part 60, appendix A for gas composition analysis, including measurement of oxygen concentration when conducting performance tests to determine compliance with the emission limits. The Permittee must use EPA Reference Method 3, 3A, or 3B of 40 CFR Part 60, appendix A simultaneously with each reference method	40 CFR Section 62 14452(d), Minn R 7011 1265, subp. 4b
The Permittee must adjust pollutant concentrations to 7 percent oxygen using the equation in 40 CFR Section 62 14452(e) when conducting performance tests to determine compliance with the emission limits	40 CFR Section 62.14452(e)
Except as provided in 40 CFR Section 62 14452(l), the Permittee must use EPA Reference Method 5 or 29 of 40 CFR part 60, appendix A to measure particulate matter emissions when conducting performance tests to determine compliance with the emission limits of 40 CFR Section 62 14411.	40 CFR Section 62 14452(f)
Except as provided in 40 CFR Section 62 14452(l), the Permittee must use EPA Reference Method 9 of 40 CFR Part 60, appendix A to measure stack opacity	40 CFR Section 62 14452(g); Minn. R 7011 1265, subp 2.B
Except as provided in 40 CFR Section 62 14452(l), the Permittee must use EPA Reference Method 10 or 10B of 40 CFR part 60, appendix A to measure the CO emissions when conducting performance tests to determine compliance with the emission limits	40 CFR Section 62 14452(h)
Except as provided in 40 CFR 62.14452(l), the Permittee must use EPA Reference Method 23 of 40 CFR part 60, appendix A to measure total dioxin/furan emissions when conducting performance tests to determine compliance with the emission limits The minimum sample time must be 4 hours per test run If the Permittee has selected the toxic equivalency standards for dioxin/furans under 40 CFR 62 14411, use the following procedures to determine compliance - Measure the concentration of each dioxin/furan tetra-through octa-congener emitted using EPA Reference Method 23, - For each dioxin/furan congener measured in accordance with 40 CFR 62 14452(i)(1), multiply the congener concentration by its corresponding toxic equivalency factor specified in Table 2 of Subpart HHH - Sum the products calculated in accordance with 40 CFR 62 14452(i)(2) to obtain the total concentration of dioxins/furans emitted in terms of toxic equivalency.	40 CFR Section 62 14452(i); Minn R 7011 1265, subp. 3 B.

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Except as provided in 40 CFR Section 62 14452(l), the Permittee must use EPA Reference Method 26 of 40 CFR Part 60, appendix A to measure HCl emissions when conducting performance tests to determine compliance with the emission limits If the Permittee has selected the percentage reduction standards for HCl under 40 CFR Section 62.14411, compute the percentage reduction in HCl emissions using the formula in 40 CFR Section 62 14452(j)	40 CFR Section 62.14452(j), Minn R. 7011 1265, subp 3.A
Except as provided in 40 CFR Section 62 14452(l), the Permittee must use EPA Reference Method 29 of 40 CFR Part 60, appendix A to measure Pb, Cd, and Hg emissions when conducting performance tests to determine compliance with the emission limits If the Permittee has selected the percentage reduction standards for metals under 40 CFR Section 62 14411, compute the percentage reduction in emissions using the formula in 40 Section CFR 62 14452(k)	40 CFR Section 62 14452(k); Minn R 7011 1265, subp 3 C
If the Permittee is using a continuous emission monitoring system (CEMS) to demonstrate compliance with any of the emission limits under 40 CFR Section 62 14411 or 62 14412, the Permittee must: - Determine compliance with the appropriate emission limit(s) using a 12-hour rolling average, calculated each hour as the average of the previous 12 operating hours (not including startup, shutdown, or malfunction) Performance tests using EPA Reference Methods are not required for pollutants monitored with CEMS. - Operate a CEMS to measure oxygen concentration, adjusting pollutant concentrations to 7 percent oxygen as specified in 40 CFR Section 62 14452(e) - Operate all CEMS in accordance with the applicable procedures under appendices B and F of 40 CFR Part 60.	40 CFR Section 62 14452(l)
Use of the bypass stack during a performance test will invalidate the performance test	40 CFR Section 62 14452(m)
The Permittee shall provide and maintain a schedule for testing the waste combustor ash. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act	Minn R 7007 0801, subp 3.B
The Permittee of a waste combustor required to conduct performance tests for a waste combustor shall use the performance test methods and procedures specified in Minn R. 7017 2001 to 7017 2060 except as modified in Minn R. 7011 1265.	Minn R 7011 1265, subp 1
The Permittee of a waste combustor required to conduct performance tests for particulate matter, sulfur dioxide, or nitrogen oxides shall use test methods as described in Minn R. 7011.1265, subp. 2, subitems A to D	Minn R 7011 1265, subp 2
Part 7011 0725 shall apply to tests for particulate matter, except that for Class II waste combustors, the minimum sample volume shall be 1.7 dscm, and the probe and filter holder heating systems in the sample train shall be set to provide a gas temperature no greater than 160 degrees Celsius, plus or minus 14 degrees Smaller sampling times or sample volumes shall be approved by the Commissioner, when the Commissioner determines that they are necessitated by process variables or other factors An oxygen or carbon dioxide measurement shall be obtained simultaneously with each Method 5 test run for particulate matter Particulate matter emissions, expressed in gr/dscf, shall be corrected to seven percent oxygen by using the formula in Minn R 7011 1265, subp 2 A	Minn. R. 7011 1265, subp 2.A
Total particulate matter emission is the concentration of particulate matter as measured by Minn. R. 7011 0725	Minn R 7011 1265, subp 2 A(1) and (2)
For fugitive ash emissions, 40 CFR Part 60, Appendix A, Method 22, as shall be used The minimum observation time shall be a series of three one-hour observations The observation period shall include times when the facility is transferring ash from the waste combustor unit to the area where ash is stored or loaded into containers or trucks. The average duration of visible emissions per hour shall be calculated from the three one-hour observations The average shall be used to determine compliance with the emission limit	Minn R 7011.1265, subp. 2 D.
The Permittee shall report to the commissioner the operating conditions during performance testing including operating parameters of the air pollution control equipment, flue gas temperatures, air flow rates, and pressure drop across the combustion system.	Minn. R. 7011 1265, subp 6
The Permittee shall conduct a waste composition study every five years	Minn R. 7011.1270 B.(4)
MONITORING REQUIREMENTS	hdr
The Permittee must establish the appropriate maximum and minimum operating parameters, indicated in Subpart HHH, Table 3, as site-specific operating parameters during the initial performance test to determine compliance with the emission limits.	40 CFR Section 62 14453(a)(1)

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The HMIWI must not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in Subpart HHH, Table 3 and measured as 3-hour rolling averages (calculated each hour as the average of the previous 3 operating hours), at all times except during startup, shutdown, malfunction, and performance tests.	40 CFR Section 62 14453(a)(2)
The Permittee must install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed in Table 3 of Subpart HHH such that these devices (or methods) measure and record values for the operating parameters at the frequencies indicated in Table 3 of Subpart HHH at all times except during periods of startup and shutdown For charge rate, the device must measure and record the date, time, and weight of each charge fed to the HMIWI This must be done automatically, meaning that the only intervention from an operator during the process would be to load the charge onto the weighing device. (continued below)	40 CFR Section 62.14454(a)
(continued) Specifically at the Mayo facility the - Maximum flue gas temperature must be measured continuously and recorded, once per minute, - Minimum pressure drop across the wet scrubber or minimum horsepower or amperage to the wet scrubber must be monitored continuously and recorded once per minute; - Minimum scrubber liquor flow rate shall be monitored continuously and recorded once per minute - Minimum scrubber liquor pH must be monitored continuously and recorded once per minute	40 CFR Section 62 14454(a) (continued)
The Permittee must install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack, including the date, time, and duration of such use	40 CFR Section 62 14454(b)
The Permittee must obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair At a minimum, valid monitoring data must be obtained for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that the HMIWI is combusting hospital waste and/or medical/infectious waste	40 CFR Section 62 14454(d), Minn R 7011 1260 5.B
Particulate matter control device temperature monitors The Permittee shall install, calibrate, maintain, and operate at all times temperature monitors that continuously read and record the temperatures of the flue gas at the inlet of each particulate matter control device	Minn R. 7011.1260, subp. 2
The Permittee requested a variance from Minn R 7011 1260, subp 3 C MPCA approved the request as the requirement for continuous monitoring of SO2 is not required in the federal plan and will not be required for this facility when the Minnesota rule is amended The variance is attached to this permit as Appendix 4	Minn R 7011 1260, subp 3 C and Variance approved on August 23, 2005.
Monitoring data shall be obtained for at least 75 percent of the hours per day for 90 percent of the days per calendar quarter that the combustor is operating and combusting materials	Minn R 7011.1260, subp. 5(B)
The Permittee shall use all valid data from the continuous emission monitoring systems in calculating emission concentrations and percent reductions. If CEM data is unavailable, the Permittee shall meet the minimum data requirements using the alternative methods set forth in 40 CFR part 60, Appendix A, Method 10 for CO, Method 9 for opacity, Method 3A or 3B for O2 or CO2.	Minn R. 7011.1260, subp 5(C) and (D)
CEMS Certification Test due 60 days after first Excess Emissions Report This requirement applies to any CEMS which have not previously been certified	Minn R 7017.1050, subp. 1
CEMS Certification Test Plan: due 30 days before CEMS Certification Test	Minn R 7017 1060, subp 1 and 2
CEMS Certification Test Pretest Meeting. due 7 days before CEMS Certification Test.	Minn. R. 7017.1060, subp. 3
CEMS Certification Test Report: due 45 days after CEMS Certification Test	Minn R 7017.1080, subp 1, 2, and 4
CEMS Certification Test Report - Microfiche Copy. due 105 days after CEMS Certification Test	Minn R. 7017.1080, subp 3
CEMS Daily Calibration Drift (CD) Test The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily according to the procedures of 40 CFR Section 60 13 40 CFR pt 60, Appendix F, shall be used to determine out-of-control periods for CEMS	Minn R 7011 1260, subp 5(E), Minn R 7017 1170, subp 3