

# DRAFT

**AIR EMISSION PERMIT NO. 10900030-004**

**Major Amendment**

**IS ISSUED TO**

Mayo Foundation

**MAYO WASTE MANAGEMENT FACILITY**

7123 LC Drive Southwest

Rochester, Olmsted County, Minnesota 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. 10900030-003, 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:** <>

**Expiration Date:** 09/20/2010 – Title I Conditions do not expire

The Permittee may continue to operate this facility after the expiration date of the permit, per the provision under Minn. R. 7007.0450, subp. 3. (Title V Reissuance Application was received 3/23/2010)

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

for John Linc Stine  
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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**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 combustor 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 combustor (EU 001), a 200 pound-per-hour pathological waste combustor (EU 003), and a compression ignition reciprocating internal combustion engine-driven emergency generator (EU002). The EU 001 operating capacity 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.

EU 001 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 Btus per hour (mmBtus/hr) and had been permitted as a Class III waste combustor in subsequent permits. However, information in the Title V permit application indicated EU 001 was capable of operating above the operating limit for Class III waste combustors. Engineering data from the manufacturer of the waste combustor was used to re-rate EU 001 to 16.25 mmBtus/hr. In 2005 Mayo received a variance to the commence construction date for Class II waste combustors, and the classification of EU 001 was changed to a Class II waste combustor.

The Permittee was also granted a variance in 2005 from Minn. R. 7011.1260, subp. 3(C), which requires continuous monitoring of Sulfur Dioxide (SO<sub>2</sub>) from Class II waste combustors. As a result, the Permittee was not required to install and operate a continuous SO<sub>2</sub> monitor for the waste combustor when it was classified as a Class II waste combustor. The waste combustor is also subject to 40 CFR pt. 62, subp. HHH, Federal Plan Requirements for Hospital/Medical/Infectious Waste Combustors Constructed On or Before June 20, 1996. The Federal Plan Requirements impose an SO<sub>2</sub> limit however there are no requirements for continuous monitoring of SO<sub>2</sub>.

The wastes handled by the waste combustor exclude significant volumes of paper, cardboard, plastic, aluminum, glass, food, metal, and electronic wastes recovered in Mayo's recycling program. Under normal operation, all general and medical waste is processed through the waste combustor. Tissues and animals from clinical research activities are processed in the pathological waste combustor (EU003).

EU 001 is controlled by a high efficiency wet scrubber (EU 004), a wet electrostatic precipitator (ESP; CE 005), and a non-selective catalytic reduction (SNCR; CE 006) system that uses urea as the reagent. 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 oxygen and carbon monoxide. Scrubber pressure drop, scrubber liquor flow rate, scrubber liquor pH, and wet ESP secondary voltage and amperage are 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<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), 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 the wet ESP. The due date for this test was changed to October 19, 2009. After this test, the original test frequency, based on the June 21, 2009, due date, was reestablished.

### **PERMIT ACTION 003: Major Amendment**

The change authorized by this major amendment was the addition of the wet ESP (CE 005). The facility has been in compliance with permit limits with the use of the existing scrubber system (CE 004). According to facility personnel, CE 005 was installed to add an extra level of assurance for compliance with the limits and in anticipation of more stringent limits expected through EPA 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 was 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<sub>10</sub>), and particulate matter less than 2.5 microns (PM<sub>2.5</sub>).

### **PERMIT ACTION 004 MAJOR AMENDMENT DESCRIPTION:**

This major amendment adds the SNCR system (CE 006) NO<sub>x</sub> control equipment to the permit. The Permittee installed CE 006 to meet the proposed NO<sub>x</sub> limit (140 ppmv at 7% O<sub>2</sub>) published in the federal register (FR vol. 77, No. 78, pages 24272 – 24299) on April 23, 2012 as part of proposed changes to pt. 62, subp. HHH.

This amendment removes requirements for the Permittee to operate and maintain a continuous opacity monitoring system on SV 001. This amendment also adds applicable (area source) requirements from 40 CFR pt. 63, subp. ZZZZ for EU 002. Finally, this amendment adds an EU 001 Hydrochloric Acid (HCl) limit based on the HCl limit in pt. 62, subp. HHH to restrict total facility HCl emissions to less than the pt. 63 major source threshold.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-1 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**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**

<b>What to do</b>	<b>Why to do it</b>
<b>SOURCE-SPECIFIC REQUIREMENTS</b>	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
<b>OPERATIONAL REQUIREMENTS</b>	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
<b>PERFORMANCE TESTING</b>	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

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-2**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.</p> <p>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</p> <p>The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.</p>	<p>Minn. R. 7017.2030, subps. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2</p>
<p>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.</p>	<p>Minn. R. 7017.2025</p>
<p><b>MONITORING REQUIREMENTS</b></p>	<p>hdr</p>
<p>Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p><b>RECORDKEEPING</b></p>	<p>hdr</p>
<p>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).</p>	<p>Minn. R. 7007.0800, subp. 5(C)</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 5(B)</p>
<p>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. 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.</p>	<p>Minn. R. 7007.1200, subp. 4</p>
<p><b>REPORTING/SUBMITTALS</b></p>	<p>hdr</p>
<p>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.</p> <p>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.</p>	<p>Minn. R. 7019.1000, subp. 3</p>
<p>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.</p> <p>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.</p>	<p>Minn. R. 7019.1000, subp. 2</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-3**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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 Permittee 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. Submit the report 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
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 Section CFR 62.14463 and 40 CFR Section 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



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-4**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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, subp. 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, subp. 2.	Minn. R. 7011.1265, subp. 10; Minn. R. 7011.1270(B)(4)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-5 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item: EU 001 Hospital/Medical/Infectious Waste Incinerator (constructed 1993)**

**Associated Items:** CE 004 Wet Scrubber - High Efficiency  
 CE 005 Wet Electrostatic Precipitator  
 CE 006 Selective Noncatalytic Reduction for NOX  
 SV 001 Incinerator Stack  
 SV 002 Incinerator Bypass Stack

What to do	Why to do it
<b>GENERAL REQUIREMENTS</b>	hdr
<p>Applicability of Standards: Minn. R. 7011.1229, Minn. R. 7011.1240, subp. 2, and Minn. R. 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.</p> <p>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.</p> <p>During startup, shutdown, or malfunction periods longer than three hours, emissions data cannot be discarded from compliance calculations and all provisions under 40 CFR Section 60.11(d) apply.</p>	<p>Minn. R. 7011.1215, subp. 4;  Minn. R. 7011.1229; 40 CFR Section 62.14413</p>
<p>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 Permittee (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.</p>	<p>Minn. R. 7011.1201, subp. 14 and Variance approved on August 23, 2005</p>
<p>EU 001 has a design charge capacity of 2200 pounds per hour and meets the definition of a large hospital/medical/infectious waste incinerator (HMIWI) at 40 CFR Section 62.14490. EU 001 is a continuous HMIWI and is not a batch HMIWI as defined at Section 62.14490.</p>	<p>40 CFR Section 62.14490</p>
<b>PART 60 GENERAL REQUIREMENTS</b>	hdr
<p>The 40 CFR pt. 60, subp. A General Provisions and Appendices to pt. 60 apply to pt. 62, except as follows: 40 CFR Sections 60.7(a)(3), 60.7(a)(3), and 60.8(a) and where special provisions set forth under the applicable subpart of pt. 62 shall apply instead of any conflicting provisions.</p>	<p>40 CFR Section 62.02(b)(2)</p>
<p>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).</p>	<p>40 CFR Section 60.11(d)</p>
<p>All continuous monitoring systems and monitoring devices required under pt. 62, subp. HHH shall be installed and operational prior to conducting performance tests under 40 CFR Section 60.8.</p>	<p>40 CFR Section 60.13(b)</p>
<p>Continuous Operation: Except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, all continuous monitoring systems shall be in continuous operation during all periods of emission unit operation. This includes periods of emission unit start-up, shutdown, or malfunction.</p>	<p>40 CFR Section 60.13(e); Minn. R. 7017.1090, subp. 1</p>
<p>All continuous monitoring systems or monitoring devices required under pt. 62, subp. HHH shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained.</p>	<p>40 CFR Section 60.13(f)</p>
<b>EMISSION LIMITS</b>	hdr
<p>Total Particulate Matter: less than or equal to 0.015 grains/dry standard cubic foot Corrected to 7% oxygen</p>	<p>40 CFR Section 62.14411; Table 1 of 40 CFR pt. 62, subp. HHH</p>
<p>Total Particulate Matter: less than or equal to 0.020 grains/dry standard cubic foot corrected to 7% oxygen.</p>	<p>Minn. R. 7011.1229</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-6** 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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 pt. 62, subp. 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 pt. 62, subp. HHH
Hydrochloric acid: less than or equal to 100 parts per million corrected to 7% oxygen or 93% removal.	40 CFR Section 62.14411; Table 1 of 40 CFR pt. 62, subp. HHH
Hydrochloric acid: less than or equal to 1.83 lbs/hour using 3-hour Average	Title I Condition: to avoid pt. 63 major source threshold
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 pt. 62, subp. HHH
Sulfur Dioxide: less than or equal to 30 parts per million or 80% 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 pt. 62, subp. 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 pt. 62, subp. HHH
Nitrogen Oxides: less than or equal to 140 parts per million by volume at 7% oxygen. This requirement becomes effective as specified at 40 CFR Section 62.14470(a) after the effective date of the pt. 62, subp. HHH revisions proposed on April 23, 2012 in the Federal Register/Vol. 77, No. 78, pages 24272 through 24299.  If the final subp. HHH rule requirement is different than the proposed requirement, the Permittee shall meet the final requirement in pt. 62, subp. HHH.	Minn. R. 7007.0800, subp. 2
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 pt. 62, subp. 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 pt. 62, subp. HHH
Opacity: less than or equal to 10 percent opacity using 6-minute Average	Minn. R. 7011.1229; 40 CFR Section 62.14412
<b>AVERAGING PERIODS</b>	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 carbon monoxide, an arithmetic average of the one-hour arithmetic average emission rates concentration during each four-hour daily period measured from midnight to midnight.  At least four equally spaced in time data points shall be used to calculate each one-hour arithmetic average. For CO, each one-hour average shall be corrected to 7% O <sub>2</sub> on an hourly basis using the one-hour arithmetic average of the O <sub>2</sub> or CO <sub>2</sub> continuous emissions monitoring system.	Minn. R. 7011.1260, subp. 4
<b>OPERATIONAL REQUIREMENTS</b>	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, CE 004, CE 005, and CE 006 at all times EU 001 is in operation. See specific control equipment requirements under CE 004, CE 005, and CE 006.	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

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-7**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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 two and one half year PCDD/PCDF testing schedule as allowed by Minn. R. 7011.1270, item (B)(2)), and the two weeks preceding the annual (or two and one half year) PCDD/PCDF performance test, no waste combustor maximum demonstrated capacity is applicable.	Minn. R. 7011.1240, subp. 5(A)
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 Minn. R. 7011.1240, subp. 5(B) 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 Permittee operates EU 001 above the maximum charge rate (three-hour rolling average) and below the EU 001 minimum secondary chamber temperature (three-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 CFR Section 62.14455(f) or (g), if the Permittee operates EU 001 above the maximum charge rate (three-hour rolling average) and below the minimum pressure drop across the CE 004 wet scrubber (three-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 Permittee operates EU 001 above the maximum charge rate (three-hour rolling average), below the EU 001 minimum secondary chamber temperature (three-hour rolling average), and below the CE 004 minimum scrubber liquor flow rate (three-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 Permittee operates EU 001 above the maximum charge rate (three-hour rolling average) and below the minimum EU 004 scrubber liquor pH (three-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 Permittee operates EU 001 above the maximum EU 001 flue gas temperature (three-hour rolling average) and above the maximum EU 001 charge rate (three-hour rolling average) 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 Permittee uses the SV 002 bypass stack while operating EU 001 (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)
The Permittee may conduct a repeat performance test within 30 days of violation of applicable EU 001 and/or CE 004 operating parameter(s) to demonstrate that EU 001 is not in violation of the applicable emission limit(s). The Permittee must conduct repeat performance tests pursuant to 40 CFR Section 62.14455(f) using the identical operating parameters that indicated a violation under Section 62.14455(b), (c), (d), or (e).	40 CFR Section 62.14455(f)
OPERATOR TRAINING & CERTIFICATION	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-8**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

The Permittee must have a fully trained and qualified Hospital/Medical/Infectious Waste Incinerator (HMIWI) operator pursuant to 40 CFR pt. 62, subp. HHH, either at the facility or able to be at the facility within one 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)
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

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-9**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>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:</p> <ul style="list-style-type: none"> <li>- a summary of the applicable state rules and federal regulations to the activities described in the facility's air emissions permit;</li> <li>- a description of basic combustion theory applicable to the facility's waste combustor unit;</li> <li>- procedures for receiving, handling, and feeding solid waste;</li> <li>- waste combustor unit start-up, shutdown, and malfunction procedures;</li> <li>- procedures for maintaining proper combustion air levels;</li> <li>- procedures for operating the waste combustor within the standards established in Minn. Rs. 7011.1201 to 7011.1290;</li> <li>- procedures for responding to periodic upset or off-specification conditions;</li> <li>- procedures for minimizing particulate matter carryover;</li> <li>- procedures for monitoring the degree of solid waste burnout;</li> </ul> <p>(continued below)</p>	Minn. R. 7011.1275, subp. 3
<p>(continued)</p> <ul style="list-style-type: none"> <li>- procedures for handling ash;</li> <li>- procedures for monitoring waste combustor emissions;</li> <li>- procedures for reporting and recordkeeping;</li> <li>- timetables and procedures for routine inspection and maintenance of equipment affecting air emissions;</li> <li>- procedures for activating communications and alarm systems; and</li> <li>- procedures to implement the facility's industrial waste management plan.</li> </ul> <p>The operating manual shall be kept in a location easily accessed by the personnel described in Minn. R. 7011.1275, subp. 2.</p>	Minn. R. 7011.1275, subp. 3 (continued)
<p>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.</p>	Minn. R. 7011.1275, subp. 1(C)(1)
<p>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:</p> <ul style="list-style-type: none"> <li>- chief facility operators,</li> <li>- shift supervisors,</li> <li>- control room personnel,</li> <li>- ash handlers,</li> <li>- maintenance personnel, and</li> <li>- load handlers.</li> </ul> <p>(continued below)</p>	Minn. R. 7011.1275, subps. 1 and 2
<p>Training Program: (continued)</p> <p>The Permittee will:</p> <ul style="list-style-type: none"> <li>- Implement the required training;</li> <li>- Identify all people described above who must be trained;</li> <li>- Include a separate page for each of these people in the Operating Record;</li> <li>- 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.</li> </ul>	Minn. R. 7011.1275, subps. 1 and 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-10**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>Certified Operator - The Permittee shall:</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Maintain at the facility a record of the names of all personnel who have obtained provisional certification by ASME.</li> </ul> <p>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.</p>	Minn. R. 7011.1284, subps. 3 and 3a
<b>TESTING REQUIREMENTS</b>	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 HCl emission limit by annual performance testing (within 12 months after the previous test) using procedures and methods listed in 40 CFR Section 62.14452. If all three performance tests over a three-year period indicate compliance with the emission limit for a pollutant the Permittee may forego a performance test for that pollutant for the next two years. At a minimum, the Permittee must conduct an HCl performance test 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 two 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 three-year period indicate compliance with the emission limit.	Title I Condition: to avoid pt. 63 major source threshold; 40 CFR Section 62.14451(b)(2)
Determine compliance with PM and CO emission limits by annual performance testing (within 12 months after the previous test) using procedures and methods listed in 40 CFR Section 62.14452. If all three performance tests over a three-year period indicate compliance with the emission limit for a pollutant the Permittee may forego a performance test for that pollutant for the next two years. At a minimum, the Permittee must conduct a performance test for PM and CO 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 two 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 three-year period indicate compliance with the emission limit.	40 CFR Section 62.14451(b)(2)
<p>Performance Test: due before end of each year starting 07/01/2003 to measure PM, PCDD/PCDF, SO<sub>2</sub>, NO<sub>x</sub>, 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).</p> <p>The most recent performance test was August 17, 2010. The next test is due either 12 months or 30 months after August 17, 2010 as described in Table A.</p>	Minn. R. 7011.1270(B)(2)
<p>(continued)</p> <p>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 two and one half years, except as required by Minn. R. 7011.1270(B)(3). At a minimum, a performance test shall be conducted every two and one half 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 three years for that pollutant for which noncompliance was demonstrated. If three annual performance tests for the three year period show compliance with the standards in Minn. R. 7011.1229, the Permittee may again conduct performance testing every two and one half years.</p>	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

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-11**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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 one hour per test run unless otherwise indicated in 40 CFR Section 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 pt. 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 pt. 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 pt. 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 pt. 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 pt. 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 pt. 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 Section 62.14452(l), the Permittee must use EPA Reference Method 23 of 40 CFR pt. 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 four hours per test run. If the Permittee has selected the toxic equivalency standards for dioxin/furans under 40 CFR Section 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 Section 62.14452(i)(1), multiply the congener concentration by its corresponding toxic equivalency factor specified in pt. 62, subp. HHH, Table 2; - Sum the products calculated in accordance with 40 CFR Section 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)
Except as provided in 40 CFR Section 62.14452(l), the Permittee must use EPA Reference Method 26 of 40 CFR pt. 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 pt. 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 CFR Section 62.14452(k).	40 CFR Section 62.14452(k); Minn. R. 7011.1265, subp. 3(C)
The Permittee must use EPA Reference Method 7 or 7E of 40 CFR pt. 60, Appendix A to measure the NO <sub>x</sub> emissions when conducting performance tests to determine compliance with the emission limits.  This requirement becomes effective as specified at 40 CFR Section 62.14470(a) after the effective date of the pt. 62, subp. HHH revisions proposed on April 23, 2012 in the Federal Register/Vol. 77, No. 78, pages 24272 through 24299.  If the final subp. HHH rule requirement is different than the proposed requirement, the Permittee shall meet the final requirement in pt. 62, subp. HHH.	Minn. R. 7007.0800, subp. 2



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-12**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

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 pt. 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. Rs. 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, items A to D.	Minn. R. 7011.1265, subp. 2
Minn. R. 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 pt. 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)
<b>MONITORING REQUIREMENTS</b>	hdr
The Permittee must establish the appropriate maximum and minimum operating parameters, indicated in pt. 62, subp. 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)
The HMIWI must not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in pt. 62, subp. HHH, Table 3 and measured as three-hour rolling averages (calculated each hour as the average of the previous three 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 pt. 62, subp. HHH, Table 3 such that these devices (or methods) measure and record values for the operating parameters at the frequencies indicated in pt. 62, subp. HHH, Table 3 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.	40 CFR Section 62.14454(a)
(continued below)	

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-13**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

(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 SV 002, 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, subp. 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 SO <sub>2</sub> 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 pt. 60, Appendix A, Method 10 for CO; Method 3A or 3B for O <sub>2</sub> or CO <sub>2</sub> , respectively.	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, subps. 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
The span value of the oxygen monitor shall be 25 percent oxygen. The span value of the carbon monoxide monitor shall be 125 percent of the maximum estimated hourly potential carbon monoxide emissions of the waste combustor unit.	Minn. R. 7011.1260, subp. 5(F)
Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test except for quarters in which a RATA was performed. This requirement applies to each CEMS as well as each diluent monitor.	Minn. R. 7011.1260, subp. 5(G); Minn. R. 7007.0800, subp. 2
Cylinder Gas Audit (CGA) Results Summary: due 30 days after end of each calendar quarter following Cylinder Gas Audit.	Minn. R. 7011.1285, subp. 3(G); Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1180, subp. 1
CEMS Relative Accuracy Test Audit (RATA): due before end of each year starting 09/20/2005. Follow the procedure in 40 CFR pt. 60, Appendix F. The RATA shall be conducted during the calendar quarter in which a cylinder gas audit (CGA) is not performed. This requirement applies to each CEMS individually.	Minn. R. 7011.1260, subp. 5(G); Minn. R. 7007.0800, subp. 2
Conduct annual evaluations of your continuous emission monitoring systems no more than 13 months after the previous evaluation was conducted.	

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-14**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

The oxygen monitor shall conform to Performance Specification 3 in 40 CFR pt. 60, Appendix B, as amended, except that section 2.3 shall not apply.	Minn. R. 7011.1260, subp. 5(l)
Relative Accuracy Test Audit (RATA) Notification: Due 30 days before CEMS Relative Accuracy Test Audit (RATA)	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Results Summary: due 30 days after end of the calendar quarter in which the Audit was performed.	Minn. R. 7011.1285, subp. 3(G); Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1180, subp. 3
Exceedances of Continuously Monitored Emissions:  If accurate and valid data results collected from the sulfur dioxide and/or carbon monoxide monitors exceed emission limits, the following procedures shall be followed. - Exceedance shall be reported to the commissioner as soon as reasonably possible. - Appropriate repairs or modifications to return the waste combustor to compliance must be commenced within 72 hours. If compliance cannot be achieved within 72 hours, then the waste combustor shall be shut down. If modifications to return the waste combustor to compliance require the amendment of this permit, the waste combustor shall shut down within 72 hours of the exceedance.  (continued below)	Minn. R. 7011.1260, subp. 7
Exceedances of Continuously Monitored Emissions (continued)  - When repairs or modifications have been completed, the Permittee shall demonstrate to the Commissioner that the waste combustor is in compliance. The waste combustor may be started up after the Permittee has notified the commissioner in writing of the date the Permittee plans to start up the waste combustor and the date that performance testing is scheduled. Notification shall be given at least 10 days in advance of the compliance test date.	Minn. R. 7011.1260, subp. 7 (continued)
RECORDKEEPING	hdr
The Permittee must maintain the following at the facility: - Summary of the applicable standards under 40 CFR pt. 62, subp. HHH; - Description of basic combustion theory applicable to a Hospital/Medical/Infectious Waste Incinerator (HMIWI); - Procedures for receiving, handling, and charging waste; - Procedures for startup, shutdown, and malfunction; - Procedures for maintaining proper combustion air supply levels; - Procedures for operating the HMIWI and associated air pollution control systems within the standards established under subp. HHH; - Procedures for responding to malfunction or conditions that may lead to malfunction; - Procedures for monitoring HMIWI emissions; - Reporting and recordkeeping procedures; and - Procedures for handling ash.	40 CFR Section 62.14424(a)
The Permittee must keep the information listed in 40 CFR Section 62.14424(a) in a readily accessible location for all HMIWI operators. This information, along with records of training, must be available for inspection by the EPA or its delegated enforcement agent upon request.	40 CFR Section 62.14424(b)
The Permittee must establish a program for reviewing the information listed in 40 CFR Section 62.14424 annually with each HMIWI operator as defined in 40 CFR Section 62.14490. The Permittee must conduct the initial review of the information listed in 40 CFR Section 62.14424 prior to assumption of responsibilities affecting HMIWI operation. The Permittee must conduct subsequent reviews of the information listed in 40 CFR Section 62.14424 annually.	40 CFR Section 62.14425
The Permittee must maintain the calendar date of each record.	40 CFR Section 62.14460(a)
The Permittee must maintain Records of the following data:  - Concentrations of any pollutant listed in pt. 62, subp. HHH Table 1 and/or measurements of opacity; - The HMIWI charge dates, times, and weights and hourly charge rates; - Secondary combustion chamber temperatures recorded during each minute of operation; - Liquor flow rate to the wet scrubber inlet during each minute of operation, as applicable; - Pressure drop across the wet scrubber system during each minute of operation, as applicable;  (continued below)	40 CFR Section 62.14460(b)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-15**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

(continued)	40 CFR Section 62.14460(b) (continued)
<ul style="list-style-type: none"> <li>- Temperature at the outlet from the wet scrubber during each minute of operation, as applicable;</li> <li>- The pH at the inlet to the wet scrubber during each minute of operation, as applicable;</li> <li>- Records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 operating days of an inspection or the time frame established by the EPA Administrator or delegated enforcement authority, as applicable;</li> <li>- Records indicating use of the bypass stack, including dates, times, and durations; and</li> <li>- If the Permittee is complying by monitoring site-specific operating parameters under 40 CFR Section 62.14453(b), maintain all operating data collected.</li> </ul>	
The Permittee must maintain records of the identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460(b)(1) through (15) were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.	40 CFR Section 62.14460(c)
The Permittee must maintain records of the identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken.	40 CFR Section 62.14460(d)
The Permittee must maintain records of the identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460 (b)(1) through (15) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.	40 CFR Section 62.14460(e)
The Permittee must maintain records of the results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable.	40 CFR Section 62.14460(f)
<p>Records showing the names of HMIWI operators who have completed review of the documentation in 40 CFR Section 62.14424 as required by 40 CFR Section 62.14425, including the date of the initial review and all subsequent annual reviews;</p> <p>Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training; and</p> <p>Records showing the names of the HMIWI operators who have met the criteria for qualification under 40 CFR Section 62.14423 and the dates of their qualification</p>	40 CFR Section 62.14460(g), (h), and (i); Minn. R. 7011.1275, subp. 4
Records of calibration of any monitoring devices as required under 40 CFR Section 62.14454.	40 CFR Section 62.14460(j)
The Permittee must maintain the records specified under 40 CFR Section 62.14460 for a period of at least 5 years.	40 CFR Section 62.14461
The Permittee must maintain all records specified under 40 CFR Section 62.14460 onsite in either paper copy or computer-readable format, unless an alternative format is approved by the EPA Administrator.	40 CFR Section 62.14462
Recordkeeping: Maintain a file of all measurements, maintenance, reports and records for at least five years including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection.	Minn. R. 7019.0100, subp. 1; Minn. R. 7007.0800, subp. 5(C); 40 CFR Section 60.7(f)
Recordkeeping: The Permittee will maintain a record of continuously measured parameters as specified in Minn. R. 7011.1260, subp. 6.	Minn. R. 7011.1260, subp. 6
<p>The Permittee shall:</p> <ul style="list-style-type: none"> <li>- Keep all records on-site in paper copy or electronic format.</li> <li>- Make all records available for submittal to the Administrator or Commissioner, or for on-site review by the Administrator or Commissioner.</li> </ul>	Minn. R. 7011.1285, subp. 1
Recordkeeping: record in the daily operating record the four-hour arithmetic average gas stream temperature as measured at the wet scrubber inlet during the most recent PCDD/PCDF performance test demonstrating compliance with the PCDD/PCDF emission limits in Minn. R. 7011.1225 and 40 CFR Section 62.14.	Minn. R. 7011.1265, subp. 8; Minn. R. 7011.1240, subp. 2; Minn. R. 7007.0800, subp. 2
The Permittee shall maintain on site for five years after the report is generated, a paper copy of each quarterly report, initial compliance report, and performance test report required under Minn. R. 7011.1285, subps. 3, 5, and 6 respectively.	Minn. R. 7011.1285, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-16**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>Daily Operating Record: The Permittee shall maintain on-site daily records for the operation of the waste combustor. Daily records include such things as the operator log book, operator daily log sheets, trend records, CEMS records, and the daily operating report. The record shall contain:</p> <ul style="list-style-type: none"> <li>- the calendar date;</li> <li>- the hours of operation;</li> <li>- the time when waste begins feeding and the unit load of the steam turbine at the time;</li> <li>- the time the waste feed to the combustion chamber ceases;</li> <li>- the weight of waste combusted;</li> <li>- the weight of waste requiring disposal at a solid waste land disposal facility, including separated noncombustibles, excess waste, and ash;</li> <li>- the amount and description of industrial solid waste received each day, the generator's name, and the method of handling;</li> <li>- the measurements and determination of emissions averages as required in Minn. R. 7011.1260, subp. 6;</li> </ul> <p>(continued below)</p>	<p>Minn. R. 7011.1285; Minn. R. 7017.1130; Minn. R. 7007.0800, subp. 2; 40 CFR Section 62.14454(b)</p>
<p>Daily Operating Record (Continued)</p> <ul style="list-style-type: none"> <li>- results of performance tests conducted on waste combustor units as required in this permit;</li> <li>- instances of dumpstack use including the date, time, duration and the reason for such use;</li> <li>- the time when PM control equipment by-pass begins;</li> <li>- the time when PM control bypass ceases;</li> <li>- the names of persons who have completed initial review or subsequent annual review of the operating manual;</li> <li>- continuous monitoring system records including:</li> <li>- each one-hour emission average recorded by the CEMS;</li> <li>- monitor certification test reports;</li> <li>- excess emissions reports;</li> <li>- cylinder gas audit reports;</li> <li>- calibration error audit reports;</li> <li>- relative accuracy test audits;</li> </ul> <p>(continued below)</p>	<p>Minn. R. 7011.1285; Minn. R. 7017.1130; Minn. R. 7007.0800, subp. 2; 40 CFR Section 62.14454(b)</p>
<p>Daily Operating Record (Continued)</p> <ul style="list-style-type: none"> <li>- linearity check reports;</li> <li>- results of daily calibration drift checks;</li> <li>- log of adjustments made to the CEMS and maintenance performed on the CEMS;</li> <li>- the reasons for exceeding any of the average emission rates, percent reductions, or operating parameters specified under Minn. R. 7011.1260, subp. 6, item C, and a description of corrective actions taken;</li> <li>- reasons for not obtaining the minimum number of hours of sulfur dioxide emissions or operational data (carbon monoxide emissions, steam flow, particulate matter control device temperature) and a description of corrective actions taken.</li> <li>- the date of the calibration of all signal conversion elements associated with steam flow monitoring as required in Minn. R. 7011.1265, subp. 4.</li> </ul>	<p>Minn. R. 7011.1285; Minn. R. 7017.1130; Minn. R. 7007.0800, subp. 2; 40 CFR Section 62.14454(b)</p>
<p>Recordkeeping: The Permittee shall maintain a file of the following CEMS information at the emission facility in a form suitable for inspection for at least five years from the date of each record.</p> <ul style="list-style-type: none"> <li>- all monitoring system information required by an applicable compliance document; and</li> <li>- an up-to-date monitor QA/QC plan.</li> </ul>	<p>Minn. R. 7017.1130</p>
<p>Recordkeeping: The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.</p>	<p>Minn. R. 7007.0800, subp. 2</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-17**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

Recordkeeping, Training and Certification: The Permittee shall keep records of training courses completed and certifications achieved, including:  <ul style="list-style-type: none"> <li>- Names of the chief facility operator, shift supervisors, and control room operators who are provisionally certified by the American Society of Mechanical Engineers.</li> <li>- Dates of the initial provisional certifications.</li> <li>- Documentation showing current provisional certifications.</li> <li>- Names of the chief facility operator, shift supervisors, and control room operators who have completed the EPA or State operator training course.</li> <li>- Dates of completion of the operator training course.</li> <li>- Documentation showing completion of operator training course.</li> <li>- Names of persons who have reviewed the operating manual.</li> <li>- Date of the initial review.</li> <li>- Dates of subsequent annual reviews.</li> </ul>	Minn. R. 7011.1280, subp. 11
REPORTING	hdr
Shutdown or breakdown reporting requirements. The Permittee shall comply with Minn. R. 7019.1000 and Minn. Stat. 116.85.	Minn. R. 7011.1240, subp. 8
The Industrial Solid Waste Management Plan must address how the following additional categories of solid waste will be managed to comply with the requirements of Minn. R. 7035.2535, subp. 5.A, subitems (2) to (4), as well as state whether each of the following solid wastes will be accepted at the facility:  <ul style="list-style-type: none"> <li>- spilled fossil fuels and the sorbents used to collect the spilled fossil fuels;</li> <li>- infectious and pathological wastes;</li> <li>- media contaminated with oil;</li> <li>- problem materials as defined in Minn. Stat., Section 115A.03, subd. 24a; and</li> <li>- any other solid wastes that can be identified that would adversely impact waste combustor operations or result in environmental and health problems if combusted.</li> </ul>	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.	Minn. R. 7011.1250, subp. 3
Quarterly Reports: The report shall contain the following items:  <ul style="list-style-type: none"> <li>- calendar date;</li> <li>- a graphic or tabular presentation of the sulfur dioxide and carbon monoxide emissions, and the maximum waste combustor unit load level and particulate matter control device temperatures as recorded by Minn. R. 7011.1260, subp. 6, item C. The graphs shall be prepared as follows: <ul style="list-style-type: none"> <li>(1) the graph shall represent one operating parameter or pollutant;</li> <li>(2) the applicable limit of the parameter or pollutant shall be indicated on the graph; and</li> <li>(3) data shall be expressed in the same units as the applicable operating parameter or emissions limit;</li> </ul> </li> <li>- instances of dumpstack use;</li> </ul> (continued below)	Minn. R. 7011.1285, subp. 3
Quarterly Reports (Continued):  <ul style="list-style-type: none"> <li>- the identification of operating days when any of the average emission concentrations, percent reductions, or operating parameters specified under Minn. R. 7011.1260, subp 6(C), Minn. R. 7011.1272, subp. 2 exceeded the applicable limits. The report shall include the emission levels recorded during the exceedance, reasons for such exceedances and a description of corrective actions taken;</li> <li>- the identification of operating days for which the minimum number of hours that emission concentrations, percent reductions, or operating parameters specified under Minn. R. 7011.1260, subp. 6(C), or Minn. R. 7011.1272, subp. 2 have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;</li> </ul> (continued below)	Minn. R. 7011.1285, subp. 3 (Continued)
Quarterly Reports (Continued)  <ul style="list-style-type: none"> <li>- the information required in Minn. R. 7011.1285, subp. 2(C), (D), and (E), summarized to reflect quarterly totals;</li> <li>- a compliance certification as required in Minn. R. 7007.0800, subp. 6(C).</li> </ul>	Minn. R. 7011.1285, subp. 3 (Continued)
The Permittee must report the values for the site specific operating parameters established under 40 CFR Section 62.14453 within 60 days following the initial performance test.	40 CFR Section 62.14463(b)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-18**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

The Permittee must report the highest maximum operating parameter and the lowest minimum operating parameter for each parameter recorded for the calendar year as well as the previous year in order to provide a two-year summary of the performance of the incinerator.	40 CFR Section 62.14463(d) and (e)
<p>The Permittee must report any information recorded under 40 CFR Section 62.14460(c) through (e) for the calendar year being reported including:</p> <ul style="list-style-type: none"> <li>- Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460(b)(1) through (15) were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken;</li> <li>- Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken;</li> <li>- Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460(b)(1) through (15) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.</li> </ul>	40 CFR Section 62.14463(f)
<p>The Permittee must report any information recorded under 40 CFR Section 62.14460(c) to (e) for the calendar year preceding the year being reported, in order to provide a summary of the performance of the incinerator over a two-year period:</p> <ul style="list-style-type: none"> <li>- Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460(b)(1) through (15) were not obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken;</li> <li>- Identification of calendar days, times and durations of malfunctions, and a description of the malfunction and the corrective action taken.</li> </ul> <p>(continued below)</p>	40 CFR Section 62.14463(g)
<p>(Continued)</p> <ul style="list-style-type: none"> <li>- Identification of calendar days for which data on emission rates or operating parameters specified under 40 CFR Section 62.14460(b)(1) through (15) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.</li> </ul>	40 CFR Section 62.14463(g) (Continued)
The Permittee must report the results of any performance test conducted during the reporting period.	40 CFR Section 62.14463(h)
If no exceedances or malfunctions occurred during the calendar year being reported, the Permittee must submit a statement that no exceedances occurred during the reporting period.	40 CFR Section 62.14463(i)
The Permittee must report any use of the bypass stack, duration of such use, reason for malfunction, and corrective action taken.	40 CFR Section 62.14463(j)
The Permittee must submit records of the annual equipment inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the time frame established by the EPA Administrator (or delegated enforcement authority).	40 CFR Section 62.14463(k)
The Permittee must submit the information specified in 40 CFR Section 62.14463(a) through (c) no later than 60 days following the initial performance test.	40 CFR Section 62.14464(a)
The Permittee must submit an annual report to the EPA Administrator (or delegated enforcement authority) no more than one year following the submission of the information in 40 CFR Section 62.14464(a) and must submit subsequent reports no more than semiannually following the previous report. The annual report must include the information specified in 40 CFR Section 62.14463(d) through (k), as applicable.	40 CFR Section 62.14464(b)
The Permittee must submit semiannual reports containing any information recorded under 40 CFR Section 62.14460(c) through (e) no later than 60 days following the end of the semiannual reporting period. The first semiannual reporting period ends six months following the submission of information in 40 CFR Section 62.14464(a). Subsequent reports must be submitted no later than six calendar months following the previous report.	40 CFR Section 62.14464(c)
All reports must be signed by the facilities manager as defined in 40 CFR Section 62.14490.	40 CFR Section 62.14465

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-19** 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item:** EU 002 Emergency Diesel Generator 345 hp**Associated Items:** SV 004 Emergency Generator Stack

What to do	Why to do it
NESHAP REQUIREMENTS	hdr
Pt. 63, subp. ZZZZ Applicability: EU 002 was constructed prior to June 12, 2006 and meets the definition of an existing affected source under 40 CFR pt. 63, subp. ZZZZ at 40 CFR Section 63.6590(a)(1)(iii).	40 CFR Section 63.6590(a)(1)(iii); Minn. R. 7011.8150
EU 002 is an existing stationary compression ignition reciprocating internal combustion engine (RICE) with a site rating of less than or equal to 500 brake HP located at an area source of hazardous air pollutant emissions and therefore must comply with the applicable (pt. 63, subp. ZZZZ) emission limitations and operating limitations no later than May 3, 2013.	40 CFR Section 63.6595(a)(1); Minn. R. 7011.8150
EU 002 is an emergency stationary RICE as defined at 40 CFR Section 63.6675.	40 CFR Section 63.6675; Minn. R. 7011.8150
Work Practices And Operating Requirements:  Pt. 63, subp. ZZZZ TABLE 2d  4. EMERGENCY STATIONARY COMPRESSION IGNITION (CI) RICE AND BLACK START STATIONARY CI RICE:  a. Change oil and filter every 500 hours of operation or annually, whichever comes first; b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.  (continued)	40 CFR Section 63.6603; Table 2d of 40 CFR pt. 63, subp. ZZZZ; Minn. R. 7011.8150
(continued from above)  Pt. 63, subp. ZZZ Table 2d footnote 2  If EU 002 is operating during an emergency and it is not possible to shut down EU 002 in order to perform the management practice requirements on the schedule required in Table 2d of pt. 63, subp. ZZZZ, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. The Permittee must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.	40 CFR Section 63.6603; Table 2d of 40 CFR pt. 63, subp. ZZZZ; Minn. R. 7011.8150
The Permittee shall operate and maintain EU 002 and after-treatment control device (if any) according to the manufacturer's emission-related written instructions, or the Permittee shall develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.	40 CFR Section 63.6625(e)(3); Minn. R. 7011.8150
The Permittee shall install a non-resettable hours meter on EU 002, if one is not already installed.	40 CFR Section 63.6625(f); Minn. R. 7011.8150
The Permittee shall minimize EU 002 idle time during startup and minimize EU 002 startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	40 CFR Section 63.6625(h); Minn. R. 7011.8150



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-20**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d of pt. 63, subp. ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content.</p> <p>The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee must change the oil within 2 days of receiving the results of the analysis.</p> <p>(continued)</p>	40 CFR Section 63.6625(i); Minn. R. 7011.8150
<p>(Continued from above)</p> <p>If EU 002 is not in operation when the results of the analysis are received, the Permittee must change the oil within two days or before commencing operation, whichever is later. The Permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the EU 002 maintenance plan.</p>	40 CFR Section 63.6625(i); Minn. R. 7011.8150
<p>(a) The Permittee must be in compliance with the applicable emission limitations and operating limitations in pt. 63, subp. ZZZZ at all times.</p> <p>(b) At all times the Permittee must operate and maintain EU 002, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by pt. 63, subp. ZZZZ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of EU 002.</p>	40 CFR Section 63.6605; Minn. R. 7011.8150
<p>(a) The Permittee must demonstrate continuous compliance with each applicable operating limitation in Table 2d of pt. 63, subp. ZZZZ according to methods specified in Table 6 of pt. 63, subp. ZZZZ.</p> <p>(b) The Permittee must report each instance in which each applicable operating limitation in Table 2d of pt. 63, subp. ZZZZ was not met. These instances are deviations from the operating limitations in pt. 63, subp. ZZZZ. These deviations must be reported according to the requirements in 40 CFR Section 63.6650.</p> <p>(e) The Permittee must also report each instance in which the Permittee did not meet the applicable requirements in Table 8 of pt. 63, subp. ZZZZ.</p>	40 CFR Section 63.6640(a), (b), & (e); Minn. R. 7011.8150
<p>The Permittee must operate EU 002 according to the requirements in paragraphs (f)(1)(i) through (iii) of 40 CFR Section 63.6640. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of Section 63.664, is prohibited. If the Permittee does not operate EU 002 according to the requirements in paragraphs (f)(1)(i) through (iii) of Section 63.664, EU 002 will not be considered an emergency engine under pt. 63, subp. ZZZZ and will need to meet all requirements for non-emergency engines.</p>	40 CFR Section 63.6640(f)(1); Minn. R. 7011.8150
<p>(i) There is no time limit on the use of EU 002 in emergency situations.</p> <p>(ii) The Permittee may operate EU 002 for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with EU 002. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of EU 002 beyond 100 hours per year.</p>	40 CFR Section 63.6640(f)(1)(i) & (ii); Minn. R. 7011.8150

**TABLE A: LIMITS AND OTHER REQUIREMENTS**
**A-21** 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>(iii) The Permittee may operate EU 002 up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except the Permittee may operate EU 002 for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level.</p> <p>(continued)</p>	40 CFR Section 63.6640(f)(1)(iii); Minn. R. 7011.8150
<p>(continued from above)</p> <p>EU 002 may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and EU 002 operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii) of 40 CFR Section 63.6640, as long as the power provided by the financial arrangement is limited to emergency power.</p>	40 CFR Section 63.6640(f)(1)(iii); Minn. R. 7011.8150
<p>(a) If the Permittee must comply with the emission and operating limitations, the Permittee must keep the records described in 40 CFR Section 63.6655(a)(1) through (a)(5), (b)(1) through (b)(3), and (c).</p> <p>(1) A copy of each notification and report submitted to comply with pt. 63, subp. ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted by the Permittee, according to the requirement in 40 CFR Section 63.10(b)(2)(xiv).</p> <p>(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.</p> <p>(3) Records of performance tests and performance evaluations as required in 40 CFR Section 63.10(b)(2)(viii).</p> <p>(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.</p> <p>(continued)</p>	40 CFR Section 63.6655(a); Minn. R. 7011.8150
<p>(continued from above)</p> <p>5) Records of actions taken during periods of malfunction to minimize emissions in accordance with Section 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.</p>	40 CFR Section 63.6655(a); Minn. R. 7011.8150
<p>(d) The Permittee must keep the records required in Table 6 of pt. 63, subp. ZZZZ to show continuous compliance with each applicable emission or operating limitation.</p>	40 CFR Section 63.6655(d); Minn. R. 7011.8150
<p>(e)(2) the Permittee must keep records of the maintenance conducted on EU 002 in order to demonstrate that the Permittee operated and maintained EU 002 and after-treatment control device (if any) according to the Permittee's maintenance plan.</p>	40 CFR Section 63.6655(e)(2); Minn. R. 7011.8150
<p>The Permittee must keep records of the hours of EU 002 operation recorded by the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If EU 002 is used for demand response operation, the Permittee must keep records of the notification of the emergency situation, and the time EU 002 was operated as part of demand response.</p> <p>EU 002 is an emergency RICE located at an area source of HAP emissions that does not meet the standards at pt. 63, subp. ZZZZ applicable to non-emergency engines.</p>	40 CFR Section 63.6655(f); Minn. R. 7011.8150
<b>EMISSION LIMITS</b>	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-22**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

Opacity: less than or equal to 20.0 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
OPERATING CONDITIONS	hdr
Fuel type: No. 2 fuel oil only.	Minn. R. 7007.0800, subp. 2
Operating Hours: less than or equal to 500 hours/year The Permittee shall maintain documentation on site that the unit is an emergency diesel generator by design that qualifies under the U.S. EPA memorandum entitled "Calculating Potential to Emit (PTE) for Emergency Generators" dated September 6, 1995, limiting operation to 500 hours per year.	Minn. R. 7007.0800, subp. 4 & 5
RECORDKEEPING	hdr
Monthly Recordkeeping: Emergency Generator Operating Hours. By the 15th of the month, the Permittee shall calculate and record the following: 1) the total operating hours for the previous calendar month using daily records.  2) the 12-month rolling sum of operating hours for the previous 12 month period by summing the monthly hours data for the previous 12 months.	Minn. R. 7007.0800, subp. 4 & 5
Fuel Supplier Certification: Obtain and maintain a fuel supplier certification for each shipment of No. 2 fuel oil, certifying that the sulfur content does not exceed 0.5% by weight.	Minn. R. 7007.0800, subp. 4 & 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-23**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item: EU 003 Pathological Waste Incinerator (constructed 2002)****Associated Items: SV 003 Pathological Incinerator Stack**

What to do	Why to do it
<p>A combustor is not subject to 40 CFR Section 60.50c during periods when only pathological waste, low-level radioactive waste, and/or chemotherapeutic waste (all defined in 40 CFR Section 60.51c) is burned, provided the Permittee:</p> <ul style="list-style-type: none"> <li>- Notifies the Administrator of an exemption claim; and</li> <li>- Keeps records on a calendar quarter basis of the periods of time when only pathological waste, low-level radioactive waste and/or chemotherapeutic waste is burned.</li> </ul>	40 CFR 60.50c(b)
The Permittee shall burn only pathological waste, low-level radioactive waste, and/or chemotherapeutic waste as defined in 40 CFR Section 60.51c.	40 CFR 60.50c(b)
Opacity: less than or equal to 20.0 percent opacity	Minn. R. 7011.1215, subp. 3.A.
The Permittee must install and operate an afterburner which maintains flue gases at 1,200 degrees Fahrenheit for at least 0.3 seconds.	Minn. R. 7011.1215, subp. 3.B.
Afterburner temperature monitor. The Permittee shall install, calibrate, maintain, and operate at all times a temperature monitoring device(s) on the afterburner. A minimum of one thermocouple shall be installed in the combustion zone of the afterburner. Each temperature monitoring device shall be certified by the manufacturer to have an accuracy of +/-5% over its operating range. The temperature monitoring device shall be operated continuously and data recorded during all periods of operation of the Pathological Waste Incinerator. ("Continuously" is defined as determining at least one data point in each 15-minute time interval)	Minn. R. 7007.0800, subp. 4
Ash shall be stored and transported in such a manner to prevent avoidable amounts of particulate matter to become airborne.	Minn. R. 7011.1215, subp. 3.C.
Recordkeeping: Maintain permanent records for a period of five years of the operating temperature as measured in the afterburner. ("Permanent records" means records that are in a form that is retrievable and readable such as hard copy or a computer disk)	Minn. R. 7007.0800, subp. 4
Fuel Usage: only natural gas or propane may be used as an auxiliary fuel in the incinerator afterburner.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-24**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item: CE 004 Wet Scrubber - High Efficiency****Associated Items:** EU 001 Hospital/Medical/Infectious Waste Incinerator (constructed 1993)

What to do	Why to do it
The Permittee shall operate and maintain CE004 such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE004 such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE004 such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 90 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Pressure Drop: greater than or equal to 24 inches of water column using 3-hour Average	40 CFR Section 62.14453(a)
Liquid Flow Rate: greater than or equal to 100 gallons/minute using 3-hour Average	40 CFR Section 62.14453(a)
pH: greater than or equal to 6.0 pH using 3-hour Average	40 CFR Section 62.14453(a)
The Permittee shall continuously monitor and record the minimum pressure drop across the wet scrubber or minimum horsepower or amperage to the wet scrubber once per minute.	40 CFR Section 62.14454(a)
The Permittee shall continuously monitor and record the minimum scrubber liquor flow rate once per minute.	40 CFR Section 62.14454(a)
The Permittee shall continuously monitor and record the minimum scrubber liquor pH once per minute.	40 CFR Section 62.14454(a)
The inlet gas stream to each particulate matter control device as measured by Minn. R. 7011.1260, subp. 4.A, shall have a temperature of no greater than 30 degrees Fahrenheit above the highest four-hour arithmetic mean temperature measured during four consecutive hours for this gas stream during the most recent performance test for PCDD/PCDF that demonstrated compliance, except as allowed in Minn. R 7011.1240, subp. 2.A and 2.B.	Minn. R. 7011.1240, subp. 2
During the annual PCDD/PCDF performance test and the two weeks preceding the annual PCDD/PCDF performance test, no particulate matter control device temperature limitations are applicable.	Minn. R. 7011.1240, subp. 2.A.
The Commissioner shall waive the particulate matter control device temperature limits 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 temperature limit can be waived; and - the length of time the project will take to complete.	Minn. R. 7011.1240, subp. 2.B.

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-25**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item: CE 005 Wet Electrostatic Precipitator****Associated Items:** EU 001 Hospital/Medical/Infectious Waste Incinerator (constructed 1993)

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The Permittee shall operate and maintain CE 005 such that it achieves an overall control efficiency for Total Particulate Matter: greater than 80 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 005 such that it achieves an overall control efficiency for PM < 10 micron: greater than or equal to 80 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 005 such that it achieves an overall control efficiency for PM < 2.5 micron: greater than or equal to 80 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
Secondary Voltage: greater than or equal to 49.7 kilovolts using 3-hour Rolling Average unless a new minimum secondary voltage input is set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum voltage input is set, it will be based on the average voltage input recorded during the most recent MPCA-approved performance test where compliance was demonstrated. If the three-hour rolling average secondary voltage input drops below the minimum limit, this shall be reported as a deviation.	Minn. R. 7007.0800, subps. 2 and 14
Secondary Current: greater than or equal to 97.9 milliamps using 3-hour Rolling Average unless a new minimum secondary current input is set pursuant to Minn. R. 7017.2025, subp. 3. If a new minimum secondary current input is set, it will be based on the average current input recorded during the most recent MPCA-approved performance test where compliance was demonstrated. If the three-hour rolling average secondary current input drops below the minimum limit, this shall be reported as a deviation.	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 005 any time that EU 001 is in operation. The Permittee shall document periods of non-operation of CE 005 when EU 001 is operating.	Minn. R. 7007.0800, subp. 16(J)
MONITORING AND RECORDKEEPING	hdr
Data Collection (Secondary Current and Secondary Voltage): The Permittee shall maintain a continuous hard copy readout or computer disk file of the secondary current and secondary voltage. The total secondary current and secondary voltage shall be measured and recorded at intervals not to exceed 60 seconds.  The Permittee shall calculate and record the 15-minute average total secondary current and 15-minute average total secondary voltage using the data recorded at intervals no greater than 60 seconds. The Permittee shall also calculate and record the three-hour rolling average total secondary current and total secondary voltage using the 15-minute average total secondary current and average total secondary voltage, respectively.	Minn. R. 7007.0800, subps. 4 and 5
Daily Monitoring: The Permittee shall physically verify the operation of the Continuous Parameter Monitoring System (CPMS) at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subps. 4 and 5
Monitoring Equipment: The Permittee must install and maintain a continuous parameter monitoring system (CPMS) for monitoring the ESP secondary current and voltage input as required by this permit. The monitoring equipment must be installed, in use, and properly maintained, including maintaining the necessary parts for routine repairs of the monitoring equipment, whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subps. 4 and 5
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components that are subject to wear or plugging, for example: bearings, belts, hoses, fans, nozzles, orifices, and ducts. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5 and 14
Annual Inspections: At least once per calendar year, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components not covered by the quarterly inspections. This includes, but is not limited to, components that are not subject to wear or plugging including structural components, housings, and hoods. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5 and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-26**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

Annual Calibration: The Permittee shall calibrate the total secondary power input monitor at least at least once every 12 months and shall maintain a written record of the calibration and any action resulting from the calibration. Replacement is acceptable in lieu of calibration.	Minn. R. 7007.0800, subps. 4, 5 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - any recorded operating parameter is outside the required operating range (e.g., total power input); or - the ESP or any of its components are found during the inspections to need repair. Corrective actions shall return operation to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the ESP. The Permittee shall keep a record of the type and date of any corrective action taken for the ESP.	Minn. R. 7007.0800, subps. 4, 5 and 14
Operation and Maintenance of ESP: The Permittee shall operate and maintain the ESP in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and review by MPCA staff.	Minn. R. 7007.0800, subp. 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-27**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

**Subject Item: CE 006 Selective Noncatalytic Reduction for NOX****Associated Items:** EU 001 Hospital/Medical/Infectious Waste Incinerator (constructed 1993)

What to do	Why to do it
CE 006 OPERATING REQUIREMENTS	hdr
Upon the effective date of the 140 ppmv @7% O2 NOx limit in Table 1 of 40 CFR pt. 62, subp. HHH revisions proposed on April 23, 2012 in the Federal Register/Vol. 77, No. 78, pages 24272 through 24299, the Permittee shall operate and maintain CE 006 such that it achieves an overall control efficiency for Nitrogen Oxides: greater than 44 percent control efficiency	Minn. R. 7007.0800, subps. 2 and 14
<p>Reagent (Urea) Flow Rate: The Permittee shall maintain the three-hour rolling average urea flow rate at no less than the Minimum Reagent Flow Rate as defined at 40 CFR Section 62.14490 proposed April 23, 2012 at FR vol. 77, No. 78, pages 24272 - 24299.</p> <p>This requirement does not apply until the initial NOx performance test is required to be conducted at the deadline specified in 40 CFR Section 62.14470(a)(3) proposed on April 23, 2012 in the Federal Register/Vol. 77, No. 78, pages 24272 through 24299.</p> <p>If the final subp. HHH rule requirement is different than the proposed requirement, the Permittee shall meet the final requirement in pt. 62, subp. HHH.</p>	Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain CE 006 any time that EU 001 is in operation. The Permittee shall document periods of non-operation of CE 006 when EU 001 is operating.	Minn. R. 7007.0800, subp. 16(J)
MONITORING AND RECORDKEEPING	hdr
<p>Minimum Reagent Flow Rate - Minimum reagent flow rate is defined as 90 percent of the highest three-hour average reagent flow rate at the inlet to CE 006 (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the EU 001 NOx emissions limit.</p> <p>This definition does not apply until the effective date of revisions to 40 CFR Section 62.14490 proposed April 23, 2012 at FR vol. 77, No. 78, pages 24272 - 24299.</p> <p>If the final subp. HHH rule requirement is different than the proposed requirement, the Permittee shall meet the final requirement in pt. 62, subp. HHH.</p>	Minn. R. 7007.0800, subp. 2
<p>Reagent (Urea) Flow Rate Monitoring: Once each hour, the Permittee shall monitor and record the urea flow rate to CE 006.</p> <p>This requirement does not apply until the initial NOx performance test is required to be conducted at the deadline specified in 40 CFR Section 62.14470(a)(3) proposed on April 23, 2012 in the Federal Register/Vol. 77, No. 78, pages 24272 through 24299.</p> <p>If the final subp. HHH rule requirement is different than the proposed requirement, the Permittee shall meet the final requirement in pt. 62, subp. HHH.</p>	Minn. R. 7007.0800, subps. 4, 5 and 14
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components that are subject to wear or plugging, for example: bearings, belts, hoses, fans, nozzles, orifices, and ducts. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5 and 14
Annual Inspections: At least once per calendar year, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components not covered by the quarterly inspections. This includes, but is not limited to, components that are not subject to wear or plugging including structural components, housings, and hoods. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subps. 4, 5 and 14
Annual Calibration: The Permittee shall calibrate the CE 006 urea flow rate monitor at least once every 12 months and shall maintain a written record of the calibration and any action resulting from the calibration. Monitor replacement is acceptable in lieu of calibration.	Minn. R. 7007.0800, subps. 4, 5 and 14



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-28**

11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

<p>Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur:</p> <ul style="list-style-type: none"> <li>- any recorded operating parameter is outside the required operating range (e.g., three-hour rolling average urea flow rate); or</li> <li>- CE 006 or any of its components are found during the inspections to need repair.</li> </ul> <p>Corrective actions shall return operation to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the CE 006 O &amp; M Plan. The Permittee shall keep a record of the type and date of any corrective action taken for CE 006.</p>	Minn. R. 7007.0800, subps. 4, 5 and 14
<p>Operation and Maintenance of CE 006: The Permittee shall operate and maintain CE 006 in accordance with the Operation and Maintenance (O &amp; M) Plan. The Permittee shall keep copies of the O &amp; M Plan available onsite for use by staff and review by MPCA staff.</p>	Minn. R. 7007.0800, subp. 14
<p>Data Collection (Urea Flow Rate): The Permittee shall maintain a continuous hard copy readout or computer disk file of the urea flow rate. The urea flow rate shall be measured and recorded at intervals not to exceed 60 seconds.</p> <p>Once each operating hour, the Permittee shall calculate and record the hourly average urea flow rate using the data recorded at intervals no greater than 60 seconds. The Permittee shall also calculate and record the three-hour rolling average urea flow rate using the hourly average flow rates.</p>	Minn. R. 7007.0800, subps. 4 and 5
<p>Daily Monitoring: The Permittee shall physically verify the operation of the urea flow rate Continuous Parameter Monitoring System (CPMS) at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.</p>	Minn. R. 7007.0800, subps. 4 and 5
<p>Monitoring Equipment: The Permittee must install and maintain a continuous parameter monitoring system (CPMS) for monitoring CE 006 urea flow rate as required by this permit. The monitoring equipment must be installed, in use, and properly maintained, including maintaining the necessary parts for routine repairs of the monitoring equipment, whenever CE 006 operation is required.</p>	Minn. R. 7007.0800, subps. 4 and 5

## TABLE B: SUBMITTALS

B-1 11/07/12

Facility Name: Mayo Waste Management Facility  
Permit Number: 10900030 - 004

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency  
Clean Air Markets Division  
1200 Pennsylvania Avenue NW (6204N)  
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

Fiscal Services  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

**TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS****B-2** 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before 09/20/2010. This requirement was completed 03/23/2010.	Total Facility

**TABLE B: RECURRENT SUBMITTALS****B-3** 11/07/12

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030 - 004

What to send	When to send	Portion of Facility Affected
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 09/20/2005 (Submit Deviations Reporting Form DRF-1 as amended). The EER shall indicate all periods of CEMS bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	EU001
Quarterly Report	due 30 days after end of each calendar quarter starting 09/20/2005	EU001
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 09/20/2005. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 09/20/2005 (for the previous calendar year). Submit the certification on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL

Facility Name: Mayo Waste Management Facility

Permit Number: 10900030-004

**APPENDIX 1: Insignificant Activities Required To Be Listed**

<b>Minn. R. 7007.1300 subpart</b>	<b>Rule Description of the Activity</b>	<b>Applicable Requirement</b>
3(B)(2)	Gas-fired pressure washer (152,000 Btu/hr)	Minn. R. 7011.0715
3(H)(3)	Welding and soldering equipment	Minn. R. 7011.0715
4	Parts washer, pallet chopper	Minn. R. 7011.0715
4	Autoclave boiler	Minn. R. 7011.0515

## **APPENDIX 2: Approval of Variance From Minnesota Waste Combustor Rules**

**STATE OF MINNESOTA  
MINNESOTA POLLUTION CONTROL AGENCY**

**IN THE MATTER OF ISSUANCE OF  
THE MAYO FOUNDATION MEDICAL  
WASTE MANAGEMENT FACILITY  
AIR EMISSIONS PERMIT No. 10900030-001  
AND VARIANCES FROM MINNESOTA'S  
WASTE COMBUSTOR RULES  
ROCHESTER, MINNESOTA**

**FINDINGS OF FACT  
CONCLUSIONS OF LAW  
AND ORDER**

The above-entitled matter came before the Minnesota Pollution Control Agency (MPCA) at its regularly scheduled meeting held in St. Paul, Minnesota, on August 23, 2005. Based on all of the files, records, and proceedings herein, the MPCA finds, concludes and orders as follows:

**FINDINGS OF FACT**

This matter is the application of the Mayo Foundation (Permittee) for issuance of a Title V total facility Air Emission Permit and two variances for the operation of its Mayo Medical Waste Management Facility (Facility) in Rochester, Minnesota. The MPCA must decide whether, under applicable statutes and rules, it should issue the permit and variances and, if so, under what terms and conditions.

**DESCRIPTION OF THE FACILITY**

1. The Permittee operates a medical waste incinerator unit at the Facility at 7123 L.C. Drive Southwest in Rochester, Minnesota. The Facility is a two-level, 26,700 square foot building housing a 2,200-pound per hour medical waste incinerator, a 200- pound per hour pathological waste incinerator, and two steam decontaminating/waste processing units. The Facility operates 24-hours per day Monday through Friday.
2. The Facility processes general waste and infectious waste generated from healthcare, medical research, and medical education activities at Rochester facilities, as well as infectious and pathological waste from medical waste generators in Olmsted and Dodge Counties. The waste stream excludes significant volumes of paper, cardboard, plastic, aluminum, glass, food, metal, and electronic wastes recovered the Facility's recycling program.
3. Normally, all general and medical waste is processed through the incinerator. The steam decontamination/waste processing units provide back-up for processing medical waste when the incinerator is not functioning. The steam decontamination/waste processing units are routinely used to sterilize glassware prior to recycling or disposal at a landfill. Tissues and animals from clinical research activities are processed in the pathological incinerator.
4. Air pollution control equipment consists of a high efficiency wet scrubbing system. 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 potential of Hydrogen (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 also be continuously monitored. Individual waste load weights are automatically recorded via an electronic scale system.

5. The Facility is a minor source of criteria and hazardous air pollutants, although it is a major source under the Part 70 permit program.

#### **PUBLIC NOTICE - PERMIT AND VARIANCE**

6. Minn. R. 7007.0850 to 7007.0950 contain procedural requirements for public notice and comment, review by other states, and review and objection by U.S. Environmental Protection Agency (EPA) of MPCA permits. Subpart 2 of Minn. R. 7007.0850 requires the MPCA Commissioner to give public notice of the preliminary determination to issue a permit, including information on how copies of relevant documents can be obtained, the activities involved in the permit action, the emission changes, the comment procedures, any scheduled meetings or hearings, and hearing request procedures. Minn. R. 7007.9000 requires the MPCA to provide notice to affected states. Minn. R. 7007.0950 specifies the procedures for EPA review.
7. Minn. R. 7000.7000, subps. 4 - 7 contain procedural requirements for public notice and comment on a proposed variance. The Commissioner of the MPCA must make a preliminary determination to either issue or deny the variance. The preliminary determination must be put on public notice for at least 30 days. The notice must be mailed to all persons who have registered to receive such notices and it must be circulated to the general public in compliance with the options listed in sub. 7.
8. The proposed permit and variances were put on public notice for thirty days beginning on May 31, 2005. The public comment period ended on June 29, 2005. In accordance with Minn. R. 7007.0850, subps. 1 and 2, and Minn. R. 7000.700, subp. 5 the draft permit, technical support document and preliminary determination to grant the variances were made available to the public. The files and records of the development of the proposed permit and variances have been and continue to be available for public review.
9. Pursuant to Minn. R. 7000.7000, subp. 6, the preliminary determination was mailed to all interested persons on May 27, 2005.
10. Pursuant to the notice requirements of Minn. R. ch. 7000.0650, all interested persons received notice that this matter would be heard by the MPCA Citizens' Board on August 23, 2005.
11. The MPCA received no comments on the proposed permit and variances

#### **THE FACILITY'S CLASSIFICATION BACKGROUND**

12. The MPCA originally issued a permit to the Permittee in 1992 to construct and operate the Facility. It began operating in 1994. As originally permitted, the incinerator was classified under Minnesota rules as a Class III Waste Combustor with a permitted capacity of 15 million British thermal units



per hour (MMBtu/hr). Class III Waste Combustors were units with a design capacity of 3 MMBtu/hr or more and less than 15 MMBtu/hr for which a construction permit issued after December 20, 1989.

13. Through the Title V Permit process, the Permittee determined that its actual operating capacity was 16.25 MMBtu/hr, which falls within the Class II Btu range. Class II Waste Combustors are those for which a construction permit issued after September 20, 1994, however. The construction dates in the waste combustor rules reflect the dates on which the rules were proposed and distinguish between "new" and "existing" units as they are regulated under the rules.
14. The Permittee has applied for a permit to operate as a Class II Waste Combustor and requests that the MPCA grant it a variance from the September 20, 1994, permitting date in the definition of a Class II unit. The Facility's original 1992 permitting date requires that the Permittee receive a variance if it is to be permitted as a Class II Waste Combustor. The permit as proposed includes all Class II requirements except the requirement to install and operate a continuous sulfur dioxide monitor, as discussed in Findings 18 through 22 below.
15. The Permittee has demonstrated that the Facility can safely operate as a Class II Waste Combustor and has demonstrated that it can meet the more stringent emission limits imposed on Class II units by the waste combustor rule.
16. The Permittee proposes and the MPCA Commissioner preliminarily determined to grant the Permittee's variance request and to permit the Facility as a Class II Waste Combustor. The MPCA finds that the September 20, 1994, permit issuance date in the waste combustor rules for Class II units should not bar the Facility from operating as a Class II unit when it has demonstrated that it can safely operate as a Class II unit and can meet all requirements applicable to a Class II unit.
17. The MPCA finds that it is appropriate to permit the Facility as a Class II Waste Combustor and to grant the requested variance from the September 20, 1994, permitting date in the Class II rules. Because the Facility intends to operate as a Class II Waste Combustor for the life of the unit, the variance will be permanent.

#### **SULFUR DIOXIDE MONITORING**

18. The existing Class III waste combustor rules do not require continuous monitoring of sulfur dioxide emissions from the combustion unit. Therefore, the Permittee did not install a continuous sulfur dioxide monitor while the unit was permitted as a Class III unit.
19. The Facility is also subject to a EPA rule governing Hospital/Medical/Infectious Waste Incinerators that does not require sulfur dioxide monitoring. Minnesota has not yet adopted the federal rule, but will adopt it in the future.
20. The Class II waste combustor rules require continuous sulfur dioxide monitoring. If the Permittee is required to install the monitors, the requirement will be temporary until the MPCA amends its rules to incorporate the EPA medical waste incineration rule.

21. Sulfur dioxide emissions are typically not a significant pollutant emitted from medical waste incineration units. Stack tests on the Facility are consistent with this information and show that the incineration unit emits less than five percent or 1.6 parts per million compared to the sulfur dioxide limit of 30 parts per million.
22. The Permittee proposes and the MPCA Commissioner preliminarily determined to grant the Permittee's variance request and eliminate the requirement to install and operate continuous sulfur dioxide monitoring. The MPCA finds that sulfur dioxide is not a pollutant of concern from the Facility and that it is appropriate to grant the requested variance from the continuous monitoring requirement. The variance will be temporary until Minnesota amends its rules to incorporate the EPA Hospital/Medical/Infectious Waste Combustor rule. At that time, no applicable rules will require continuous sulfur dioxide monitoring.

#### FINAL DETERMINATION ON ISSUANCE OF THE PERMIT

23. The MPCA must find that certain preconditions to permit issuance are met prior to granting an air emissions permit application. The preconditions are contained in Minn. R. 7007.1000, subp. 1, which states:

*Preconditions for issuance. The MPCA shall issue a permit or permit amendment, or reissue a permit only if it determines that all of the following conditions have been met:*

- A. *The agency has received a complete application for a permit, permit amendment, or permit reissuance, except that a complete application need not be received before issuance of a general permit under part 7007.1100, subpart 4.*
- B. *The MPCA has complied with the public participation procedures for permit issuance, if required by part 7007.0850.*
- C. *The MPCA has complied with the procedures for notifying and responding to affected states, if required by part 7007.0900.*
- D. *If the [U.S. EPA] administrator's review is required by Part 7007.0950, the administrator has received a copy of the permit and any notices required and has not objected to issuance of the permit within the time period specific, or the administrator has objected but the objection has been resolved to the administrator's satisfaction.*
- E. *The conditions of the permit provide for compliance with all applicable requirements and the requirements of parts 7007.0100, to 7007.1850, or include a schedule to achieve such compliance.*
- F. *The permit does not reflect a variance from any federally enforceable applicable requirement or requirement of parts 7007.0100 to 7007.1850.*
- G. *The MPCA anticipates that the applicant will, with respect to the stationary source and activity to be permitted, comply with all conditions of the permit.*
- H. *All applicable provisions of Minnesota Statutes, chapter 116D, and the rules adopted under Minnesota Statutes, chapter 116D, have been fulfilled.*

Each of these preconditions is addressed in turn below.

24. Receipt of Application. The requirement of Minn. R. 7007.1000, subp. 9(A) has been met. The Permittee submitted a permit application on December 13, 1995, and updated September 14, 2000; March 31, 2003; and April 28, 2005. On April 28, 2005, the MPCA considered the application complete.
25. Public Participation Procedures. The requirement of Minn. R. 7007.1000, subp. 2(b) has been met. The public participation described in Findings 6 through 11 demonstrate compliance with the public participation procedures applicable to the permit. No written comments were received.
26. Affected States. The Minn. R. 7007.1000, subp. 1(C) notification requirements have been met in accordance with Minn. R. 7007.0900. All affected states were sent a copy of the public notice. No written comments were received.
27. EPA Review. The requirement of Minn. R. 7007.1000, subp. 1(D) has been met. A copy of the public notice, draft permit, and supporting documents were sent to EPA – Region V on May 23, 2005.
28. Permit Covers All Applicable Requirements. The requirement of Minn. R. 7007.1000, subp. 1(E) has been met. The permit provides for compliance with all “applicable requirement” as that term is defined in the MPCA’s rules at Minn. R. 7007.0100, subp. 7 to which the Permittee’s Facility would be subject. The permit also provides for compliance with all the requirements of Minn. R. 7007.0050 to 7007.1850, in particular by requiring that any changes or modifications to the Facility be performed in compliance with Minn. R. 7007.1150 to 7007.1500.
29. No Variance. The requirement of Minn. R. 7007.1000, subp. 1(F) is met. The permit does not reflect a variance from any federally enforceable applicable requirement or the requirements of Minn. R. ch. 7007.
30. Compliance Anticipated. The requirement of Minn. R. 7007.1000, subp. 1(G) is met. The MPCA anticipates that the Facility will comply with the conditions of the permit, which includes Class II requirements as provided by the variances. The limitations are technologically feasible and clearly expressed, and the permit includes monitoring, testing, and reporting requirements to insure the enforceability of the permit conditions.
31. Minn. Stat. ch. 116D. All applicable provisions of Minn. Stat. ch. 116D and the rules adopted under Minn. Stat. ch. 116D have been fulfilled.

#### CONCLUSIONS OF LAW

32. All procedural requirements for issuance of the permit and variances have been met.
33. All preconditions for issuance of the permit under Minn. R. 7007.1000, subp. 1 have been met.
34. The MPCA’s findings of fact justify issuing the permit and approving the requested variances.
35. Any finding more properly considered a conclusion shall be considered a conclusion. Any conclusion more properly considered a finding shall be considered a finding.

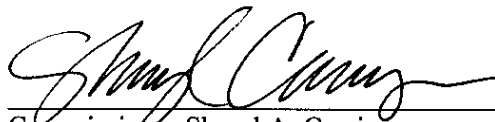
### ORDER

The Minnesota Pollution Control Agency (MPCA) approves the request for a variance from the construction date in Minn. R. 7011.1201, subpb. 14 for the Mayo Foundation Medical Waste Incineration Facility in Rochester, Minnesota. This variance will not expire.

The MPCA approves the request for a variance from requirement for continuous SO<sub>2</sub> monitoring in Minn. R. 7011.1260, subp. 3.C for the Mayo Foundation Medical Waste Incineration Facility in Rochester, Minnesota. This variance will expire on the date when Minnesota's adoption of the federal Hospital/Medical/Infectious Waste Incinerator rule is effective.

The MPCA approves issuance of Air Emissions Permit No. 10900030-001 to the Mayo Foundation for the Mayo Medical Waste Management Facility for operation of its Facility at 7123 L.C. Drive Southwest, Rochester, Minnesota.

### IT IS SO ORDERED



Commissioner Sheryl A. Corrigan  
Chair, Citizens' Board  
Minnesota Pollution Control Agency

9/23/05  
Date