

**DRAFT/PROPOSED**

**AIR EMISSION PERMIT NO. 14500008-005**  
**Total Facility Operating Permit - Reissuance**

**IS ISSUED TO**

Order of St Benedict/St John's Abbey

**ORDER OF ST BENEDICT/ST JOHN'S ABBEY**  
Power Plant  
Collegeville, Stearns County, Minnesota 56321

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

This permit reissuance supersedes Air Emission Permit No. 14500008-004 and authorizes the Permittee to operate 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 SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

**Permit Type:** Federal; Pt 70/Limits to Avoid NSR and NESHAPs

**Operating Permit Issue Date:** <issue date>

**Expiration Date:** <5-yr expiration> – All Title I Conditions do not expire

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Air Quality Permits Section  
Industrial Division

for John Stine  
Commissioner  
Minnesota Pollution Control Agency

### Permit Applications Table

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Total Facility Operating Permit Reissuance	11/29/10	005

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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:**

The Order of St. Benedict/St. John's Abbey is a higher education facility in Collegeville, Minnesota. St. John's currently has six boilers and four electrical generators. Of the six boilers three fire coal and three fire natural gas. Fuel oil may be used as a backup for two of the natural gas fired boilers. In addition to these units are a number of units counted as insignificant activities, including the following: laboratories, emergency generators ash handling systems, kilns, parts washer, spray booth, and fly ash silo. In late 1997, a boiler that fired a mixture of wood waste and campus waste was shut down and removed from site. A baghouse is used to control emissions from coal fired Boiler No. 4.

Currently St. John's is not burning coal in the coal boilers (EU 001, EU 002, EU 004). When not burning coal these boilers are idle. The facility plans to burn only natural gas with fuel oil as a back-up through October 2015. St. John's would like to be able to switch back to coal in the future if needed.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

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Facility Name: Order of St Benedict/St John's Abbey  
 Permit Number: 14500008 - 005

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

**Subject Item: Total Facility**

What to do	Why to do it
<b>OPERATIONAL REQUIREMENTS</b>	hdr
The Permittee shall comply and upon written request demonstrate compliance, 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, subps. 7A, 7L & 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0100-7009.0080.
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 control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices 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 practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation 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, B, and/or C.	Minn. R. ch. 7017
Performance Test Notifications and Submittals:  Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.  Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test  The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subps. 1-4, 7017.2018 and Minn. R. 7017.2035, subps. 1-2

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

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Facility Name: Order of St Benedict/St John's Abbey

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Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025, subp. 3
<b>MONITORING REQUIREMENTS</b>	hdr
Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
<b>RECORDKEEPING</b>	hdr
Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007. 1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
When the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For expiring permits, these records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
<b>REPORTING/SUBMITTALS</b>	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.  At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
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 owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.  At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-3** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

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
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). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - Minn. R. 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - Minn. R. 7002.0095
ADDITION OF EMISSION UNITS	hdr
The Permittee may add or modify boilers, generators, and/or kilns using the appropriate permit amendment. The added or modified emission units must comply with the synthetic minor emission limits listed in Table A.	Title I Condition: to avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
MODELING REQUIREMENTS	hdr
The parameters used in NOx, SO2, and PM10 modeling are listed in Appendix II of this permit. The parameters describe the operation of the facility at maximum permitted capacity. The purpose of listing the parameters in the appendix is to provide a benchmark for future changes.	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
For SO2 and PM10 only Modeling Triggers: For changes that do not require a permit amendment or that require a minor permit amendment, and that affect any modeled parameter or emission rate documented in Appendix II, or an addition to the information documented in Appendix II, a Remodeling Submittal requirement is not triggered. The Permittee shall keep updated records on site of all parameters and emission rates. The Permittee shall submit any changes to parameters and emission rates with the next required remodeling submittal.  For changes that require a moderate or major permit amendment and affect any modeled parameter or emission rate, a Remodeling Submittal requirement is triggered. The Permittee shall include previously made changes to parameters and emission rates that did not trigger a remodeling submittal with this modeling submittal.	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
For SO2 and PM10 only Remodeling Submittal: The Permittee must submit to the MPCA for approval changes meeting the above criteria and must wait for a written approval (in the form of an issued permit amendment) before making such changes. The information submitted must include, for stack and vent sources, source emission rate, location, height, diameters, exit velocity, exit temperature, discharge direction, use of rain caps or rain hats, and, if applicable, locations and dimensions of nearby buildings. For non-stack/vent sources, this includes the source emission rate, location, size and shape, release height, and, if applicable, any emission rate scalars, and the initial lateral dimensions and initial vertical dimensions and adjacent building heights.	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
For SO2 and PM10 only Remodeling Submittal, continued: The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled September 21, 2001. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must submit full remodeling.	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, continued

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Order of St Benedict/St John's Abbey  
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For PM10 only Modeling at Reissuance: The Permittee shall submit an assessment with the reissuance application (due as stated elsewhere in this permit) that addresses any changes made during the permit term that did not require a permit amendment but that affected any modeled parameter or emission rate (including adding sources beyond those documented in Appendix II) and were not assessed in a later modeling submittal. The information in this submittal shall be the same as listed in the requirement entitled "Remodeling Submittal".	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
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**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-5**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item: GP 001 Sulfur Dioxide Limit****Associated Items:** EU 001 Boiler #1

EU 002 Boiler #2

EU 003 Boiler #3

EU 004 Boiler #4

EU 005 Boiler #5

EU 007 Generator #1

EU 008 Generator #2

EU 009 Kiln #1 (natural gas)

EU 010 Kiln #2 (wood)

EU 013 Boiler #6

EU 014 Emergency Generator #1

EU 015 Emergency Generator #2

What to do	Why to do it
Additional requirements are located at the EU level for the boilers and kilns.	hdr
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 225 tons/year from the emission units listed in GP 001 based on a 12-month rolling sum.	Title I Condition: to avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
RECORDKEEPING	hdr
Maintain records of fuel sulfur content of all fuel burned on site and monthly fuel usage. Sulfur content of the fuel may be determined by a fuel supplier certification supplied by the fuel company kept on site or fuel sampling of each delivery of fuel. If fuel supplier certification is used the Permittee shall obtain a single certification from the fuel supplier guaranteeing a maximum sulfur content in all fuel deliveries thereafter. The single certification shall also state that the supplier will notify the Permittee in writing on the date of delivery of fuel with a sulfur content exceeding the guaranteed maximum, that the fuel sulfur content exceeds the guaranteed maximum value.	Title I Condition: to avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Monthly Recordkeeping - SO <sub>2</sub> Emissions By the 15th of the month, the Permittee shall calculate and record the following: 1) The sulfur dioxide emissions for the previous month;  2) The 12-month rolling sum SO <sub>2</sub> emissions for the previous 12-month period by summing the monthly SO <sub>2</sub> emissions data for the previous 12 months.  Calculation methods are provided in Appendix III to this permit.	Title I Condition: to avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-6**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** GP 002 Generators**Associated Items:** EU 007 Generator #1

EU 008 Generator #2

What to do	Why to do it
EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.05 lbs/million Btu heat input . Use of diesel fuel with a sulfur content less than 0.05 weight percent satisfies this requirement.	Minn. R. ch. 7009, also meets the requirements of Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
OPERATING LIMITS	hdr
Operating Hours: less than or equal to 300 hours/year using 12-month Rolling Sum calculated monthly. The limit applies to each generator individually.	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Operating Hours: less than or equal to 12 hours/day	Minn. R. ch. 7009
RECORDKEEPING	hdr
Recordkeeping: once each operating day record the number of hours each generator operated that day. By the 15th of the month, the Permittee shall calculate and record the following: 1) The operating hours for the previous month; 2) The 12-month rolling sum operating hours for the previous 12-month period by summing the monthly operating hours for the previous 12 months.	Minn. R. 7007.0800, subp. 5
Recordkeeping: the Permittee shall obtain and maintain on site a signed single certification from the fuel supplier guaranteeing the maximum sulfur content in all fuel deliveries thereafter. The single certification shall also state that the supplier will notify the Permittee in writing on the date of delivery of fuel with a sulfur content exceeding the guaranteed maximum, that the fuel sulfur content exceeds the guaranteed maximum value.	Minn. R. 7007.0800, subp. 5
The Permittee shall comply with the applicable requirements from 40 CFR pt. 63, subp. ZZZZ no later than May 3, 2013. The Permittee shall submit the appropriate amendment to incorporate 40 CFR pt. 63, subp. ZZZZ into the permit before the compliance date listed above.  If an insignificant modification is triggered the Permittee must follow the requirements in Minn. R. 7007.1250.	40 CFR pt. 63, subp. ZZZZ; Minn. R. 7011.8150

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-7** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** GP 003 Emergency Generators**Associated Items:** EU 014 Emergency Generator #1

EU 015 Emergency Generator #2

What to do	Why to do it
EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.05 lbs/million Btu heat input . Use of diesel fuel with a sulfur content less than 0.05 weight percent satisfies this requirement. This limit is more stringent than that specified in Minn. R. 7011.2300, subp. 2.	Minn. R. 7011.2300, subp. 2
OPERATING LIMITS	hdr
Operating Hours: less than or equal to 500 hours/year . The Permittee shall maintain documentation on site that each 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, subps. 4 and 5
RECORDKEEPING	hdr
Recordkeeping: once each operating day record the number of hours each generator operated that day	Minn. R. 7007.0800, subp. 5
Recordkeeping: the Permittee shall obtain and maintain on site a signed single certification from the fuel supplier guaranteeing the maximum sulfur content in all fuel deliveries thereafter. The single certification shall also state that the supplier will notify the Permittee in writing on the date of delivery of fuel with a sulfur content exceeding the guaranteed maximum, that the fuel sulfur content exceeds the guaranteed maximum value.	Minn. R. 7007.0800, subps. 4 and 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-8 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** GP 005 Existing Coal Boilers Subject to 40 CFR Part 63 JJJJJJ**Associated Items:** EU 001 Boiler #1

EU 002 Boiler #2

EU 004 Boiler #4

What to do	Why to do it
Additional requirements are located at the EU level for the boilers.	hdr
Requirements under 40 CFR pt. 63, Subpart JJJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources	hdr
Enforcement not delegated to MPCA.	
EMISSION LIMITS	hdr
Mercury: less than or equal to 0.000022 lbs/million Btu heat input.	40 CFR Section 63.11201(a); 40 CFR pt. 63, subp. JJJJJJ, Table 1
Carbon monoxide: less than or equal to 420 parts per million by volume on a dry basis corrected to 3 percent oxygen.	40 CFR Section 63.11201(a); 40 CFR pt. 63, subp. JJJJJJ, Table 1
OPERATIONAL REQUIREMENTS	hdr
The Permittee must comply with the applicable emission limitations no later than March 21, 2014.	40 CFR Section 63.11196(a)(2)
The Permittee must comply with the requirement to conduct an energy assessment no later than March 21, 2014.	40 CFR Section 63.11196(a)(3)
At all times the Permittee must operate and maintain affected boilers, 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 this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	40 CFR Section 63.11205(a)
The Permittee shall demonstrate initial compliance with each applicable work practice standard, management practice, or emission reduction measure no later than March 21, 2014 and according to the applicable provisions in 40 CFR Section 63.7(a)(2), except as provided in paragraph (j) of this section.	40 CFR Section 63.11210(c)
The Permittee must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR pt. 63, subp. JJJJJJ satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include: (1) A visual inspection of the boiler system; (2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;  (continued below)	40 CFR 63.11201(b); 40 CFR Section 63, subp. JJJJJJ, Table 2
(continued from above)  (3) An inventory of major energy use systems consuming energy from affected boilers and which are under control of the boiler owner or operator; (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; (5) A list of major energy conservation measures that are within the facility's control; (6) A list of the energy savings potential of the energy conservation measures identified; and (7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.	40 CFR 63.11201(b); 40 CFR Section 63, subp. JJJJJJ, Table 2
The Permittee must comply with each operating limit specified in Table 3 to subpart JJJJJJ that apply to the affected boilers.	40 CFR 63.11201(c)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-9** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

The standards in 40 CFR Section 63.11201 apply at all times the affected boilers are operating, except during periods of startup and shutdown as defined in 40 CFR Section 63.11237, during which time the Permittee must comply only with Table 2 to 40 CFR pt. 63, subp. JJJJJ.	40 CFR Section 63.11201(d)
The Permittee must comply with the General Provisions as applicable in Table 8 of 40 CFR pt. 63, subp. JJJJJ.	40 CFR Section 63.11235; 40 CFR pt. 63 subp. JJJJJ, Table 8
<p>If the Permittee plans to burn a new type of fuel, the Permittee must determine the mercury concentration for any new fuel type in units of pounds per million Btu, using the procedures in Equation 1 of 40 CFR Section 63.11211 based on supplier data or the Permittee's own fuel analysis, and meet the requirements (i) or (ii) as follows:</p> <p>(i) The recalculated mercury emission rate must be less than the applicable emission limit.</p> <p>(ii) If the mercury concentration is higher than mercury fuel input during the previous performance test, then the Permittee must conduct a new performance test within 60 days of burning the new fuel type or fuel mixture according to the procedures in 40 CFR Section 63.11212 to demonstrate that the mercury emissions do not exceed the emission limit.</p>	40 CFR Section 63.11222(a)(3)
The Permittee must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, the Permittee must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The Permittee must submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available.	40 CFR Section 63.11214(d); 40 CFR Section 63.11201(b); 40 CFR Section 63, subp. JJJJJ, Table 2; 40 CFR Section 63.11223(g)
<p>The Permittee must develop a site-specific monitoring plan according to the requirements in paragraphs (c)(1) through (3) listed below for the use of any CEMS, COMS, or CPMS.</p> <p>(continued below)</p>	40 CFR Section 63.11205(c)
<p>(continued from above)</p> <p>(1) For each CMS required in this section (including CEMS, COMS, or CPMS), the Permittee must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR Section 63.11205(c)(1)(i) through (vi). The Permittee must submit this site-specific monitoring plan, if requested, at least 60 days before the initial performance evaluation of the CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance specifications under appendix B to part 60 of this chapter and that meet the requirements of 40 CFR Section 63.11224.</p> <p>(continued below)</p>	40 CFR Section 63.11205(c)
<p>(continued from above)</p> <p>(2) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan.</p> <p>(3) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.</p>	40 CFR Section 63.11205(c)
<p>The Permittee must develop a site-specific monitoring plan according to the requirements in items (1) through (4) listed below. This requirement also applies to the Permittee if the Permittee petitions the EPA Administrator for alternative monitoring parameters under 40 CFR Section 63.8(f).</p> <p>(1) For each CMS required in 40 CFR Section 63.11224, the Permittee must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses 40 CFR Section 63.11224(c)(1)(i) through (iii). The Permittee must submit this site-specific monitoring plan (if requested) at least 60 days before the initial performance evaluation of the CMS.</p> <p>(continued below)</p>	40 CFR Section 63.11224(c)

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

(continued from above)	40 CFR Section 63.11224(c)
<p>(2) In the site-specific monitoring plan, the Permittee must also address paragraphs (i) through (iii) as follows:</p> <p>(i) Ongoing operation and maintenance procedures in accordance with the general requirements of 40 CFR Section 63.8(c)(1), (3), and (4)(ii).</p> <p>(ii) Ongoing data quality assurance procedures in accordance with the general requirements of 40 CFR Section 63.8(d).</p> <p>(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of 40 CFR Section 63.10(c), (e)(1), and (e)(2)(i).</p> <p>(3) The Permittee must conduct a performance evaluation of each CMS in accordance with the site-specific monitoring plan.</p> <p>(4) The Permittee must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.</p>	
The Permittee must demonstrate continuous compliance with each applicable emission limit and operating limit in Tables 1 and 3 of subpart JJJJJJ according to the methods specified in Table 7 to subpart JJJJJJ.	40 CFR Section 63.11222(a)
Following the date on which the initial compliance demonstration is completed or is required to be completed under 40 CFR Sections 63.7 and 63.11196, whichever date comes first, the Permittee must continuously monitor the operating parameters. Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in 40 CFR Section 63.11222(a) constitutes a deviation from the operating limits established under 40 CFR pt. 63, subp. JJJJJJ except during performance tests conducted to determine compliance with the emission and operating limits or to establish new operating limits. Operating limits are confirmed or reestablished during performance tests.	40 CFR Section 63.11222(a)(1)
The Permittee must maintain each operating limit in Table 3 to subpart JJJJJJ that applies to each boiler as specified in Table 7 to subpart JJJJJJ. If the Permittee uses a control device not covered in Table 3 to subpart JJJJJJ, or the Permittee wishes to establish and monitor an alternative operating limit and alternative monitoring parameters, the Permittee must apply to the United States Environmental Protection Agency (EPA) Administrator for approval of alternative monitoring under 40 CFR Section 63.8(f).	40 CFR Section 63.11224(b)
<b>MONITORING REQUIREMENTS</b>	hdr
<p>The Permittee must install, operate, and maintain a CEMS for CO and oxygen according to the procedures in (1) through (6) listed below, by March 21, 2014. Where a certified CO CEMS is used, the CO level shall be monitored at the outlet of the boiler, after any add-on controls or flue gas recirculation system and before release to the atmosphere. Oxygen monitors and oxygen trim systems must be installed to monitor oxygen in the boiler flue gas, boiler firebox, or other appropriate intermediate location.</p>	40 CFR Section 63.11224(a)
(continued below)	
<p>(continued from above)</p> <p>(1) Each CO CEMS must be installed, operated, and maintained according to the applicable procedures under Performance Specification 4, 4A, or 4B at 40 CFR pt. 60, Appendix B, and each oxygen CEMS must be installed, operated, and maintained according to Performance Specification 3 at 40 CFR pt. 60, Appendix B. Both the CO and oxygen CEMS must be installed, operated, and maintained according to the site-specific monitoring plan developed according to 40 CFR Section 63.11224(c).</p> <p>(2) The Permittee must conduct a performance evaluation of each CEMS according to the requirements in 40 CFR Section 63.8(e) and according to Performance Specifications 3 and 4, 4A, or 4B at 40 CFR pt. 60, Appendix B.</p>	40 CFR Section 63.11224(a)
(continued below)	
<p>(continued from above)</p> <p>(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) every 15 minutes. The Permittee must have CEMS data values from a minimum of four successive cycles of operation representing each of the four 15-minute periods in an hour, or at least two 15-minute data values during an hour when CEMS calibration, quality assurance, or maintenance activities are being performed, to have a valid hour of data.</p> <p>(4) The CEMS data must be reduced as specified in 40 CFR Section 63.8(g)(2).</p>	40 CFR Section 63.11224(a)
(continued below)	

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-11****02/19/13**

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

<p>(continued from above)</p> <p>(5) The Permittee must calculate hourly averages, corrected to 3 percent oxygen, from each hour of CO CEMS data in parts per million CO concentrations and determine the 10-day rolling average of all recorded readings, except as provided in 40 CFR Section 63.11221(c). Calculate a 10-day rolling average from all of the hourly averages collected for the 10-day operating period using Equation 2 of 40 CFR Section 63.11224.</p> <p>(6) For purposes of collecting CO data, the Permittee must operate the CO CEMS as specified in 40 CFR Section 63.11221(b). For purposes of calculating data averages, the Permittee must use all the data collected during all periods in assessing compliance, except that the Permittee must exclude certain data as specified in 40 CFR Section 63.11221(c). Periods when CO data are unavailable may constitute monitoring deviations as specified in 40 CFR Section 63.11221(d).</p>	40 CFR Section 63.11224(a)
<p>OR</p> <p>If the Permittee does not install a CEMS for CO and oxygen, then the Permittee must install, calibrate, operate, and maintain an oxygen analyzer system, as defined in 40 CFR Section 63.11237, according to the manufacturer's recommendations and paragraphs (a)(7) and (d) of this section, as applicable by March 21, 2014. Oxygen monitors and oxygen trim systems must be installed to monitor oxygen in the boiler flue gas, boiler firebox, or other appropriate intermediate location.</p> <p>(7) The Permittee must operate the oxygen analyzer system at or above the minimum oxygen level that is established as the operating limit according to Table 6 to 40 CFR pt. 63, subp. JJJJJJ when firing the fuel or fuel mixture utilized during the most recent CO performance stack test. Operation of oxygen trim systems to meet these requirements shall not be done in a manner which compromises furnace safety.</p>	40 CFR Section 63.11224(a)
<p>The Permittee must install, operate, and maintain each CPMS according to the procedures in (1) through (4) as follows:</p> <p>(1) The CPMS must complete a minimum of one cycle of operation every 15 minutes. The Permittee must have data values from a minimum of four successive cycles of operation representing each of the four 15-minute periods in an hour, or as least two 15-minute data values during an hour when CMS calibration, quality assurance, or maintenance activities are being performed, to have a valid hour of data.</p> <p>(2) The Permittee must calculate hourly arithmetic averages from each hour of CPMS data in units of the operating limit and determine the 30-day rolling average of all recorded readings, except as provided in 40 CFR Section 63.11221(c). Calculate a 30-day rolling average from all of the hourly averages collected for the 30-day operating period using Equation 3 of 40 CFR Section 63.11224(d).</p> <p>(continued below)</p>	40 CFR Section 63.11224(d)
<p>(continued from above)</p> <p>(3) For purposes of collecting data, the Permittee must operate the CPMS as specified in 40 CFR Section 63.11221(b). For purposes of calculating data averages, the Permittee must use all the data collected during all periods in assessing compliance, except that the Permittee must exclude certain data as specified in 40 CFR Section 63.11221(c). Periods when CPMS data are unavailable may constitute monitoring deviations as specified in 40 CFR Section 63.11221(d).</p> <p>(4) Record the results of each inspection, calibration, and validation check.</p>	40 CFR Section 63.11224(d)
<p>The Permittee must monitor and collect data according to the site-specific monitoring plan required by 40 CFR Section 63.11205(c) and as follows:</p> <p>(b) The Permittee must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see 40 CFR Section 63.8(c)(7)), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data.</p> <p>(continued below)</p>	40 CFR Section 63.11221

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-12** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

(continued from above)	40 CFR Section 63.11221
<p>(b) Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee is required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable.</p> <p>(c) The Permittee may not use data collected during monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in 40 CFR Section 63.11225. The Permittee must use all the data collected during all other periods in assessing the operation of the control device and associated control system.</p>	
(continued below)	
(continued from above)	40 CFR Section 63.11221
(d) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities (including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in the site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements.	
PERFORMANCE TESTING REQUIREMENTS	hdr
<p>If the Permittee demonstrates compliance with emission limits through performance (stack) testing, the initial compliance requirements include conducting performance tests according to 40 CFR Section 63.11212 and Table 4 to 40 CFR pt. 63, subp. JJJJJJ, conducting a fuel analysis for each type of fuel burned in each affected boiler according to 40 CFR Section 63.11213 and Table 5 to 40 CFR pt. 63, subp. JJJJJJ, establishing operating limits according to 40 CFR Section 63.11222, Table 6 to 40 CFR pt. 63, subp. JJJJJJ and paragraph (b) of 40 CFR Section 63.11211, as applicable, and conducting CMS performance evaluations according to 40 CFR Section 63.11224.</p>	40 CFR Section 63.11211(a)
(continued below)	
(continued from above)	40 CFR Section 63.11211(a)
For affected boilers that burn a single type of fuel, the Permittee is exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in the affected boiler. For purposes of 40 CFR pt. 63, subp. JJJJJJ, boilers that use a supplemental fuel only for startup, unit shutdown, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under 40 CFR Section 63.11213 and Table 5 to 40 CFR pt. 63, subp. JJJJJJ.	
Boilers that use a CO CEMS are exempt from the initial CO performance testing and oxygen concentration operating limit requirements specified in 40 CFR Section 63.11211(a) of 40 CFR pt. 63, subp. JJJJJJ.	40 CFR Section 63.11224(a); 40 CFR Section 63.11212(b)
The Permittee must demonstrate initial compliance with each applicable emission limit no later than 180 days after March 21, 2014 and according to the applicable provisions in 40 CFR Section 63.7(a)(2) by conducting performance (stack) tests according to 40 CFR Section 63.11212 and Table 4 of 40 CFR pt. 63, subp. JJJJJJ (CO) or conducting fuel analyses, as applicable, according to 40 CFR Section 63.11213 and Table 5 of 40 CFR pt. 63, subp. JJJJJJ (mercury), except as provided in 40 CFR Section 63.11210(j).	40 CFR Section 63.11210(a) and (b)
<p>For existing affected boilers that have not operated between February 1, 2013 and March 21, 2014, the Permittee must comply with the applicable revisions as specified as follows:</p> <p>(1) The Permittee must complete the initial compliance demonstration as specified in 40 CFR Sections 63.11210(a) and (b) no later than 180 days after the re-start of the affected boiler and according to the applicable provisions in 40 CFR Section 63.7(a)(2).</p> <p>(3) The Permittee must complete the one-time energy assessment no later than March 21, 2014.</p>	40 CFR Section 63.11210(j)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-13****02/19/13**

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

<p>The Permittee must conduct fuel analyses according to 40 CFR Section 63.11213 and Table 5 to 40 CFR pt. 63, subp. JJJJJJ and follow the procedures in paragraphs (1) through (3) listed below.</p> <p>(1) If the Permittee burns more than one fuel type, the Permittee must determine the fuel type, or mixture, the Permittee could burn in the boiler that would result in the maximum emission rates of mercury.</p> <p>(2) The Permittee must determine the 90th percentile confidence level fuel mercury concentration of the composite samples analyzed for each fuel type using Equation 1 of 40 CFR Section 63.11211.</p> <p>(3) To demonstrate compliance with the applicable mercury emission limit, the emission rate that the Permittee calculates for the boilers using Equation 1 of 40 CFR Section 63.11211 must be less than the applicable mercury emission limit.</p>	40 CFR Section 63.11211(c)
<p>(a) The Permittee must conduct fuel analyses according to the procedures in 40 CFR Section 63.11213(b) and (c) and Table 5 of 40 CFR pt. 63, subp. JJJJJJ, as applicable. The Permittee is not required to conduct fuel analyses for fuels used for only startup, unit shutdown, and transient flame stability purposes. The Permittee is required to conduct fuel analyses only for fuels and units that are subject to emission limits for mercury in Table 1 of 40 CFR pt. 63, subp. JJJJJJ.</p> <p>(b) At a minimum, the Permittee must obtain three composite fuel samples for each fuel type according to the procedures in Table 5 to 40 CFR pt. 63, subp. JJJJJJ. Each composite sample must consist of a minimum of three samples collected at approximately equal intervals during a test run period.</p> <p>(c) Determine the concentration of mercury in the fuel in units of pounds per million Btu of each composite sample for each fuel type according to the procedures in Table 5 to 40 CFR pt. 63, subp. JJJJJJ.</p>	40 CFR Section 63.11213
<p>The Permittee may demonstrate compliance with mercury emission limits using fuel analysis if the emission rate calculated according to 40 CFR Section 63.11211(c) is less than the applicable emission limit. Otherwise, the Permittee must demonstrate compliance using stack testing.</p>	40 CFR Section 63.11205(b)
<p>(a) The Permittee must conduct all performance tests according to 40 CFR Section 63.7(c), (d), (f), and (h). The Permittee must also develop a site-specific test plan according to the requirements in 40 CFR Section 63.7(c).</p> <p>(b) The Permittee must conduct each stack test according to the requirements in Table 4 to 40 CFR pt. 63, subp. JJJJJJ. Boilers that use a CEMS for CO are exempt from the initial CO performance testing in Table 4 to 40 CFR pt. 63, subp. JJJJJJ and the oxygen concentration operating limit requirement specified in Table 3 to 40 CFR pt. 63, subp. JJJJJJ.</p> <p>(continued below)</p>	40 CFR Section 63.11212
<p>(continued from above)</p> <p>(c) The Permittee must conduct performance stack tests at the representative operating load conditions while burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and the Permittee must demonstrate initial compliance and establish operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. Following each performance stack test and until the next performance stack test, the Permittee must comply with the operating limit for operating load conditions specified in Table 3 to 40 CFR pt. 63, subp. JJJJJJ.</p> <p>(continued below)</p>	40 CFR Section 63.11212
<p>(continued from above)</p> <p>(d) The Permittee must conduct a minimum of three separate test runs for each performance stack test required in 40 CFR Section 63.11212, as specified in 40 CFR Section 63.7(e)(3) and in accordance with the provisions in Table 4 to 40 CFR pt. 63, subp. JJJJJJ.</p> <p>(e) To determine compliance with the emission limits, the Permittee must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A-7 to part 60 of this chapter to convert the measured PM concentrations and the measured mercury concentrations that result from the performance test to pounds per million Btu heat input emission rates.</p>	40 CFR Section 63.11212
<p>Performance Test: due before end of each 37 months after Initial Performance Test to measure CO emissions. The Permittee shall conduct performance tests according to 40 CFR Section 63.11212 on a triennial basis, except as provided in 40 CFR Section 63.11220(c)-(d). Each triennial performance test must be conducted no more than 37 months after the previous performance test.</p>	40 CFR Section 63.11220(a)



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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

Conduct fuel analysis according to 40 CFR Section 63.11213 for each type of fuel burned as specified as follows: (1) When demonstrating initial compliance with the mercury emission limit, if the mercury constituents in the fuel or fuel mixture are measured to be equal to or less than half of the mercury emission limit, the Permittee does not need to conduct further fuel analysis sampling but must continue to comply with all applicable operating limits and monitoring requirements. (2) When demonstrating initial compliance with the mercury emission limit, if the mercury constituents in the fuel or fuel mixture are greater than half of the mercury emission limit, the Permittee must conduct quarterly sampling.	40 CFR Section 63.11220(c)
If an affected boiler has not operated since the previous compliance demonstration and more than 3 years have passed since the previous compliance demonstration, the Permittee must complete the subsequent compliance demonstration no later than 180 days after the re-start of the affected boiler.	40 CFR Section 63.11220(d)
<b>RECORDKEEPING</b>	hdr
The Permittee must maintain the following records: (1) A copy of each notification and report that was submitted to comply with 40 CFR pt. 63, subp. JJJJJJ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, as required by 40 CFR Section 63.10(b)(2)(xiv); (2) Records to document conformance with 40 CFR Sections 63.11214 and 63.11223 as specified as follows: (iii) For each boiler required to conduct an energy assessment, the Permittee must keep a copy of the energy assessment report. (iv) For each boiler subject to an emission limit in Table 1 to 40 CFR pt. 63, subp. JJJJJJ, the Permittee must also keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used.  (continued below)	40 CFR Section 63.11225(c)
(continued from above)  (3) For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation that were done to demonstrate compliance with the mercury emission limits. Supporting documentation should include results of any fuel analyses. The Permittee can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type. (4) Records of the occurrence and duration of each malfunction of each boiler or of the associated air pollution control and monitoring equipment. (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR Section 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.  (continued below)	40 CFR Section 63.11225(c)
(continued from above)  (6) Records of all inspection and monitoring data as required by 40 CFR Sections 63.11221 and 63.11222, and the information identified below for each required inspection or monitoring: (i) The date, place, and time of the monitoring event; (ii) Person conducting the monitoring; (iii) Technique or method used; (iv) Operating conditions during the activity; (v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation; (vi) Maintenance or corrective action taken (if applicable).	40 CFR Section 63.11225(c)
Records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years.	40 CFR Section 63.11225(d)
The Permittee must keep records of the type and amount of all fuels burned in each boiler during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in lower emissions of mercury than the applicable emission limit (if the Permittee demonstrates compliance through fuel analysis), or result in lower fuel input of mercury than the maximum values calculated during the last performance stack test (if the Permittee demonstrates compliance through performance stack testing).	40 CFR Section 63.11222(a)(2)

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

REPORTING AND NOTIFICATION REQUIREMENTS	hdr
<p>The Permittee must prepare by March 1 of each year and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information described below. The Permittee must submit the annual compliance report by March 15 if the Permittee had any instance described by item 3 below.</p> <p>(1) Company name and address</p> <p>(2) Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR pt. 63, subp. JJJJJJ. The notification must include the following certifications of compliance, as applicable, and signed by a responsible official.</p> <p>(continued below)</p>	40 CFR Sections 63.11225(b)
<p>(continued from above)</p> <p>(iii) "This facility complies with the requirement in 40 CFR Section 63.11214(d) and 40 CFR Section 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."</p> <p>(3) Include a description of deviations from the applicable requirements during the reporting period, the time periods during which the deviations occurred, and the corrective actions taken.</p> <p>(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.</p>	40 CFR Sections 63.11225(b)
<p>Notification of compliance status: due 120 days after the applicable compliance date. The notification must include the following certifications of compliance, as applicable and signed by a responsible official:</p> <p>(i) The Permittee must submit the information require in 40 CFR Section 63.9(h)(2), except the information listed in 40 CFR Section 63.9(h)(2)(i)(B), (D), (E) and (F). If the Permittee conducts any performance tests or CMS performance evaluations, the Permittee must submit that data as specified in 40 CFR Section 63.11225(e). If the Permittee conducts any opacity or visible emission observations, or other monitoring procedures or methods, the Permittee must submit that data to the Administrator at the appropriate address listed in 40 CFR Section 63.13.</p> <p>(continued below)</p>	40 CFR Section 63.11225(a)(4); 40 CFR 63.11214(c)
<p>(continued from above)</p> <p>(vi) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX). However, if the reporting form specific to 40 CFR pt. 63, subp. JJJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in 40 CFR Section 63.13.</p>	40 CFR Section 63.11225(a)(4); 40 CFR 63.11214(c)
<p>The Permittee must submit all of the notifications in 40 CFR Sections 63.7(b); 63.8(e) and (f); 63.9(b) through (e), (g) and (h) that apply by the dates specified in those sections except as specified in 40 CFR Section 63.11225(a)(2) and (4).</p>	40 CFR Section 63.11225(a)(1)
<p>The Permittee must report each instance in which each applicable emission limit and operating limit in Tables 1 and 3 of 40 CFR pt. 63, subp. JJJJJJ are not met. These instances are deviations from the emission limits in 40 CFR pt. 63, subp. JJJJJJ. These deviations must be reported according to the requirements in 40 CFR Section 63.11225.</p>	40 CFR Section 63.11222(b)
<p>If the Permittee is using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of 40 CFR pt. 63, subp. JJJJJJ, the Permittee must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to 40 CFR pt. 63, subp. JJJJJJ.</p>	40 CFR Section 63.11225(a)(5)
<p>(1) Within 60 days after the date of completing each performance test (defined in 40 CFR Section 63.2) as required by 40 CFR pt. 63, subp. JJJJJJ, the Permittee must submit the results of the performance tests, including any associated fuel analyses, to EPA's WebFIRE database as required by 40 CFR Section 63.11225(e)(1).</p> <p>(2) Within 60 days after the date of completing each CEMS performance evaluation test as defined in 40 CFR Section 63.2, the Permittee must submit relative accuracy test audit data as required by 40 CFR Section 63.11225(e)(2).</p>	40 CFR Section 63.11225(e)

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

The Permittee must submit the Initial Notification no later than January 20, 2014 or within 120 calendar days after the source becomes subject to the standard.	40 CFR Section 63.11225(a)(2)
Performance Test Notification (written): due 60 days before Performance test for each performance test required by subpart JJJJJJ.	40 CFR Section 63.11225(a)(3)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

A-17 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** GP 006 Existing Fuel Oil Boilers Subject to 40 CFR Part 63 JJJJJJ**Associated Items:** EU 005 Boiler #5

EU 013 Boiler #6

What to do	Why to do it
Additional requirements are located at the EU level for the boilers.	hdr
Requirements under 40 CFR pt. 63, Subpart JJJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	hdr
Enforcement not delegated to MPCA.	
OPERATIONAL REQUIREMENTS	hdr
The Permittee must comply with the requirement to conduct an energy assessment no later than March 21, 2014.	40 CFR Section 63.11196(a)(3)
The Permittee must comply with the requirement to conduct a tune-up no later than March 21, 2014.	40 CFR Section 63.11196(a)(1)
At all times the Permittee must operate and maintain affected boilers, 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 this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	40 CFR Section 63.11205(a)
The Permittee must demonstrate initial compliance with each applicable work practice standard, management practice, or emission reduction measure no later than March 21, 2014 and according to the applicable provisions in 40 CFR Section 63.7(a)(2).	40 CFR Section 63.11210(c)
The Permittee must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 2 to 40 CFR pt. 63, subp. JJJJJJ satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include: (1) A visual inspection of the boiler system; (2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;  (continued below)	40 CFR 63.11201(b); 40 CFR Section 63, subp. JJJJJJ, Table 2
(continued from above)  (3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator; (4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage; (5) A list of major energy conservation measures that are within the facility's control; (6) A list of the energy savings potential of the energy conservation measures identified; and (7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.	40 CFR 63.11201(b); 40 CFR Section 63, subp. JJJJJJ, Table 2
The Permittee must conduct a tune-up for each boiler biennially as specified in 40 CFR Section 63.11223 and keep records as required in 40 CFR Section 63.11225(c) to demonstrate continuous compliance. The tune-up must be conducted while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.	40 CFR Section 63.11201(b); 40 CFR Section 63.11223(a); 40 CFR Section 63, subp. JJJJJJ, Table 2

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

<p>The Permittee must conduct a tune-up of the boiler biennially, not to be conducted more than 25 months after the previous tune-up, to demonstrate continuous compliance as specified in (1) through (7) as follows:</p> <p>(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.</p> <p>(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (the Permittee may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).</p> <p>(continued below)</p>	40 CFR Section 63.11223(b)
<p>(continued from above)</p> <p>(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.</p> <p>(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).</p> <p>(continued below)</p>	40 CFR Section 63.11223(b)
<p>(continued from above)</p> <p>(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in (i) through (iii) as follows:</p> <p>(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.</p> <p>(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.</p> <p>(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.</p> <p>(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.</p>	40 CFR Section 63.11223(b)
<p>The standards in 40 CFR Section 63.11201 apply at all times the affected boilers are operating, except during periods of startup and shutdown as defined in 40 CFR Section 63.11237, during which time the Permittee must comply only with Table 2 to 40 CFR pt. 63, subp. JJJJJJ.</p>	40 CFR Section 63.11201(d)
<p>The Permittee must comply with the General Provisions as applicable in Table 8 of 40 CFR pt. 63, subp. JJJJJJ.</p>	40 CFR Section 63.11235; 40 CFR pt. 63 subp. JJJJJJ, Table 8
<p>The Permittee must maintain the following records:</p> <p>(1) A copy of each notification and report that was submitted to comply with 40 CFR pt. 63, subp. JJJJJJ, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, as required by 40 CFR Section 63.10(b)(2)(xiv);</p> <p>(2) Records to document conformance with 40 CFR Sections 63.11214 and 63.11223 as specified as follows:</p> <p>(i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.</p> <p>(iii) For each boiler required to conduct an energy assessment, the Permittee must keep a copy of the energy assessment report.</p> <p>(continued below)</p>	40 CFR Section 63.11225(c)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-19**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

(continued from above)	40 CFR Section 63.11225(c)
<p>(3) For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation that were done to demonstrate compliance with the mercury emission limits. Supporting documentation should include results of any fuel analyses. The Permittee can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type.</p> <p>(4) Records of the occurrence and duration of each malfunction of each boiler or of the associated air pollution control and monitoring equipment.</p> <p>(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR Section 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.</p>	
(continued below)	
<p>(continued from above)</p> <p>(6) Records of all inspection and monitoring data as required by 40 CFR Sections 63.11221 and 63.11222, and the information identified below for each required inspection or monitoring:</p> <p>(i) The date, place, and time of the monitoring event;</p> <p>(ii) Person conducting the monitoring;</p> <p>(iii) Technique or method used;</p> <p>(iv) Operating conditions during the activity;</p> <p>(v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation;</p> <p>(vi) Maintenance or corrective action taken (if applicable).</p>	40 CFR Section 63.11225(c)
<p>Records must be in a form suitable and readily available for expeditious review. The Permittee must keep each record for 5 years following the date of each recorded action. The Permittee must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years.</p>	40 CFR Section 63.11225(d)
REPORTING AND NOTIFICATION REQUIREMENTS	hdr
<p>The Permittee must prepare by March 1 of each year, and submit to the Administrator upon request, an annual compliance certification report for the previous calendar year containing the information described below. The Permittee must submit the annual compliance report by March 15 if the Permittee had any instance described by item 3 below.</p> <p>(1) Company name and address</p> <p>(2) Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 CFR pt. 63, subp. JJJJJJ. The notification must include the following certifications of compliance, as applicable, and signed by a responsible official.</p> <p>(i) "This facility complies with the requirements in 40 CFR Section 63.11223 to conduct a biennial tune-up of each boiler."</p>	40 CFR Sections 63.11225(b)
(continued below)	
<p>(continued from above)</p> <p>(iii) "This facility complies with the requirement in 40 CFR Section 63.11214(d) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."</p> <p>(3) Include a description of deviations from the applicable requirements during the reporting period, the time periods during which the deviations occurred, and the corrective actions taken.</p>	40 CFR Sections 63.11225(b)

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

<p>Notification of compliance status: due 120 days after the applicable compliance date. The notification must include the following certifications of compliance, as applicable and signed by a responsible official:</p> <p>(i) The Permittee must submit the information require in 40 CFR Section 63.9(h)(2), except the information listed in 40 CFR Section 63.9(h)(2)(i)(B), (D), (E) and (F). If the Permittee conducts any performance tests or CMS performance evaluations, the Permittee must submit that data as specified in paragraph (e) of this section. If you conduct any opacity or visible emission observations, or other monitoring procedures or methods, the Permittee must submit that data to the Administrator at the appropriate address listed in 40 CFR Section 63.13.</p> <p>(continued below)</p>	40 CFR Section 63.11225(a)(4); 40 CFR 63.11214(c)
<p>(continued from above)</p> <p>(ii) "This facility complies with the requirements in 40 CFR Section 63.11214 to conduct an initial tune-up of the boiler."</p> <p>(iii) "This facility has had an energy assessment performed according to 40 CFR Section 63.11214(c)."</p> <p>(vi) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX). However, if the reporting form specific to 40 CFR pt. 63, subp. JJJJJ is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator.</p>	40 CFR Section 63.11225(a)(4); 40 CFR 63.11214(c)
The Permittee must conduct a performance tune-up according to 40 CFR Section 63.11223(b) and submit a signed statement in the Notification of Compliance Status report that indicates that the Permittee conducted a tune-up of the boiler.	40 CFR Section 63.11214(b)
The Permittee must submit all of the notifications in 40 CFR Sections 63.7(b); 63.8(e) and (f); 63.9(b) through (e), (g) and (h) that apply by the dates specified in those sections except as specified in 40 CFR Section 63.11225(a)(2) and (4).	40 CFR Section 63.11225(a)(1)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-21**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 001 Boiler #1**Associated Items:** GP 001 Sulfur Dioxide Limit

GP 005 Existing Coal Boilers Subject to 40 CFR Part 63 JJJJJJ

SV 001 Boiler 1, 2, and 3

What to do	Why to do it
Additional requirements are located at the GP 001 and GP 005 level.	hdr
<b>EMISSION LIMITS</b>	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input .	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0510, subp. 2
<b>OPERATING CONDITIONS</b>	hdr
Fuel Usage: limited to bituminous and subbituminous coal for Boiler #1.	Minn. R. 7007.0800, subp. 2 Minn. R. ch. 7009
Bituminous coal shall be used only as a supplemental fuel to subbituminous coal for Boiler #1 and not as a primary fuel source. The bituminous coal shall only be used when subbituminous coal shipments from the supplier are unable to meet the fuel demands of Boiler #1. All permitted emission limits met by subbituminous coal usage must also be met by bituminous coal usage.	Minn. R. 7007.0800, subp. 2
<b>PERFORMANCE TESTING</b>	hdr
Performance Test: due before end of each 60 months starting 03/17/2010 to measure total particulate matter and opacity emissions, not to exceed 60 months between test dates, or within 90 days of resuming burning coal if coal is not burned before 03/17/2015.  For additional applicable performance requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
<b>MONITORING</b>	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from Boiler #1. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4



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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 002 Boiler #2**Associated Items:** GP 001 Sulfur Dioxide Limit

GP 005 Existing Coal Boilers Subject to 40 CFR Part 63 JJJJJJ

SV 001 Boiler 1, 2, and 3

What to do	Why to do it
Additional requirements are located at the GP 001 and GP 005 level.	hdr
<b>EMISSION LIMITS</b>	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input .	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0510, subp. 2
<b>OPERATING CONDITIONS</b>	hdr
Fuel Usage: limited to bituminous and subbituminous coal for Boiler #2.	Minn. R. 7007.0800, subp. 2 Minn. R. ch. 7009
Bituminous coal shall be used only as a supplemental fuel to subbituminous coal for Boiler #2 and not as a primary fuel source. The bituminous coal shall only be used when subbituminous coal shipments from the supplier are unable to meet the fuel demands of Boiler #2. All permitted emission limits met by subbituminous coal usage must also be met by bituminous coal usage.	Minn. R. 7007.0800, subp. 2
<b>PERFORMANCE TESTING</b>	hdr
Performance Test: due before end of each 60 months starting 03/17/2010 to measure total particulate matter and opacity emissions, not to exceed 60 months between test dates, or within 90 days of resuming burning coal if coal is not burned before 03/17/2015.  For additional applicable performance requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.2020, subp. 1
<b>MONITORING</b>	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from Boiler #2. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 003 Boiler #3**Associated Items:** GP 001 Sulfur Dioxide Limit

SV 001 Boiler 1, 2, and 3

What to do	Why to do it
Additional requirements are located at the GP 001 level.	hdr
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input . The PTE of EU 003 is 0.0075 lbs PM/million BTU heat input when burning natural gas, therefore, compliance with the fuel usage requirement indicates compliance with the total particulate matter emission limit.	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0510, subp. 2
OPERATING CONDITIONS	hdr
Fuel Usage: limited to natural gas for Boiler #3.	Minn. R. 7007.0800, subp. 2 Minn. R. ch. 7009
MONITORING	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from Boiler #3. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 004 Boiler #4**Associated Items:** CE 002 Fabric Filter - High Temperature, i.e., T>250 Degrees F

GP 001 Sulfur Dioxide Limit

GP 005 Existing Coal Boilers Subject to 40 CFR Part 63 JJJJJJ

SV 013 Boiler 4 (new stack)

What to do	Why to do it
Additional requirements are located at the GP 001 and GP 005 level.	hdr
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.051 lbs/million Btu heat input .  This limit applies at all times except startup, shutdown and malfunction.	40 CFR Section 60.43c(a)(1) and Minn. R. 7011.0570
Opacity: less than or equal to 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.  This limit applies at all times except startup, shutdown and malfunction.	40 CFR Section 60.43c(c) and Minn. R. 7011.0570
Sulfur Dioxide: less than or equal to 1.2 lbs/million Btu heat input	40 CFR Section 60.42c(e)(2) and Minn. R. 7011.0570
OPERATING CONDITIONS	hdr
Fuel Usage: limited to bituminous and subbituminous coal for Boiler #4	Minn. R. 7007.0800, subp.2 Minn. R. ch. 7009
Bituminous coal shall be used only as a supplemental fuel to subbituminous coal for Boiler #4 and not as a primary fuel source. The bituminous coal shall only be used when subbituminous coal shipments from the supplier are unable to meet the fuel demands of Boiler #4. All permitted emission limits met by subbituminous coal usage must also be met by bituminous coal usage.	Minn. R. 7007.0800, subp. 2
POLLUTION CONTROL EQUIPMENT	hdr
Pressure Drop: greater than or equal to 0.25 inches of water column , unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a permit amendment incorporating the change.	40 CFR Part 64; Minn. R. 7017.0200; Minn. R. 7007.0800, subps. 2 and 14
Recordkeeping of Pressure Drop: Once each operating day, the Permittee shall record the time and date of each pressure drop reading, and whether or not the observed pressure drop was within the range specified in this permit. Recorded values outside the range specified in this permit are considered Deviations as defined by Minn. R. 7007.0100, subp. 8a.	40 CFR 64.3; Minn. R. 7007.0800, subp. 2 and 14 Minn. R. 7017.0200
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components when the boiler is in operation. The Permittee shall maintain a written record of these inspections.	40 CFR Section 64.3; Minn. R. 7017.0200
Daily Inspections: The Permittee shall do the following, once every 24 hours while the boiler is in operation: 1). Inspect the fabric filter stack (SV013) for any visible emissions during daylight hours, except during inclement weather. 2). During inclement weather, read and record the pressure drop across the fabric filter.	40 CFR Section 64.3; Minn. R. 7017.0200
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; or - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, 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 fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	40 CFR Section 64.7(d); Minn. R. 7017.0200
The Permittee shall calibrate the pressure gauge at least once every 12 months and shall maintain a written record of any action resulting from the calibration.	40 CFR Section 64.3; Minn. R. 7017.0200

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

Documentation of Need for Improved Monitoring: If the Permittee fails to achieve compliance with an emission limitation or standard for which the monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing pressure drop range, the Permittee shall promptly notify the MPCA and, if necessary, submit a permit amendment application to address the necessary monitoring change.	40 CFR Section 64.7(e); Minn. R. 7017.0200
As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Deviations Report listed in Table B of this permit and/or the Notification of Deviations Endangering Human Health and the Environment listed earlier in Table A of this permit, as applicable, the Permittee shall include the following related to the monitoring identified as required by 40 CFR pt. 64:1) Summary information on the number, duration, and cause of excursions or exceedances, as applicable, and the corrective action taken; and 2) Summary information on the number, duration, and cause for monitor downtime incidents.	40 CFR Section 64.9(a)(2); Minn. R. 7017.0200
The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, and other supporting information required to be maintained. The Permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.9(b); Minn. R. 7017.0200
<b>PERFORMANCE TESTS</b>	hdr
Performance Test: due before end of each 60 months starting 10/13/2011 to measure particulate matter emissions and opacity, not to exceed 60 months between test dates, or within 90 days of resuming burning coal if coal is not burned before 10/13/2016. The performance test will use the methods specified in 40 CFR Section 60.45c and Section 60.13.  For additional applicable performance requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	40 CFR Section 60.8 40 CFR Part 64
Daily Performance Test: for sulfur dioxide as stated below.  (h) For affected facilities subject to 40 CFR Section 60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO <sub>2</sub> standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described under 40 CFR Section 60.48c(f)(1), (2), or (3), as applicable.	40 CFR Section 60.44c(b), 40 CFR Section 60.8 and Minn. R. 7011.0570
Performance Test: due 90 days after achieving maximum capacity while burning coal with a chlorine content greater than 0.07% wt. The testing shall be for HCl and Cl emissions. The emission factors developed from stack testing shall be used in the calculation of total facility HAP emissions to verify that the source remains non-major as defined by 40 CFR Part 63.	Title I Condition: to avoid major source classification under 40 CFR Section 63.2
<b>MONITORING</b>	hdr
(c) After the initial performance test required under paragraph (b) and 40 CFR Section 60.8, compliance with the SO <sub>2</sub> emission limits under 40 CFR Section 60.42c is based on the average SO <sub>2</sub> emission rates for 30 consecutive steam generating unit operating days. A separate performance test is completed at the end of each steam generating unit operating day, and a new 30-day average SO <sub>2</sub> emission rate is calculated to show compliance with the standard.  (d) If only coal, only oil, or a mixture of coal and oil is combusted in an affected facility, the procedures in Method 19 are used to determine the hourly SO <sub>2</sub> emission rate (E <sub>ho</sub> ) and the 30-day average SO <sub>2</sub> emission rate (E <sub>ao</sub> ). The hourly averages used to compute the 30-day averages are obtained from the continuous emission monitoring system (CEMS). Method 19 shall be used to calculate E <sub>ao</sub> when using daily fuel sampling or Method 6B.	40 CFR Section 60.44c(c) and (d), and Minn. R. 7011.0570
(d) As an alternative to operating a CEMS at the inlet to the SO <sub>2</sub> control device (or outlet of the steam generating unit if no SO <sub>2</sub> control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO <sub>2</sub> emission rate by sampling the fuel prior to combustion. As an alternative to operating a CEMS at the outlet from the SO <sub>2</sub> control device (or outlet of the steam generating unit if no SO <sub>2</sub> control device is used) as required under paragraph (a) of this section, an owner or operator may elect to determine the average SO <sub>2</sub> emission rate by using Method 6B. Fuel sampling shall be conducted pursuant to either paragraph (d)(1) or (d)(2) of this section. Method 6B shall be conducted pursuant to paragraph (d)(3) of this section.	40 CFR Section 60.46c(d) and Minn. R. 7011.0570

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

(1) For affected facilities combusting coal or oil, coal or oil samples shall be collected daily in an as-fired condition at the inlet to the steam generating unit and analyzed for sulfur content and heat content according the Method 19. Method 19 provides procedures for converting these measurements into the format to be used in calculating the average SO <sub>2</sub> input rate.	40 CFR Section 60.46c(d) and Minn. R. 7011.0570
(3) Method 6B may be used in lieu of CEMS to measure SO <sub>2</sub> at the inlet or outlet of the SO <sub>2</sub> control system. An initial stratification test is required to verify the adequacy of the Method 6B sampling location. The stratification test shall consist of three paired runs of a suitable SO <sub>2</sub> and carbon dioxide measurement train operated at the candidate location and a second similar train operated according to the procedures in Section 3.2 and the applicable procedures in section 7 of Performance Specification 2 (appendix B).	40 CFR Section 60.46c(d) and Minn. R. 7011.0570
Method 6B, Method 6A, or a combination of Methods 6 and 3 or Methods 6C and 3A are suitable measurement techniques. If Method 6B is used for the second train, sampling time and timer operation may be adjusted for the stratification test as long as an adequate sample volume is collected; however, both sampling trains are to be operated similarly. For the location to be adequate for Method 6B 24-hour tests, the mean of the absolute difference between the three paired runs must be less than 10 percent (0.10).	40 CFR Section 60.46c(d) and Minn. R. 7011.0570
(a) The owner or operator of an affected facility combusting coal, residual oil, or wood that is subject to the opacity standards under 40 CFR Section 60.43c shall install, calibrate, maintain, and operate a COMS for measuring the opacity of the emissions discharged to the atmosphere and record the output of the system.  (b) All COMS for measuring opacity shall be operated in accordance with the applicable procedures under Performance Specification 1 (appendix B). The span value of the opacity COMS shall be between 60 and 80 percent.	40 CFR Section 60.47c(a) and (b)
<b>RECORDKEEPING AND REPORTING</b>	hdr
Application for major permit amendment: Submit an application for a major amendment to set total facility hazardous air pollutant limits if emission testing for HCl or Cl shows that the facility would exceed major source thresholds as defined by 40 CFR Part 63.  The application is to be submitted with the performance test results, and specify a compliance plan for demonstrating that annual emissions of hazardous air pollutants do not exceed major source thresholds.	Title I Condition: to avoid major source classification under 40 CFR Section 63.2; Minn. R. 7007.0200
(4) Submit a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR Section 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.	40 CFR Section 60.7(a)(4)
(5) Submit a notification of the date upon which demonstration of the continuous monitoring system performance commences in accordance with 40 CFR Section 60.13(c). Notification shall be postmarked not less than 30 days prior to such date.	40 CFR Section 60.7(a)(5)
(7) Submit a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during a performance test required by 40 CFR Section 60.8 in lieu of Method 9 observation data as allowed by 40 CFR Section 60.11(e)(5) of this part. This notification shall be postmarked not less than 30 days prior to the date of the performance test.	40 CFR Section 60.7(a)(7)
(b) Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b)

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-27** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

(b) The owner or operator of each affected facility subject to the SO <sub>2</sub> emission limits of 40 CFR Section 60.42c, or the PM or opacity limits of 40 CFR Section 60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B.	40 CFR Section 60.48c(b) and Minn. R. 7011.0570
(c) The owner or operator of each coal-fired affected facility subject to the opacity limits under 40 CFR Section 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility which occur during the reporting period.	40 CFR Section 60.48c(c) and Minn. R. 7011.0570
(d) The owner or operator of each affected facility subject to the SO <sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under 40 CFR Section 60.42c shall submit reports to the Administrator.	40 CFR Section 60.48c(d) and Minn. R. 7011.0570
(e) The owner or operator of each affected facility subject to the SO <sub>2</sub> emission limits, under 40 CFR Section 60.43c shall keep records and submit reports as required under paragraph (d) of this section, including the following information, as applicable.  (1) Calendar dates covered in the reporting period.	40 CFR Section 60.48c(e) and Minn. R. 7011.0570
(11) If fuel supplier certification is used to demonstrate compliance, keep records of fuel supplier certification as described under paragraph (f)(3) of this section, as applicable. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.	40 CFR Section 60.48c(e)(11) and Minn. R. 7011.0570
(f) Fuel supplier certification shall include the following information:  (3) For coal:  (i) The name of the coal supplier;  (ii) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the sample was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected);  (iii) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and  (iv) The methods used to determine the properties of the coal.	40 CFR Section 60.48c(f)(3) and Minn. R. 7011.0570
(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.	40 CFR Section 60.48c(g) and Minn. R. 7011.0570
(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.  (j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.	40 CFR Section 60.48c(i) and (j) and Minn. R. 7011.0570
Maintain records of fuel chlorine content of all fuel burned on site. Chlorine content of the fuel may be determined by a fuel supplier certification supplied by the fuel company kept on site or fuel sampling of each delivery of fuel. If fuel supplier certification is used the Permittee shall obtain a single certification from the fuel supplier guaranteeing a maximum chlorine content in all fuel deliveries thereafter. The single certification shall also state that the supplier will notify the Permittee in writing on the date of delivery of fuel with a sulfur content exceeding the guaranteed maximum, that the fuel sulfur content exceeds the guaranteed maximum value. The certification must be renewed annually at the beginning of each calendar year.	Title I Condition: to avoid major source classification under 40 CFR Section 52.21 and Minn. R. 7007.3000

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

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 005 Boiler #5**Associated Items:** GP 001 Sulfur Dioxide Limit

GP 006 Existing Fuel Oil Boilers Subject to 40 CFR Part 63 JJJJJJ

SV 003 Boiler 5

What to do	Why to do it
Additional requirements are located at the GP 001 and GP 006 level.	hdr
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input . The PTE of EU 005 is 0.014 lbs/million BTU heat input when burning distillate oil, therefore, compliance with the fuel usage requirement indicates compliance with the total particulate matter emission limit.	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0510, subp. 2
OPERATING CONDITIONS	hdr
Fuel Usage: limited to natural gas and distillate oil with a sulfur content not exceeding 0.05% by weight for Boiler #5.	Minn. R. 7007.0800, subp. 2 Minn. R. ch. 7009
MONITORING	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from Boiler #5. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4
Fuel Supplier Certification Content: the certification shall include the name of the oil supplier and a statement from the supplier that the oil complies with the fuel oil sulfur limit in this permit, 0.05 % sulfur by weight.	Minn. R. 7007.0800 subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-29**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 009 Kiln #1 (natural gas)**Associated Items:** GP 001 Sulfur Dioxide Limit

SV 006 Kiln #1

What to do	Why to do it
Additional requirements are located at the GP 001 level.	hdr
EMISSION LIMITS	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . The PTE of EU 009 is 0.0075 lbs/million BTU heat input when burning natural gas, therefore, compliance with the fuel usage requirement indicates compliance with the total particulate matter emission limit.	Minn. R. 7011.0515, subp. 1
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0515, subp. 2
OPERATING CONDITIONS	hdr
Fuel Usage: limited to natural gas.	Minn. R. 7007.0800, subp. 2
MONITORING	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from Kiln #1. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4



**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-30**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 010 Kiln #2 (wood)**Associated Items:** GP 001 Sulfur Dioxide Limit

SV 007 Kiln #2

What to do	Why to do it
Additional requirements are located at the GP 001 level.	hdr
<b>EMISSION LIMITS</b>	hdr
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input . The PTE of EU 010 is 0.33 lbs/million BTU heat input, therefore, compliance with the fuel usage requirement indicates compliance with the total particulate matter emission limit.	Minn. R. 7011.0515, subp. 1
PM < 10 micron: less than or equal to 0.83 lbs/hour based on a 24 hour average. The emission rate will be calculated using AP42 factors and the equation given in Appendix IV to this permit.	Minn. R. ch. 7009
The PTE of EU 010 is 0.58 lbs/hr, therefore, compliance with the fuel usage requirement indicates compliance with the PM10 emission limit.	
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0515 subp. 2
<b>OPERATING CONDITIONS</b>	hdr
Fuel Usage: limited to wood.	Minn. R. 7007.0800, subp. 2
Operation limited to 30 days per year and to operation during September, October and November.	Minn. R. ch. 7009
<b>MONITORING</b>	hdr
Monitoring: once each day during operation the Permittee shall monitor and record the presence or absence of visible emissions from each emission unit. If visible emissions are observed, the Permittee shall take corrective action as soon as possible and make a record of the corrective action taken.	Minn. R. 7007.0800, subp. 4
Record each day of operation, including the date.	Minn. R. 7007.0800, subp. 2
Wood shall meet the definition of Clean Cellulosic Biomass as defined at 40 CFR Section 241.2. Clean cellulosic biomass means those residuals that are akin to traditional cellulosic biomass such as forest-derived biomass (e.g., green wood, forest thinnings, clean and unadulterated bark, sawdust, trim, and tree harvesting residuals from logging and sawmill materials), corn stover and other biomass crops used specifically for energy production (e.g., energy cane, other fast growing grasses), bagasse and other crop residues (e.g., peanut shells), wood collected from forest fire clearance activities, trees and clean wood found in disaster debris, clean biomass from land clearing operations, and clean construction and demolition wood. These fuels are not secondary materials or solid wastes unless discarded. Clean biomass is biomass that does not contain contaminants at concentrations not normally associated with virgin biomass materials.	40 CFR Section 241.2; Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS****A-31**

02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

**Subject Item:** EU 013 Boiler #6**Associated Items:** GP 001 Sulfur Dioxide Limit

GP 006 Existing Fuel Oil Boilers Subject to 40 CFR Part 63 JJJJJJ

SV 010 Boiler 6

What to do	Why to do it
Additional requirements are located at the GP 001 and GP 006 level.	hdr
Fuels allowed: natural gas and distillate fuel oil	Title I Condition: limit to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Sulfur Content of Fuel: less than or equal to 0.05 percent by weight sulfur in distillate fuel oil	Minn. R. 7009, also meets the requirements of 40 CFR Section 60.42c(d); Minn. R. 7011.0570
Opacity: less than or equal to 20 percent opacity using 6-minute Average when burning oil, except for one 6-minute period per hour of not more than 27 percent opacity. This limit does not apply during periods of startup, shutdown, or malfunction.	40 CFR Section 60.43c(c); Minn. R. 7011.0570
Performance Test: due before end of each 60 months starting 12/16/2010 to measure opacity from SV 010 while combusting distillate fuel oil.  For additional applicable performance requirements see "General Performance Test Requirements" in Table A, subject item "Total Facility".	40 CFR Section 60.45c(a); Minn. R. 7011.0570
Semiannual Compliance Report Contents: the semiannual compliance report must contain the following: 1) Calendar dates covered in the reporting period; 2) Records of fuel supplier certification including the name of the fuel oil supplier, a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR Section 60.41c, and the sulfur content or maximum sulfur content of the oil; and 3) A certified statement signed by the Permittee that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.	40 CFR Section 60.48c(e); Minn. R. 7011.0570
Fuel Supplier Certification Content: the certification shall include the name of the oil supplier and a statement from the supplier that the oil complies with the fuel oil sulfur limit in this permit, 0.05 % sulfur by weight.	40 CFR Section 60.48c(f); Minn. R. 7011.0570
Recordkeeping: record and maintain records of the amounts of each fuel combusted during each month.	40 CFR Section 60.48c(g); Minn. R. 7011.0570

## TABLE B: SUBMITTALS

B-1 02/19/13

Facility Name: Order of St Benedict/St John's Abbey  
Permit Number: 14500008 - 005

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:

Chief Air Enforcement  
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.

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

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.

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** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification	due 30 days before Initial Fuel Analysis of coal to be burned in the boilers that has a chlorine content greater than 0.07% wt.	EU004

**TABLE B: RECURRENT SUBMITTALS****B-3** 02/19/13

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008 - 005

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 following Initial Startup of the Monitor for opacity, and the monitoring for sulfur dioxide emissions.  The reports shall contain the information specified in 40 CFR Section 60.48c(c).	EU004
Semiannual Compliance Report	due 31 days after end of each calendar half-year starting 02/04/2000. The initial semiannual report shall be postmarked by the 30th day following the sixth month following the completion of the initial performance test.	EU013
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. 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 following Permit Issuance (for the previous calendar year). The Permittee shall submit this 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

## APPENDICES

Facility Name: Order of St Benedict/St John's Abbey

Permit Number: 14500008-005

### ***I: Insignificant Activities Required to be Listed:***

Emission Unit Description	Applicable Subpart (7007.1300 x)	Description	Applicable Performance Standard
Laboratories	7007.1300, subp. 3(G)		Minn. R. 7011.0710/0715
Natural Gas Fired Emergency Generators (2)	7007.1300, subp. 3 (I)	PTE < 1 tpy	Minn. R. 7011.2300
Diesel Fired Emergency Generators (2)	7007.1300, subp. 3 (I)	PTE < 1 tpy	Minn. R. 7011.2300
Bottom and Fly Ash Handling Systems	7007.1300, subp. 3 (I)	PTE < 1 tpy	Minn. R. 7011.0715
Gasoline Storage Tank	7007.1300, subp. 4	Actual Emissions < 1 tpy	Minn. R. 7011.1505
Wood Kiln	7007.1300, subp. 4	Actual Emissions < 1 tpy	Minn. R. 7011.0610
Natural Gas Kiln	7007.1300, subp. 3 (I)	PTE < 1 tpy, <2 tpy for CO	Minn. R. 7011.0610
Parts Washer	7007.1300, subp. 3 (I)	PTE < 1 tpy	
Spray Booth/ Misc. Painting	7007.1300, subp. 4	Actual Emissions < 1 tpy	Minn. R. 7011.0715
Sander Baghouse	7007.1300, subp. 3 (I)	Actual Emissions < 1 tpy	Minn. R. 7011.0715
Fly Ash Silo	7007.1300, subp. 3 (I)	Actual Emissions < 1 tpy	Minn. R. 7011.0715

## II: Dispersion Modeling Parameters

### Air Dispersion Modeling Parameters

#### Point Sources/Stacks

Stack ID	Description	Stack Parameters								Emissions (lb/hr)		
		Height		Diameter		Temperature		Flow		SO2	NOX	PM10
		m	ft	m	ft	K	F	m/s	acfm			
STK1	Boilers 1,2, & 3	53.3	174.9	1.52	5.0	560.9	550	5.51	21185	59.4	24.7	23.1
STK2	Boiler 4	24.4	80.1	1.16	3.8	672	750	14.98	33545	100.8	26.7	11.0
STK3	Boiler 5	18.9	62.0	1.07	3.5	419.8	296	8.93	17014	33.4	9.1	0.9
STK4	Gen No. 1 (EU7)	17.98	59.0	0.2	0.7	1255.3	1800	50	3328	2.5	21.6	1.5
STK5	Gen No. 2 (EU8)	18.3	60.0	0.2	0.7	1255.3	1800	49.44	3291	0.0	17.3	1.2
STK6	Boiler 6 (EU13)	13.7	44.9	1.07	3.5	419.8	296	8.93	17014	8.3	7.2	0.4
STK7	Wood Fired Kiln	4.273	14.0	4.273	14.0	1366	1999	7.67	233054	0.0	0.0	0.8

#### Area Sources/Fugitives

Source ID	Description	Emission Rate (g/s-m2)	Emission Rate (lb/hr)	Release Height (m)	X Dimension (m)	Y Dimension (m)	Angle	Z Dimension (m)
FUG1	Coal Pile Fugitives	1.50E-05	1.57E-02	3	15.5	8.5	0	12

=Equal to or higher than predicted by emission factors or performance standard limits.

=Lower than predicted. See discussion in the technical support document.

### ***III: Calculation Method for Pollutants with Synthetic Minor Limits:***

Sulfur dioxide emissions shall be calculated using the following method:

$$E_{SO_2} = \sum_{i=1}^{i=n} \frac{Q_i * E_f}{2,000} \quad \text{Eq. 1}$$

Where:

$E_{SO_2}$  = emissions in tons

$E_f$  = either the emission limit or appropriate factor for  $SO_2$  from the latest version of AP42. Fuel sulfur content must be obtained and recorded in order to determine coal and oil sulfur dioxide emissions. AP42 factors may be used for natural gas and wood.

$Q_i$  = the throughput for the previous month in the appropriate units for the emission factor for the  $i^{th}$  unit

$i$  = the  $i^{th}$  emission unit including all boilers, generators, and kilns

$n$  = the number of emission units

When added to the results of the calculations for the previous 11 months the results must be less than 225 tons.



***IV: Calculation Method for Particulate Emissions from the Wood Fired Kiln:***

$$W = \frac{(lb \text{ of wood}) * \left( \frac{Btu}{lb \text{ of wood}} \right)}{10^6} \quad \text{Eq. 4}$$

$$E_p = \frac{W * E_{fp}}{24} \quad \text{Eq. 5}$$

Where:

$E_p$  = the average hourly particulate emissions based on a 24 hour period. Limit = 0.83 lb PM/hr.

$W$  = wood use in mmBtu for the 24 hour period operating day

$E_{fp}$  = the emission factor for particulate emissions in mmBtu