DRAFT/PROPOSED

AIR EMISSION PERMIT NO. 01500010-008
Major Amendment

IS ISSUED TO

City of New Ulm
New Ulm Public Utilities – Municipal Power
310 1st North Street
New Ulm, Brown County, Minnesota 56073

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

This permit amendment supersedes Air Emission Permit No. 01500010-006 and authorizes the Permittee to operate and modify the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the 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 Permit; Part 70/Major for NSR; Limits to Avoid NSR
Operating Permit Issue Date: September 4, 2007
Major Amendment Issue Date: <issue date>
Operating Permit Expiration: September 4, 2012* -- All Title I Conditions do not expire.

* The Permittee may continue to operate this facility after the expiration date of the permit, per the provision under Minn. R. 7007.0450, subp. 3. (Title V Reissuance Application was received 03/05/2012.)

Don A. Smith, Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit - Reissuance	03/22/2004	006
Major Amendment	May 18, 2012	008

XX:xx

TABLE OF CONTENTS

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:

New Ulm Public Utilities is a municipal utility that provides electricity and steam. The Facility operates three boilers: EU001 and EU002 are natural gas-fired and EU003 is natural gas- and coal-fired; and two simple cycle distillate oil-fired combustion turbine generators: EU004 and EU005.

Total generating capacity is 76.2 megawatts. Under 40 CFR § 72.6(b)(1) and (2), none of the electric generating equipment is subject to Title IV (Acid Rain requirements) because all units commenced operation before November 15, 1990.

Currently, very little coal is used by the Facility, and therefore coal storage, coal handling, and ash handling are insignificant activities as defined in Minn. R. 7007.1300. See Appendix B of this permit for all listed insignificant activities.

AMENDMENT DESCRIPTION:

Permit Action 008 is a major amendment authorizing a modification of EU002. EU002 is a natural gas-fired boiler. The modification consists of replacement of the three existing burners with a single new burner, not to exceed 99 MMBtu/hour. The modification is not subject to New Source Review.

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

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

Subject Item: **Total Facility**

What to do	Why to do it
SOURCE-SPECIFIC REQUIREMENTS	hdr
The Permittee is authorized to modify EU002 by replacing the 3 existing natural gas burners with a single natural gas burner not to exceed 99 million Btu/hour in capacity.	Title I Condition: To avoid classification of changes as major modifications under 40 CFR Section 52.21 & Minn. R. 7007.3000
Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendices.	Minn. R. 7007.0800, subp. 2
Comply with Fugitive Emission Control Plan: Upon resuming coal combustion in Boiler #4, the Permittee shall follow the actions and recordkeeping specified in the control plan. The plan may be amended by the Permittee with the Commissioner's approval. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors as requested by the Commissioner.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0100; Minn. R. 7007.0800, subp. 2; Minn. R. 7011.0150; Minn. R. 7009.0020
DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr
These requirements apply if a reasonable possibility (RP) as defined in 40 CFR Section 52.21(r)(6)(vi) exists that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test (either by itself or as part of the hybrid test at Section 52.21(a)(2)(iv)(f)) and found to not be part of a major modification, may result in a significant emissions increase (SEI). If the ATPA test is not used for the project, or if there is no RP that the proposed project could result in a SEI, these requirements do not apply to that project. The Permittee is only subject to the Preconstruction Documentation requirement for a project where a RP occurs only within the meaning of Section 52.21(r)(6)(vi)(b). Even though a particular modification is not subject to New Source Review (NSR), or where there isn't a RP that a proposed project could result in a SEI, a permit amendment, recordkeeping, or notification may still be required by Minn. R. 7007.1150 - 7007.1500.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following: 1. Project description 2. Identification of any emission unit (EU) whose emissions of an NSR pollutant could be affected 3. Pre-change potential emissions of any affected existing EU, and the projected post-change potential emissions of any affected existing or new EU. 4. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the EU could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any creditable contemporaneous increases and decreases that were considered in the determination. The Permittee shall maintain records of this documentation.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.1200, subp. 4; Minn. R. 7007.0800, subps. 4 & 5
The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions in the hybrid test. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if the hybrid test was used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Before beginning actual construction of any project which includes any electric utility steam generating unit (EUSGU), the Permittee shall submit a copy of the preconstruction documentation (items 1-4 under Preconstruction Documentation, above) to the Agency.	Title I Condition: 40 CFR Section 52.21(r)(6)(ii); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
For any project which includes any EUSGU, the Permittee must submit an annual report to the Agency, within 60 days after the end of the calendar year. The report shall contain: a. The name and ID number of the facility, and the name and telephone number of the facility contact person b. The quantified annual emissions analyzed using the ATPA test, plus the potential emissions associated with the same project analyzed as part of a hybrid test. c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection, if that is the case.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
For any project which does not include any EUSGU, the Permittee must submit a report to the Agency if the annual summed (actual, plus potential used in hybrid test) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR Section 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain: a. The name and ID number of the facility, and the name and telephone number of the facility contact person b. The annual emissions (actual, plus potential if any part of the project was analyzed using the hybrid test) for each pollutant for which the preconstruction projection and significant emissions rate is exceeded. c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
MODELING REQUIREMENTS	hdr
Notification of actual annual emissions in excess of 100 tons of PM10, or 500 tons of SO2, or 1000 tons of NOX, during previous calendar year: Due 32 days after the first calendar year in which any of these thresholds is exceeded. This requirement then triggers the need to do modeling, as described in Table B of this permit.	Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7009.0020; Minn. R. 7007.0100; Minn. R. 7007.0800, subp. 2
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	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, subps. 14 and 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

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Table A 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 an alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2
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
MONITORING REQUIREMENTS	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)
RECORDKEEPING	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)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. These records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

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
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 - 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 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **GP 001 Boilers and Gas Turbine**

Associated Items: EU 001 Boiler #1

EU 002 Boiler #2

EU 003 Boiler #4

EU 004 Gas Turbine #5 (simple cycle)

EU 005 Gas Turbine #7 (simple cycle)

What to do	Why to do it
Operating Restriction: when EU004 and/or EU005 is combusting fuel oil, EU001, EU002, and EU003 are restricted to combusting natural gas only.	Minn. R. 7007.0800, subp. 2; Minn. R. 7009.0020
Recordkeeping - Fuel Type Usage: When EU004 is operating (and combusting distillate fuel oil), record the start and stop times for EU004 and the type of fuel combusted in EU003 during each EU004 operating period.	Minn. R. 7007.0800, subp. 5

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **EU 001 Boiler #1**

Associated Items: GP 001 Boilers and Gas Turbine

SV 001 Boiler 1 Stack

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input . Maximum PTE based on equipment capacity is approximately 0.0072 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
Sulfur Dioxide: less than or equal to 0.05 lbs/million Btu heat input	Minn. R. 7007.0800, subp. 2; Minn. R. 7009.0020
Fuel Permitted: pipeline natural gas only.	Minn. R. 7007.0800, subp. 2
Recordkeeping: keep a record of the type of fuel combusted in EU 001. Records shall be entered no less frequently than semiannually.	Minn. R. 7007.0800, subp. 5

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **EU 002 Boiler #2**

Associated Items: CE 001 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

GP 001 Boilers and Gas Turbine

SV 002 Boiler 2 Stack

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
Nitrogen Oxides: less than or equal to 39.0 tons/year using 12-month Rolling Sum calculated monthly as described below.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Fuel Permitted: pipeline natural gas only.	Minn. R. 7005.0100, subp. 35a
RECORDKEEPING REQUIREMENTS	hdr
Each operating day, record the quantity of natural gas combusted in EU002.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Recordkeeping: By the last day of each calendar month, the Permittee shall record the amount of natural gas combusted in the boiler during the previous calendar month. These records shall consist of purchase records, receipts, or fuel meter readings.	40 CFR Section 60.48c(g)(2); Minn. R. 7011.0570
By the 15th day of each month, calculate and record the NOX emissions for the previous month using the following formula: NOX = (Q x EF) / 2000 Where: NOX = NOX emissions for the previous month, in tons Q = the quantity of natural gas combusted in EU002 during the previous month, in million cubic feet (mmcf) EF = the most current NOX emission factor for the boiler. This should be site-specific, based on a performance test. Prior to the first performance test, the Permittee may use the most current emission factor published in AP-42, in lb/mmcf. At the time of permit issuance, the current AP-42 emission factor is 100 lb/mmcf.	Minn. R. 7007.0800, subps. 4 and 5
By the 15th day of each month, calculate and record the 12-month rolling sum NOX emissions for the previous 12-month period by summing the monthly NOX emissions data for the previous 12 months.	Minn. R. 7007.0800, subps. 4 and 5
CONTROL REQUIREMENTS	hdr
The operation of CE001 is not necessary in order for the process to meet any emissions limits. However, if the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory, the cyclone must comply with the requirements listed under Subject Item CE001 during the time credit for control is taken.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
PERFORMANCE TEST REQUIREMENTS	hdr
Performance Test: due 180 days after Initial Startup of the new burner, to measure NOX emissions for the purpose of establishing an emission factor for use in emission calculations and emission inventory.	Minn. R. 7017.2020, subp. 1

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **EU 003 Boiler #4**

Associated Items: CE 002 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 003 ESP or Fabric Filter

GP 001 Boilers and Gas Turbine

MR 003 Opacity Monitor

SV 003 Boiler 3 Stack

What to do	Why to do it
EMISSION & OPERATING LIMITS	hdr
Total Particulate Matter: less than or equal to 0.6 lbs/million Btu heat input	Minn. R. 7011.0510, subp. 1
Sulfur Dioxide: less than or equal to 4.0 lbs/million Btu heat input while burning coal.	Minn. R. 7011.0510, subp. 1
Determination of Applicable SO2 Limit When Cofiring Coal and Natural Gas: Use the following formula to determine the prorated SO2 emission limit when cofiring coal and natural gas: w = z(4.0 lb/mmBtu) where: w = allowable prorated SO2 emission rate in lb/mmBtu z = percentage of total heat input from coal	Minn. R. 7011.0505, subp. 3
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
Fuels Permitted: pipeline natural gas; bituminous coal; on-site generated petroleum-derived used oil (as defined at Minn. R. 7045.0100, subp. 100a as oil which has been used and as a result has become contaminated by physical or chemical impurities); and on-site generated EDTA-type boiler cleaning agents. Use of these fuels is restricted as follows: 1) Coal may be combusted only after a fabric filter or electrostatic precipitator (indicated above in Associated Items as CE003) is installed and operational. 2) On-site generated petroleum-derived used oil is limited to no more than 5% of total heat input on an hourly basis, and a maximum of 6,000 gallons per calendar year. 3) On-site generated EDTA-type boiler cleaning agents are subject to the following conditions: a) EU 003 must be operating at or above 75% of rated capacity; b) cleaning agent feed rate shall not exceed 16 gpm; c) Flue gas oxygen shall not be less than 3% on an instantaneous basis.	Minn. R. 7007.0800, subp. 2
Fuel Usage: less than or equal to 15000 tons/year using 12-month Rolling Sum of Coal.	Title I Condition: To avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7007.0200
MONITORING AND RECORDKEEPING	hdr
Coal Monitoring and Recordkeeping: obtain a fuel certification from the coal supplier for each coal delivery stating the percent sulfur by weight and heat content of the coal. If the Permittee's coal supplier provides multiple coal deliveries from the same barge load, the Permittee may obtain a single certification for each barge load. However, the coal supplier must indicate on the certification that upon delivery, the supplier will notify the Permittee that coal from a different barge load is being delivered, and a new certification for that coal specifying the sulfur and heat contents of the coal will be furnished at the time of delivery.	Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping: By the 15th day of each month, calculate and record the quantity of coal combusted during the previous month, and for the previous 12 months (12-month rolling sum).	Title I Condition: To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200
SO2 Recordkeeping: Within 15 days after receipt of each coal certification, calculate and record the corresponding SO2 emission rate associated with combusting the coal included in that certification, in pounds of SO2 per million BTU of heat input to the boiler.	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Emissions Monitoring: The owner or operator shall use a COMS to measure opacity emissions from EU003. See Subject Item MR003 for specific COMS operating requirements.	Minn. R. 7017.1006; 40 CFR Section 64.7(c); Minn. R. 7017.0200
CONTROL REQUIREMENTS (See also Subject Items CE002 and CE003)	hdr
When combusting coal, the Permittee shall operate and maintain CE002 such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 80 percent control efficiency	Minn. R. 7007.0800, subp. 2 and 14
When combusting coal, the Permittee shall have installed and shall operate and maintain CE003 such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 95 percent control efficiency	Minn. R. 7007.0800, subp. 2 and 14
TESTING REQUIREMENTS	hdr
Initial Performance Test: due 180 days after Initial Startup of CE 003 (fabric filter or electrostatic precipitator) to measure PM emissions and opacity. (Initial Startup of CE003 is listed in Table B as a requirement for Subject Item CE003.)	Minn. R. 7017.2020, subp. 1
The Permittee shall operate and maintain CE002 at all times that any emission unit controlled by CE002 is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. R. 7007.0800, subp. 2 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **EU 004 Gas Turbine #5 (simple cycle)**

Associated Items: GP 001 Boilers and Gas Turbine

SV 004 Gas Turbine 5 Stack

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained.	Minn. R. 7011.2300, subp. 1
MONITORING	hdr
Fuel Supplier Certification: the permittee shall obtain a certification from the distillate fuel oil supplier specifying the sulfur content in percent by weight, for each fuel oil delivery. Note that an SO2 emission rate of 0.5 lb/mmBtu occurs when distillate fuel oil with a sulfur content of 0.496% by weight is combusted in EU 004.	Minn. R. 7007.0800, subp. 4
TESTING REQUIREMENTS	hdr
Performance Test: due before end of each 60 months starting 07/31/2006 to measure opacity emissions. The next test is due before 07/31/2011.	Minn. R. 7017.2020, subp. 1

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **EU 005 Gas Turbine #7 (simple cycle)**

Associated Items: GP 001 Boilers and Gas Turbine

SV 005 Gas Turbine 7 Stack

What to do	Why to do it
EMISSION AND OPERATING LIMITS	hdr
Nitrogen Oxides: less than or equal to 75 parts per million at 15 percent oxygen and on a dry basis. This does not apply when ice fog is deemed a traffic hazard by the owner or operator of the gas turbine.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; 40 CFR Section 60.332(b) and (f); Minn. R. 7011.2350
Sulfur Dioxide: less than or equal to 0.015 percent by volume at 15 percent oxygen and on a dry basis. OR Sulfur Content of Fuel: less than or equal to 0.8 percent by weight (8000 ppmw).	40 CFR Section 60.333; Minn. R. 7011.2350
Allowed Fuels: Distillate fuel oil only	Minn. R. 7007.0800, subp. 2
Fuel Usage: less than or equal to 1625648 gallons/year using 12-month Rolling Sum	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Sulfur Content of Fuel: less than or equal to 0.34 percent by weight	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Power Production: less than 28200 kilowatts using 8-hour Block Average	Minn. R. 7017.2025, subp. 3
No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard.	40 CFR Section 60.12
MONITORING AND RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: By the 15th day of each month, record the quantity of fuel combusted for the previous month, and the total quantity of fuel combusted for the previous 12 months (12-month rolling sum).	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Each time the storage tank is filled, obtain supplier certification that the fuel meets the definition of distillate oil and contains less than or equal to than 0.34 percent sulfur by weight. Fuel supplier certification shall include, at a minimum, the name of the supplier, address of the supplier, sulfur content of fuel, and a statement that the fuel meets the definition of distillate oil.	Title I Condition: To avoid classification as a major modification under 40 CFR Section 52.21 and Minn. R. 7007.3000
Power Production: Each day of operation, calculate and record the total kilowatts of power production for each 8-hour Block Average. Divide the total quantity of power produced in each 8-hour block by the total operating time in the 8-hour block. Down time of 15 or more minutes is not to be included as operating time.	Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5
Install, calibrate, maintain, and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within +/- 5.0 percent and shall be approved by the Administrator.	40 CFR Section 60.334(a); Minn. R. 7011.2350
The Permittee shall develop and keep on site a parameter monitoring plan which explains the procedures used to document proper operation of the NOX emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan.	40 CFR Section 60.334(g); Minn. R. 7011.2350
Monitor the sulfur content of the fuel being fired in the turbine. The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR Section 60.335(b)(10): a minimum of three fuel samples shall be collected during the test. Analyze the samples for the total sulfur content of the fuel using ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00, or D1552-01. The fuel analysis may be performed by the Permittee, a service contractor retained by the Permittee, the fuel vendor, or any other qualified agency.	40 CFR Section 60.334(h)(1); 40 CFR Section 60.335(b)(11); Minn. R. 7011.2350

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Sulfur Monitoring Method: Use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to 40 CFR Part 75 (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).	40 CFR Section 60.334(i)(1); Minn. R. 7011.2350
Recordkeeping: Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including; any malfunction of air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b), Minn. R. 7019.0100, subp. 1
REPORTING REQUIREMENTS	hdr
Notification of any physical or operational change which increases emission rate: due 60 days (or as soon as practical) before the change is commenced. Within 180 days of completion of any physical or operational change subject to the control measures specified in 60.14(a), compliance with all applicable standards must be achieved.	40 CFR Section 60.7(a)(4); Minn. R. 7019.0100, subp. 1
EER Reporting Requirements for turbines using water or steam to fuel ratio monitoring: (A) An excess emission shall be any unit operating hour for which the average steam or water to fuel ratio, as measured by the monitoring system, falls below the acceptable steam or water to fuel ratio needed to demonstrate compliance with 40 CFR Section 60.332, as established during the performance test. Any unit operating hour in which no water or steam is injected into the turbine shall be considered an excess emission. (B) A period of monitor downtime shall be any unit operating hour in which water or steam is injected into the turbine, but the essential parametric data needed to determine the steam or water to fuel ratio are unavailable or invalid.	40 CFR Section 60.334(j)(1)(i); Minn. R. 7011.2350
continued from above... (C) Each report shall include the average steam or water to fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), gas turbine load, and (if applicable) the nitrogen content of the fuel during the excess emission. You do not have to report ambient conditions if you opt to use the worst case ISO correction factor as specified in 40 CFR Section 60.334(b)(3)(ii), or if you are not using the ISO correction equation under the provisions of 40 CFR Section 60.335(b)(1).	40 CFR Section 60.334(j)(1)(i); Minn. R. 7011.2350
For SO2, if the option to sample each delivery of fuel oil has been selected, the Permittee shall immediately switch to one of the other oil sampling options if the sulfur content of a delivery exceeds 0.8 weight percent. The owner or operator shall continue to use one of the other sampling options until all of teh oil from teh delivery has been combusted, and shall evaluate excess emissions according to 40 CFR Section 60.334(j)(2)(i). When all of the fuel from the delivery has been burned, the owner or operator may resume using the as-delivered sampling option.	40 CFR Section 60.334(j)(2)(ii); Minn. R. 7011.2350
Ice Fog: Each period during which an exemption provided in 40 CFR Section 60.332(f) is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.	40 CFR Section 60.334(j)(3); Minn. R. 7011.2350
PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before end of each 36 months starting 08/31/2001 to measure NOx concentration in the turbine exhaust. The next test is due before December 29, 2007. (This reflects an extension of 120 days from the deadline of August 31, 2007.)	Minn. R. 7017.2020, subp. 1; 40 CFR Section 60.8(a)

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **CE 001 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones**

Associated Items: EU 002 Boiler #2

What to do	Why to do it
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits. However, if the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory, the cyclone must comply with the following requirements during the time credit for control is taken.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
The Permittee shall operate and maintain the cyclone in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
The Permittee shall operate and maintain the control device at all times that any emission unit controlled by the device is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter: greater than or equal to 80 percent control efficiency	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 5 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. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
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 cyclone is in operation.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
Recordkeeping of Pressure Drop. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded pressure drop was within the range specified in this permit.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
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. The Permittee shall maintain a written record of these inspections.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - the recorded pressure drop is outside the required operating range; or - the cyclone 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, 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 device. The Permittee shall keep a record of the type and date of any corrective action taken for the control device.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **CE 002 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones**

Associated Items: EU 003 Boiler #4

What to do	Why to do it
The operation of this piece of control equipment is not necessary in order for the process to meet applicable emissions limits when only natural gas is combusted. However, if the Permittee wishes to take credit for its operation for the purposes of reporting actual emissions for emission inventory, the cyclone must comply with the following requirements during the time credit for control is taken.	Minn. Stat. 116.07, subd. 4a; Equipment used under Minn. R. 7019.3020 (G)
The Permittee shall operate and maintain this control device at all times that the boiler is combusting coal.	Minn. R. 7007.0800, subp. 2 and 16
The Permittee shall operate and maintain CE002 in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	40 CFR Section 64.3; Minn. R. 7017.0200
Pressure Drop: greater than or equal to 1 inches of water column and less than or equal to 5 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. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	40 CFR Section 64.7; Minn. R. 7017.0200
Recordkeeping of Pressure Drop - The pressure drop shall be measured at least once every 24 hours. The Permittee shall record the time and date of each pressure drop reading and whether or not the recorded value was within the range specified in this permit. Recorded values outside the pressure drop range specified in this permit are considered Deviations as defined by Minn. R. 7007.010, subp. 8a. The deviation must be reported in the Semiannual Deviations Report listed in Table B of this permit.	40 CFR Section 64.3; Minn. R. 7017.0200
Periodic Inspections: At least once each calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	40 CFR Section 64.3; 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, including maintaining the necessary parts for routine repairs of the monitoring equipment, when the monitored cyclone is in operation.	40 CFR Section 64.7(b); Minn. R. 7017.0200
The Permittee shall calibrate each pressure gauge at least once every calendar year and shall maintain a written record of any action resulting from the calibration.	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: - the recorded opacity (at MR003) is above 20 percent; - the recorded pressure drop is outside the required operating range; or - the multiclone 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 CE002. The Permittee shall keep a record of the type and date of any corrective action taken for the device.	40 CFR Section 64.7(d); Minn. R. 7017.0200
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 exceedance (as defined in 40 CFR Section 64.1) 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 changes.	40 CFR Section 64.7(e); Minn. R. 7017.0200

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

As required by 40 CFR Section 64.9(a)(2), for the Semi-Annual Devations 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 exceedances (as defined in 40 CFR Section 64.1), as applicable, and the corrective actions 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

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Subject Item: **MR 003 Opacity Monitor**

Associated Items: CM 002 Boiler 4: 20% Opacity, EU003, 6-min ave.

EU 003 Boiler #4

What to do	Why to do it
COMS Monitoring Data: Owners or Operators of all COMS shall reduce all data to 6 minute averages. Opacity averages shall be calculated from all equally spaced consecutive 10-second (or shorter) data points in the 6 minute averaging period.	Minn. R. 7017.1200, subp. 1, 2 & 3; 40 CFR Section 64.7(c); Minn. R. 7017.0200
Continuous Operation: COMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A COMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	Minn. R. 7017.1090, subp. 1
QA Plan Required: Develop and implement a written quality assurance plan which covers each COMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain the written procedures listed in Minn. R. 7017.1210, subp. 1.	Minn. R. 7017.1210, subp. 1
COMS QA/QC: The owner or operator of an affected facility is subject to the performance specifications listed in 40 CFR pt. 60, Appendix B and shall operate, calibrate, and maintain each COMS according to the QA/QC procedures in Minn. R. 7017.1210.	Minn. R. 7017.1210
COMS Daily Calibration Drift (CD) Check: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) opacity at least once daily. The COMS must be adjusted whenever the calibration drift (CD) exceeds twice the specification of PS-1 of 40 CFR 60, Appendix B.	Minn. R. 7017.1210, subp. 2
COMS Calibration Error Audit: due before end of each calendar half-year following COMS Certification Test. Conduct three point calibration error audits at least 3 months apart but no greater than 8 months apart. Conduct audits in accordance with Minn. R. 7017.1210, subp. 3.	Minn. R. 7017.1210, subp. 3
Attenuator Calibration: The Permittee shall have an independent testing company conduct calibrations of each of the neutral density filters used in the calibration error audit according to the procedure in Code of Federal Regulations, Title 40, Part 60, Appendix B, Section 7.1.3.1 within the time frame of opacity stability guaranteed by the attenuator manufacturer. The manufacturer's guarantee of stability shall be on site available for inspection.	Minn. R. 7017.1210, subp. 4
Recordkeeping: The owner or operator must retain records of all COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130

TABLE B: SUBMITTALS

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:
- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

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

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

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

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

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

Send any application for a permit or permit amendment to:

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

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

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

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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Protocol	due 1,096 days after Notification that total facility actual emissions exceeded 100 tons of PM10, or 250 tons of SO2, or 1000 tons of NOX, during the previous calendar year. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Results	due 1,462 days after Notification that total facility actual emissions exceeded 100 tons of PM10, or 250 tons of SO2, or 1000 tons of NOX, during the previous calendar year. The results are to be submitted after the MPCA has reviewed and approved the modeling protocol. The submittal should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state-only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of the new burner.	EU002
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup. This triggers testing listed at Subject Item EU003.	CE003
Notification of the Date Construction Began	due 30 days after Start Of Construction on the burner replacement. Submit the name and number of each unit (EU002) and the date construction began.	EU002
Testing Frequency Plan	due 60 days after Initial Performance Test for total particulate matter emissions and opacity. The plan shall specify a testing frequency using the intital performance test data and MPCA test frequency guidance. Future performance tests at year (12-month), 36-month, and 60-month intervals, or as applicable, shall be required on written approval of MPCA per Minn. R. 7017.2020, subp. 1.	EU003

TABLE B: RECURRENT SUBMITTALS

Facility Name: New Ulm Public Utilities-Municipal Power

Permit Number: 01500010 - 008

What to send	When to send	Portion of Facility Affected
COMS Audit Results Summary	due 30 days after end of each calendar quarter starting 09/04/2007 in which the COMS calibration error audit was completed.	MR003
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 06/17/2002. See Table A, Subject Item EU 005, for details on what to report.	EU005
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 09/04/2007. 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

APPENDIX B: **Insignificant Activities**
Facility Name: New Ulm Public Utilities-Municipal Power
Permit Number: 01500010-008

Insignificant Activities and Applicable Requirements

The table below lists the insignificant activities that are currently at the facility and their associated general applicable requirements.

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Likely Applicable Requirement
3(G)	Emissions from a laboratory, as defined in the subpart. ▪ Permittee has a water testing lab on site.	Minn. R. 7011.0710/0715
3(H)	Miscellaneous: 3. brazing, soldering or welding equipment; ▪ Welding equipment on site	Minn. R. 7011.0510/.0515 + Minn. R. 7011.0610 + Minn. R. 7011.0710/0715
3(I)	Individual emissions units at a stationary source, each of which have a potential to emit the following pollutants in amounts less than: 1. 4,000 lbs/year of carbon monoxide; 2. 2,000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutant-containing VOC), and ozone; and 3. 1,000 tons/year of CO_2e ▪ Fuel oil storage tank ▪ Parts washer ▪ Ash silo (may become significant when Permittee commences coal combustion) ▪ Miscellaneous activities associated with coal handling (storage pile, delivery/dump trucks, coal drop to boiler) (these may become significant when Permittee commences coal combustion)	Minn. R. 7011.0710/0715

Minn. R. 7007.1300, subpart	Rule Description of the Activity	Likely Applicable Requirement
4	Individual emissions units at a stationary source, each of which has: A. Potential emissions of 5.7 pounds per hour or actual emissions of two tons per year of carbon monoxide; B. Potential emissions of 2.28 pounds per hour or actual emissions of one ton per year for particulate matter, particulate matter less than ten microns, nitrogen oxide, sulfur dioxide, and VOCs; AND C. For hazardous air pollutants, emissions units with: (1) potential emissions of 25 percent or less of the hazardous air pollutant thresholds listed in subp. 5; or (2) combined HAP actual emissions of one ton per year unless the emissions unit emits one or more of the HAPs listed in this subpart; AND D. Potential emissions up to 10,000 tons per year or actual emissions up to 1,000 tons per year of CO_2e. ▪ *HCl usage for boiler water treatment.* ▪ *Cooling tower – actual emissions 0.01 tpy*	Minn. R. 7011.0710/0715

APPENDIX C: **Fugitive Control Plan**
Facility Name: New Ulm Public Utilities-Municipal Power
Permit Number: 01500010-008

See following page

OPERATION AND MAINTENANCE PLAN OF EMMISSIONS EQUIPMENT FOR THE NO. 4 BOILER

OPERATING PROCEDURES

- Record the dust collector outlet draft every hour to verify collectors are functioning properly.
- Inspect dust collector hoppers every hour and remove fly ash when it reaches the mechanical indicators.
- Inspect the dust collector fan every hour to verify it is functioning properly.
- Record the removal of fly ash.

ANNUAL OUTAGE INSPECTION OF MECHANICAL COLLECTORS

- Inspect and clean the gas inlet chamber.
- From the fly ash hopper, flues should be examined to make sure that they are gas tight and free from any accumulation of dust or other obstructions.
- Inspect each cone for holes or excessive wear both internally and externally and replace if necessary.
- Inspect and clean the gas outlet chamber.

FUGITIVE EMMISSIONS PLAN

Coal Yard

- If room allows, have coal trucks unload coal next to the coal pile to reduce the use of the elevator.
- Limit truck speed to a maximum of ten miles per hour.

COAL PIT AT THE POWER PLANT

- None

ASH UNLOADING FACILITY

- While unloading ashes, spray the ash with water for dust control.
- Lower chute down into truck box for dust control.
- Cover truck with a tarp when transporting ash to the disposal site.