

**AIR EMISSION PERMIT NO. 12300012-005**

**IS ISSUED TO**

Northern States Power Company d.b.a. Xcel Energy

**NSP dba XCEL ENERGY - HIGH BRIDGE**

501 Shepard Road  
St. Paul, Ramsey County, MN 55102

The emission units, control equipment and emission stacks at the stationary source authorized in this permit are as described in the following permit application(s):

Permit Type	Application Date	Issuance Date	Action Number
Total Facility Operating Permit - Reissuance	01/13/2003	08/12/2005	PER 004
Major Amendment	01/24/2005		
Administrative Amendment	12/22/2005	see below	PER 005

This permit 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 defined in the state air pollution control rules unless the term is explicitly defined in the permit.

**Permit Type:** Federal Pt 70/NSR Construction Permit

Administrative Amendment

**Issue Date:** 08/12/2005

**Issue Date:** January 11, 2006

**Expiration:** 08/12/2010

Title I Conditions do not expire.

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Richard J. Sandberg, Manager  
Air Quality Permits Section  
Industrial Division

for Sheryl A. Corrigan  
Commissioner  
Minnesota Pollution Control Agency

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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:**

This facility is a coal-fired steam electric power plant. The permit action is an administrative amendment to a combined part 70 reissuance and a PSD construction permit (Permit No. 12300012-004) issued August 12, 2005, to replace the four existing coal-fired boilers with twin natural gas-fired combined cycle combustion turbine generators.

This permit extends the EU 001 particulate matter testing deadline from December 31, 2005, to April 30, 2006. This extension was requested by Xcel Energy because during EU 001 particulate matter emissions testing on December 21, 2005, the facility experienced an electrical power failure which disrupted the testing process.

This permit includes all requirements of permit No. 12300012-004, including shutdown of the existing plant after completion of shakedown of the combustion turbines.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 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**

<b>What to do</b>	<b>Why to do it</b>
<b>A. CONSTRUCTION AUTHORIZATION</b>	hdr
<p>Replacement Of Existing Facility: This permit authorizes construction of a new facility to replace the existing electric power generating facility. The existing facility is composed of four coal-fired boilers and related support equipment. The new facility will be composed of twin natural gas-fired combined cycle combustion turbine generators with duct firing (EU 013/EU 014 and EU 015/EU 016, respectively), an auxiliary boiler (EU 017), and a diesel engine fire pump (EU 018). An existing emergency generator (EU 010) will be retained and become part of the new facility.</p> <p>Requirements pertaining to existing facility shutdown, overlapping operations of the existing and new facilities, and combustion turbine shakedown are located on page A-14 in TABLE A GP 005, and on page B-2 in TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS.</p> <p>Combustion Turbine Shakedown: Combustion turbine shakedown is defined as the period of time commencing on the day prior to the date of the first of the two combustion turbines (EU 013 and EU 014) to go through initial startup and terminating on the date of the first of the two combustion turbines to engage in commercial dispatch or 180 days after the date of the first combustion turbine to go through initial startup, whichever is earlier.</p> <p>Commercial dispatch occurs when the Midwest Independent System Operator is notified that the combustion turbine is available for commercial electric power generation.</p> <p>A duplicate of this requirement is listed in GP 005 on page A-14.</p>	hdr
<p>The authorization to commence construction of EU 013, EU 014, EU 015, EU 016, EU 017, EU 018, and associated control and support equipment expires 18 months after permit issuance. The Permittee must keep a record of the dates of installation and startup on-site. The Permittee may apply for an extension of the construction authorization deadline by following the Administrative Amendment provisions in Minn. R. 7007.1400.</p>	Title I Condition: To avoid major modification as defined in 40 CFR 52.21(b)(2)(i) for PM, PM10, and NOx; Minn. R. 7007.3000
<p>Permitted Installation and Operation: This permit allows installation and operation of the Mitsubishi M501F (or equivalent) combustion turbine generator (CTG). For the purposes of this permit, 'equivalent' is any combustion turbine capable of firing only natural gas, with similar (approximately +/-5%) fuel-specific heat input capacity at a given ambient operating temperature and 60% relative humidity, and similar gross electric output. Equivalent turbines would include the Siemens-Westinghouse 501F and the General Electric MS7001F series.</p>	40 CFR Section 52.21(r)(2)
<b>B. DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW</b>	Minn. R. 7007.0800, subp. 2
<p>These requirements apply where there is a reasonable possibility that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test and found to not be part of a major modification, may result in a significant emissions increase. If the ATPA test is not used for a particular project, or if there is not a reasonable possibility that the proposed project could result in a significant emissions increase, then these requirements do not apply to that project.</p> <p>Even though a particular modification is not subject to New Source Review, a permit amendment, recordkeeping, or notification may still be required under Minn. R. 7007.1150 - 7007.1500.</p>	hdr
	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

<p>Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following information:</p> <ol style="list-style-type: none"> <li>1. A description of the project;</li> <li>2. Identification of the emission unit(s) whose emissions of an NSR pollutant could be affected;</li> <li>3. 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 potential emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the unit(s) 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.</li> </ol> <p>The Permittee shall maintain records of this documentation.</p>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>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. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if 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.</p>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>The Permittee must submit a report to the Agency if the annual summed (actual plus potential, if applicable) 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:</p> <ol style="list-style-type: none"> <li>a. The name and ID number of the facility, and the name and telephone number of the facility contact person</li> <li>b. The annual emissions (actual plus potential, if any part of the project was analyzed using potential emissions) for each pollutant for which the preconstruction projection and significant emissions increase are exceeded.</li> <li>c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection.</li> </ol>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>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 1-3 under Preconstruction Documentation, above) to the Agency.</p>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>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:</p> <ol style="list-style-type: none"> <li>a. The name and ID number of the facility, and the name and telephone number of the facility contact person</li> <li>b. The quantified annual emissions analyzed using the ATPA test, plus the potential emissions associated with the same project and analyzed using potential emissions</li> <li>c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection, if that is the case.</li> </ol>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>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, if applicable) 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:</p> <ol style="list-style-type: none"> <li>a. The name and ID number of the facility, and the name and telephone number of the facility contact person</li> <li>b. The annual emissions (actual plus potential, if any part of the project was analyzed using potential emissions) for each pollutant for which the preconstruction projection and significant emissions rate is exceeded.</li> <li>c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection.</li> </ol>	<p>Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 &amp; 5</p>
<p>C. OPERATIONAL REQUIREMENTS</p>	<p>hdr</p>
<p>The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.</p>	<p>Minn. R. 7007.0800, subp. 16</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

Operating Practices: Clean up all coal spilled on roads or access areas as soon as practicable using methods that minimize the amount of dust suspended.	Minn. R. 7011.1105 (I)
This requirement terminates after removal of all coal from the facility following shutdown of the existing facility.	
Access areas, roads, parking facilities: (1) Install asphalt or concrete surfaces or apply chemical agents on all active truck haul roads of the coal handling facility when the coal throughput by truck is 200,000 tons per year or greater. All paved roads and areas shall be cleaned to minimize the discharge to the atmosphere of fugitive particulate emissions. Such cleaning shall be accomplished in a manner which minimizes resuspension of particulate matter. Access areas surrounding coal stockpiles and parking facilities which are located within a coal handling facility shall be treated with water, oils, or chemical agents.	Minn. R. 7011.1105 (A)
This requirement terminates after removal of all coal from the facility following shutdown of the existing facility.	
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
Comply with Fugitive Emission Control Plan: The Permittee shall follow the actions and recordkeeping (if required) 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. 7007.0800, subp. 2
This requirement terminates after removal from the facility of all fugitive emission sources identified in the plan, following shutdown of the existing facility.	
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 federally enforceable.	Minn. R. 7030.0010 - 7030.0080
Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location. The Permittee may require MPCA staff to be accompanied by the Permittee's staff during any inspection.	Minn. R. 7007.0800, subp. 9(A)
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
<b>D. POLLUTION CONTROL EQUIPMENT REQUIREMENTS</b>	hdr
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)
<b>E. TESTING REQUIREMENTS</b>	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.	Minn. R. ch. 7017
Performance Test Notifications and Submittals:  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 day before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy or CD: due 105 day after each Performance Test.  The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.  Note: the performance test report due 45 days after each performance test meets the EU 017 requirement for submittal of performance test results 60 days after each test required by 40 CFR Section 63.10(d)(2).	Minn. R. 7017.2030, subp. 1 - 4; Minn. R. 7017.2018, and Minn. R. 7017.2035, subp. 1 and 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

Operating and/or production limits will be placed on emission units based on operating conditions during performance testing. Limits set as a result of a performance test (conducted before or after permit issuance) apply until new operating/production limits are set following formal review of a performance test as specified by Minn. R. 7017.2025.	Minn. R. 7017.2025
This requirement does not apply to EU 003, and EU 004. For operating limit requirements applicable to EU 003, and EU 004, see requirements pertaining to Short Term Emergency and Testing (STET) and Boiler Operating Conditions in EU 003, and EU 004. This exemption for EU 003 and EU 004 expires upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	
The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.	Minn. R. 7017.2020, subp. 4
<b>F. MONITORING REQUIREMENTS</b>	hdr
Monitoring Activities and Equipment: Where applicable, initiate monitoring activities and install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring activities are not performed or monitoring equipment is not installed and operational prior to permit issuance.	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A and or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
<b>G. RECORDKEEPING</b>	hdr
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)
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original strip-chart 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)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
<b>H. REPORTING</b>	hdr
Notification: due 90 days after Permit Issuance. This notification shall specify the final combustion turbine selection and shall be made regardless if the Mitsubishi 501F combustion turbine is selected. The notification shall include the manufacturer and model number of the selected turbine, and appropriate documentation of the emission rates and emission stack parameters if the Mitsubishi 501F is not selected.	Minn. R. 7007.0800, subp. 2
(continued below)	
Notification: due 90 days after Permit Issuance. (continued from above)	Minn. R. 7007.0800, subp. 2
If the emission rate (in pounds per hour) of any pollutant will be greater than that determined by MPCA staff for the Mitsubishi 501F combustion turbine, or stack parameters will produce higher receptor or ambient concentrations than those predicted for the Mitsubishi 501F combustion turbine, the Permittee shall obtain a major amendment to this permit, and shall indicate in the notification the date by which an application for a major amendment will be submitted to revise this permit. Any necessary revisions shall meet the requirements of 40 CFR Sections 52.21(j) and (k). If a major amendment is required, the Permittee shall not commence operation of the combustion turbine generator until the major amendment is issued.	
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**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 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
Breakdowns: Notify the Commissioner within 24 hours of a breakdown exceeding one hour duration of any process or control equipment that causes any increase in emissions of any regulated air pollutant.  Notification is not required for breakdown of electrostatic precipitator (ESP) sections in CE 001, CE 002, CE 003, CE 004, CE 005, CE 006, CE 007, and CE 008, if the number of remaining operating sections for each ESP is equal to or greater than the number of operating sections during the most recent performance test during which limits for particulate matter and opacity were met, and, the opacity measured by the COM on SV 001 does not exceed the opacity limit in EU 001, EU 002, EU 003, and EU 004. This exemption expires upon shutdown of the existing facility.  At the time of notification or as soon as possible thereafter, inform the Commissioner of the cause of the breakdown and estimated duration. Notify the Commissioner again when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Shutdowns: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any process or control equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. At the time of notification, inform the Commissioner of the cause of the shutdown and the estimated duration. 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. Notify the Commissioner again when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
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 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). Submit the report on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** GP 001 Emergency Generators**Associated Items:** EU 010 Emergency Diesel Generator #1

EU 011 Emergency Diesel Generator #2

What to do	Why to do it
See GP 005 for requirements related to shutdown of EU 011. These requirements become inapplicable to EU 011 upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Operating Hours: less than or equal to 816 hours/year on a 12-month rolling sum basis as a total for GP 001. After removal of EU 011, this limit applies to EU 010 only.	Title I Condition: Previously permitted limit to avoid classification of past modification as a major modification under 40 CFR Section 52.21; Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.8 lbs/hour . This limit applies individually to each generator.	Minn. R. 7009.0020
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input . This limit applies individually to each generator.	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained. This limit applies individually to each generator.	Minn. R. 7011.2300, subp. 1
Permitted Fuel: diesel fuel only.	Minn. R. 7007.0800, subp. 2
Recordkeeping: By the last day of each month, calculate and record the GP 001 operating hours for the previous month and the previous 12-month period.	Title I Condition: Recordkeeping to avoid classification of a past modification as a major modification under 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 5
Fuel Supplier Receipts: Keep on-site fuel receipts for each fuel shipment. Each receipt shall specify the type of fuel oil delivered.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** GP 002 Combustion Turbines and Duct Burners**Associated Items:** CE 017 SCR (Selective Catalytic Reduction)

CE 018 SCR (Selective Catalytic Reduction)

CE 019 Dry Low-NOx Combustors

CE 020 Dry Low-NOx Combustors

EU 013 Combustion Turbine #7

EU 014 Combustion Turbine #8

EU 015 Duct Burners #7

EU 016 Duct Burners #8

SV 011 #7 Combustion Turbine &amp; Duct Burners; CE 017 (SCR) &amp; CE 019 (DLN)

SV 012 #8 Combustion Turbine &amp; Duct Burners; CE 018 (SCR) &amp; CE 020 (DLN)

What to do	Why to do it
This source is subject to the U.S. EPA Acid Rain Program codified at 40 CFR Parts 72, 73, and 75. Each combustion turbine and duct burner (EU 013/EU 015 and EU 014/EU 016) is a utility unit that also is a gas-fired unit and a new unit, as defined in 40 CFR Section 72.2. Some of the Acid Rain Program requirements are included in Tables A and B for MPCA tracking purposes. The Permittee's application for an acid rain permit for the combustion turbines is attached in the appendix to this permit.	40 CFR Parts 72, 73, and 75
<p>A. LIMITS</p> <p>These limits apply individually to each stack and only when the combustion turbines are operating in normal mode. These limits do not apply during startup, shutdown, malfunction, and combustion turbine shakedown (as defined in Table A Subject Items Total Facility and GP 005).</p> <p>Each calendar day is composed of eight consecutive 3-hour time blocks starting at midnight. Each 3-hour block average is determined by averaging all 1-minute averages during operation other than during startup, shutdown, and malfunction, to determine the 15-minute average. The 15-minute averages are used to determine the 1-hour average and the 1-hour averages are used to determine the 3-hour block average.</p>	hdr
Carbon Monoxide: less than or equal to 10 parts per million using 3-hour Block Average by volume at 15% oxygen and on a dry basis, without duct firing.	Title I Condition: 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 18 parts per million using 3-hour Block Average by volume at 15% oxygen and on a dry basis, with duct firing.	Title I Condition: 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 2.0 parts per million using 3-hour Block Average by volume at 15% oxygen and on a dry basis without duct firing, as methane.	Title I Condition: 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 13 parts per million using 3-hour Block Average by volume at 15% oxygen and on a dry basis with duct firing, as methane.	Title I Condition: 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 3.8 parts per million using 30-day Rolling Average by volume at 15% oxygen and on a dry basis, with or without duct firing. This is equivalent to 0.011 lb/mmBtu at 100% load with duct firing at 45 degrees F.	Minn. R. 7007.0800, subp. 2 to meet NOx level in Metropolitan Emissions Reduction Project
B. OPERATING RESTRICTIONS	hdr
Permitted Fuel: Pipeline natural gas only for the combustion turbines and duct burners.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

Startup and Shutdown Operating Hours: less than or equal to 1468 hours/year on a 12-month rolling sum basis for both combustion turbines combined. During the initial 11 months after completion of combustion turbine shakedown, the applicable cumulative limit shall be:	Title I Condition: 40 CFR Section 52.21(j) CO and VOC BACT Operating Limit; Minn. R. 7007.3000																								
<table> <tr> <th>Month</th><th>SUSD Hours</th></tr> <tr><td>1</td><td>300</td></tr> <tr><td>2</td><td>500</td></tr> <tr><td>3</td><td>600</td></tr> <tr><td>4</td><td>700</td></tr> <tr><td>5</td><td>800</td></tr> <tr><td>6</td><td>900</td></tr> <tr><td>7</td><td>1000</td></tr> <tr><td>8</td><td>1100</td></tr> <tr><td>9</td><td>1195</td></tr> <tr><td>10</td><td>1288</td></tr> <tr><td>11</td><td>1378</td></tr> </table>	Month	SUSD Hours	1	300	2	500	3	600	4	700	5	800	6	900	7	1000	8	1100	9	1195	10	1288	11	1378	
Month	SUSD Hours																								
1	300																								
2	500																								
3	600																								
4	700																								
5	800																								
6	900																								
7	1000																								
8	1100																								
9	1195																								
10	1288																								
11	1378																								
Startup, Shutdown, and Malfunction: The terms "startup", "shutdown", and "malfunction" shall have the same meanings as defined in 40 CFR Section 60.2.  For the purposes of this permit, startup is complete and normal operation commences upon initial attainment of 75% load as indicated by the combustion turbine control system. Shutdown commences and normal operation ceases upon initial drop of load below 75%.  On-line operations of less than 45 minutes duration are considered off-line for startup determination purposes.	Title I Condition: 40 CFR Section 52.21(j) BACT Operating Limit; Minn. R. 7007.3000																								
Control Equipment Operation During Startup and Shutdown: Operation of CE 017 and CE 018 is not required during EU 013 and EU 014 startup, respectively, but shall be initiated prior to the SCR inlet duct gas temperature reaching 600 degrees F. During shutdown, the control equipment shall continue to operate as long as is physically possible.	Minn. R. 7007.0800, subp. 2																								
C. MONITORING	hdr																								
Emissions Monitoring: The Permittee shall measure or calculate SO <sub>2</sub> , NO <sub>x</sub> , and CO <sub>2</sub> emission rates for each affected unit in accordance with 40 CFR part 75.	40 CFR Section 75.10; meets requirements of 40 CFR Section 64.3(d) for NO <sub>x</sub>																								
Emissions Monitoring: The Permittee shall use a Continuous Emissions Monitoring System (CEMS) to measure NO <sub>x</sub> emissions, and measure or calculate SO <sub>2</sub> and CO <sub>2</sub> in accordance with 40 CFR Part 75 for each stack in GP 002. The Permittee shall measure NO <sub>x</sub> emissions in ppmvd corrected to 15% oxygen and automatically calculate and record the 1-hour and 3-hour average NO <sub>x</sub> emission rates. NO <sub>x</sub> ppmvd emission data shall also be converted to lb/mmBtu as required by part 75.	40 CFR Section 60.47a(c); 40 CFR Section 60.334(e); 40 CFR Section 75.10; Minn. R. 7007.0800, subp. 4; Minn. R. 7011.0560 and 7011.2350																								
Emissions Monitoring: The owner or operator shall use a CEMS to measure CO emissions in ppmvd corrected to 15% oxygen. The Permittee shall automatically calculate and record the 1-hour and 3-hour average CO emission rates.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) CO BACT limit; Minn. R. 7007.3000; Minn. R. 7011.0560 and 7011.2350																								
Operating Load and Operating Conditions Monitoring. The Permittee shall:  1. continuously monitor, determine, and record the hourly heat input rate (mmBtu/hr) for EU 013/EU 015 and EU 014/EU 016 using the methods specified at 40 CFR Part 75, Appendix D Section 3.4;  2. monitor and record the date, start and stop times, and duration of each startup, shutdown, and malfunction for each combustion turbine.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) CO BACT limit; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4																								
D. CONTINUOUS EMISSIONS MONITORING (CEM) REQUIREMENTS	hdr																								
CO CEM requirements apply individually to the CO CEM system on each stack. NO <sub>x</sub> CEM requirements apply individually to the NO <sub>x</sub> CEM system on each stack.																									
Installation Notification: due 60 days before installing any continuous emissions monitoring system.	Minn. R. 7017.1040, subp. 1																								
CO CEMS Certification Test: due within 90 days after the due-date of the first excess emissions report required for the CO CEMS. Follow the Performance Specifications listed in 40 CFR part 60, Appendix B.	Minn. R. 7017.1050, subp. 1																								
NO <sub>x</sub> CEMS Certification Test: due in accordance with 40 CFR Section 75.4(b). Certify all CEMS required by the Acid Rain Program in accordance with 40 CFR part 75, Appendix A.	40 CFR Section 75.4(b)																								
NO <sub>x</sub> and CO CEMS Certification Test Plans: due 45 days before the corresponding CEMS Certification Test.	40 CFR Section 75.62; 40 CFR Section 75.20; Minn. R. 7017.1060, subps. 1 & 2																								
NO <sub>x</sub> and CO CEMS Certification Test Pretest Meeting: due 7 days before the corresponding CEMS Certification Test.	Minn. R. 7017.1060, subp. 3																								
NO <sub>x</sub> and CO CEMS Certification Test Reports: due 45 days after the corresponding CEMS Certification Test.	40 CFR Section 75.63; Minn. R. 7017.1080, subp. 2																								

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

NOx and CO CEMS Certification Test Report - Microfiche Copy: due 105 days after the corresponding CEMS Certification Test. This report may be submitted in alternate format such as CD-ROM, as allowed by Minn. R. 7017.1120, subp. 2.	Minn. R. 7017.1080, subp. 3 and 7017.1120, subp. 2
NOx CEMS Quality Assurance/Quality Control (QA/QC): The Permittee shall operate, calibrate, and maintain the NOx CEMS according to the QA/QC procedure in 40 CFR part 75, Appendix B, as amended.	40 CFR Section 75.21
CO CEMS QA Plan: Develop and implement a written quality assurance plan for the CO CEMS. The plan shall be on site and available for inspection within 30 days after CO CEMS certification. The plan shall contain all information required by 40 CFR part 60, Appendix F, section 3.  The plan shall include the manufacturer's spare parts list for the CO CEMS. The parts shall be kept at the facility unless the commissioner gives written approval to exclude specific spare parts from the list.	Minn. R. 7017.1170, subp. 2
NOx CEMS and CO CEMS Continuous Operation: The NOx CEMS and CO CEMS 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. The CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment.  Acceptable CEM 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
NOx CEMS Daily Calibration Error (CE) Test: Conduct daily CE testing on the NOx CEMS in accordance with 40 CFR part 75, Appendix B.	40 CFR part 75, Appendix B, section 2.1
CO CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily. The CO CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR part 60, Appendix B. 40 CFR part 60, Appendix F shall be used to determine out-of-control periods for the CO CEMS. Follow the procedures in 40 CFR part 60, Appendix F.	Minn. R. 7017.1170, subp. 3
Linearity and Leak Check Test (Acid Rain Program): due before end of each calendar quarter following CEM Certification Test. Conduct a quarterly linearity test on the NOx CEMS in accordance with 40 CFR part 75, Appendix B.	40 CFR part 75, Appendix B, section 2.2
NOx CEMS Linearity Test Results Summary: due 30 days after end of each calendar quarter following Linearity and Leak Check Test if performed.	Minn. R. 7017.1180, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test. Conduct a NOx CEMS RATA, in accordance with 40 CFR part 75, Appendix B. If the RATA results indicate a relative accuracy of 7.5% or less, the next RATA is not required for twelve months.	40 CFR part 75, Appendix B, section 2.3
CO CEMS RATA: due before end of each calendar year following CO CEMS Certification Test. If the relative accuracy is 15% or less the next CO CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR part 60, Appendices B and F.	Minn. R. 7017.1170, subp. 5
NOx and CO CEMS RATA Notification: due 30 days before the corresponding CEMS RATA.	Minn. R. 7017.1180, subp. 2
NOx and CO CEMS RATA Results Summary: due 30 days after end of each calendar quarter in which the corresponding CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3
CO CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year following CEMS Certification Test. Conduct CGA at least 3 months apart and not greater than 8 months apart. Follow the procedures in 40 CFR part 60, Appendix F.	Minn. R. 7017.1170, subp. 4
CO CEMS CGA Results Summary: due 30 days after end of each calendar half-year following CGA.	Minn. R. 7017.1180, subp. 1
Recordkeeping: The owner or operator must retain records of all CEMS 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; 40 CFR Section 75.50
E. RECORDKEEPING	hdr
Recordkeeping - Startup and Shutdown Operating Hours: The Permittee shall record the startup and shutdown operating hours for each combustion turbine, once each day of combustion turbine operation.  By the last day of each month the Permittee shall calculate and record the total startup and shutdown operating hours for each combustion turbine for the previous month and the previous 12-month period.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

F. PERFORMANCE TESTING  See Table A GP 003 and GP 004 for additional performance testing requirements for the combustion turbines and duct burners, respectively. See Table A page A-3 for additional requirements regarding performance test notifications and submittals.	hdr
Initial Performance Test: due 180 days after Initial Startup but no later than 60 days after achieving the maximum production rate, to measure NOx emissions from SV 011 and SV 012. Duct burners shall be operated during testing. Separate tests shall be conducted on each stack/vent.	Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of each combined cycle combustion turbine to measure VOC emissions as methane. Separate tests shall be conducted with and without duct firing.	Title I Condition: 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000

# TABLE A: LIMITS AND OTHER REQUIREMENTS

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** GP 003 Combustion Turbines

**Associated Items:** CE 017 SCR (Selective Catalytic Reduction)

CE 018 SCR (Selective Catalytic Reduction)

CE 019 Dry Low-NOx Combustors

CE 020 Dry Low-NOx Combustors

EU 013 Combustion Turbine #7

EU 014 Combustion Turbine #8

SV 011 #7 Combustion Turbine & Duct Burners; CE 017 (SCR) & CE 019 (DLN)

SV 012 #8 Combustion Turbine & Duct Burners; CE 018 (SCR) & CE 020 (DLN)

What to do	Why to do it
The Following Requirements Apply Individually to Each Combustion Turbine	hdr
<p>Nitrogen Oxides: less than or equal to the concentration determined according to the following equation on a 4-hour rolling average basis:</p> $STD = 0.0075 \cdot (14.4/Y) + F$ <p>where:</p> <p>STD = allowable NOx emissions in percent by volume at 15% O2 on a dry basis  Y = manufacturer's rated heat input at manufacturer's rated load in kilojoules/W-hr, not to exceed 14.4 kilojoules/W-hr  F = NOx emission allowance for fuel-bound nitrogen (Permittee can elect to not take a fuel-bound nitrogen allowance and F is then equal to zero)</p>	40 CFR Sections 60.332(a)(1) and 60.334(j)(1)(iii)(A); Minn. R. 7011.2350
Sulfur Dioxide: less than or equal to 150 parts per million by volume at 15% oxygen on a dry basis.	40 CFR Section 60.333(a); meets requirements of Minn. R. 7011.2300, subp. 2; Minn. R. 7011.2350
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
NOx Monitoring: The Permittee may use a CEM to measure NOx emissions according to 40 CFR Sections 60.334(e). (Note this requirement is met by the GP 002 requirement that the Permittee shall use a NOx CEMS to measure total NOx emissions from the combustion turbine and duct burner for each combined cycle stack/vent.)	40 CFR Sections 60.334(e); Minn. R. 7011.2350
Fuel Monitoring: The Permittee shall follow the applicable fuel sulfur and nitrogen content monitoring requirements in Section 60.334(h) and shall monitor at the frequency specified in 60.334(i).	40 CFR Sections 60.334(h) and (i); Minn. R. 7011.2350
Excess Emission Reports: The Permittee shall submit reports of excess emissions required by Section 60.334(j) with the EER required for SV 001 and SV 002 listed in Table B of this permit.	40 CFR Section 60.334(j); Minn. R. 7011.2350
Initial Performance Test: due 180 days after Initial Startup to measure NOx and SO2 from each combustion turbine as required by 40 CFR Section 60.335, unless the Permittee obtains approval from the Administrator to use alternate test methods according to Section 60.8(b).	40 CFR Sections 60.8(a) and 60.335; Minn. R. 7011.2350

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** GP 004 Duct Burners**Associated Items:** CE 017 SCR (Selective Catalytic Reduction)

CE 018 SCR (Selective Catalytic Reduction)

EU 015 Duct Burners #7

EU 016 Duct Burners #8

SV 011 #7 Combustion Turbine &amp; Duct Burners; CE 017 (SCR) &amp; CE 019 (DLN)

SV 012 #8 Combustion Turbine &amp; Duct Burners; CE 018 (SCR) &amp; CE 020 (DLN)

What to do	Why to do it
The Following Limits and Operating Requirements Apply Individually to Each Set of Duct Burners for Each Combustion Turbine Generator	hdr
Total Particulate Matter: less than or equal to 0.03 lbs/million Btu heat input except during startup, shutdown, or malfunction.	40 CFR Sections 60.42a(a)(1) and 60.46a(c); Minn. R. 7011.0560
Sulfur Dioxide: less than or equal to 0.20 lbs/million Btu heat input using 30-day Rolling Average except during startup, shutdown, or malfunction.	40 CFR Sections 60.43a(b)(2) and 60.46a(c); Minn. R. 7011.0560
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 27 percent opacity.	40 CFR Sections 60.42a(b); Minn. R. 7011.0560
Nitrogen Oxides: less than or equal to 1.6 lbs/megawatt-hour except during startup, shutdown, or malfunction. This limit is based on a 30-day rolling average except as provided under Section 60.46a(k)(1).	40 CFR Sections 60.44a(d)(1) and 60.46a(c); Minn. R. 7011.0560
Duct Burner Compliance and Monitoring Provisions: The Permittee shall follow the compliance provisions in 40 CFR Sections 60.46a(k)(1) or 60.46a(k)(2) to determine duct burner compliance with the NOx limit in Section 60.44a(d)(1). The Permittee shall also follow the additional requirements of 40 CFR Section 60.46a(k)(3) for determining duct burner compliance with the NOx limit in 40 CFR Section 60.44a(d)(1).	40 CFR Section 60.46a(k); Minn. R. 7011.0560
Initial Performance Test: due 180 days after Initial Startup to measure PM, NOx, SO2, and opacity from each set of duct burners, as required by 40 CFR Section 60.48a, unless the Permittee obtains approval from the Administrator to use alternate test methods according to Section 60.8(b).	40 CFR Sections 60.8(a) and 60.48a; Minn. R. 7011.0560
Reporting: Follow reporting requirements in Section 60.49a as applicable.	40 CFR Section 60.49a; Minn. R. 7011.0560

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item: GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown**

**Associated Items:**

- CE 001 Electrostatic Precipitator - High Efficiency
- CE 002 Electrostatic Precipitator - High Efficiency
- CE 003 Electrostatic Precipitator - High Efficiency
- CE 004 Electrostatic Precipitator - High Efficiency
- CE 005 Electrostatic Precipitator - High Efficiency
- CE 006 Electrostatic Precipitator - High Efficiency
- CE 007 Electrostatic Precipitator - High Efficiency
- CE 008 Electrostatic Precipitator - High Efficiency
- CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
- CE 010 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
- CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
- CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
- CE 013 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
- CE 014 Dust Suppression by Water Spray
- CM 001 Boilers 3-6: 7439 lbs SO<sub>2</sub>/hr, SV001, 1-hr ave.
- CM 002 Boilers 3-6: 1.95 lbs SO<sub>2</sub>/mmBtu, SV001, 1-hr ave.
- CM 003 Boilers 3-6: 20% Opacity, SV001, 1-min ave.
- DA 001 DAS for SV 001 Monitors
- EU 001 Boiler 3
- EU 002 Boiler 4
- EU 003 Boiler 5
- EU 004 Boiler 6
- EU 005 Railcar Unloading
- EU 006 #5 Feeder Area (Weightometer)
- EU 007 Bunker Room Conveying
- EU 008 Fly Ash Transfer System
- EU 009 Fly Ash Silo
- EU 011 Emergency Diesel Generator #2
- FS 002 Coal Yard Traffic
- FS 003 Coal Storage Pile - Erosion
- FS 004 Scraper Building Hopper
- FS 005 Coal Storage Pile - Placement
- FS 006 Coal Storage Pile - Reclaim
- FS 007 Coal Reclaim Hopper
- FS 008 Ash Hauling Traffic - Industrial Paved
- FS 010 Ash Hauling Traffic - Paved
- MR 001 SV 001 SO<sub>2</sub>
- MR 002 SV 001 SO<sub>2</sub>
- MR 003 SV 001 NO<sub>x</sub>



## TABLE A: LIMITS AND OTHER REQUIREMENTS

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Associated Items:**

- MR 004 SV 001 O2
- MR 005 SV 001 Flow
- MR 006 SV 001 Opacity
- SV 001 Coal boiler common stack
- SV 002 Railcar unload
- SV 003 Railcar unload
- SV 004 #5 feeder area (weightometer)
- SV 005 bunker room conveying
- SV 006 fly ash transfer system
- SV 007 fly ash silo
- SV 009 Emergency diesel generator #2
- SV 010 Temporary Emergency Engine

What to do	Why to do it
Overlapping Operation of Existing and New Facilities: This permit authorizes limited overlapping operation of the existing and new facilities during the new facility combustion turbine shakedown. The existing facility is all associated items in GP 005. The new facility is EU 010, EU 013, EU 014, EU 015, EU 016, EU 017, EU 018, and all associated control equipment, stacks, and monitors.	hdr
Combustion Turbine Shakedown: Combustion turbine shakedown is defined as the period of time commencing on the day prior to the date of the first of the two combustion turbines (EU 013 and EU 014) to go through initial startup and terminating on the date of the first of the two combustion turbines to engage in commercial dispatch or 180 days after the date of the first combustion turbine to go through initial startup, whichever is earlier.  Commercial dispatch occurs when the Midwest Independent System Operator is notified that the combustion turbine is available for commercial electric power generation.	Title I Condition: To avoid major modification as defined in 40 CFR 52.21(b)(2)(i) for PM, PM10, and NOx; Minn. R. 7007.3000
Total Heat Input - Existing Boilers During Combustion Turbine Shakedown: less than or equal to 6,470,000 million Btus. This limit becomes effective on the first day of combustion turbine shakedown.	Title I Condition: To avoid major modification as defined in 40 CFR 52.21(b)(2)(i) for PM, PM10, and NOx; Minn. R. 7007.3000
Total Heat Input Monitoring and Recordkeeping: Use part 75 Appendix F to calculate EU 001, EU 002, EU 003, and EU 004 heat input on an hourly basis using the continuous emission monitoring system during the combustion turbine shakedown period. By the last day of each month, the Permittee shall calculate the cumulative heat input for the previous month and the cumulative heat input for the combustion turbine shakedown period (shakedown starts with the initial startup of EU 013 or EU 014, whichever is earlier).  This recordkeeping requirement expires on the last day of the month following the month that the last of the four boilers (EU 001, EU 002, EU 003, or EU 004) is shutdown/retired.	Title I Condition: Recordkeeping to avoid major modification as defined in 40 CFR 52.21(b)(2)(i) for PM, PM10, and NOx; Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
Existing Facility Shutdown: The Permittee shall permanently shut down the existing facility (all GP 005 Associated Items) including the coal-fired boilers (EU 001, EU 002, EU 003, and EU 004), electrostatic precipitators, coal handling equipment, dust collectors, and coal yard activities on the day following the date of completion of combustion turbine shakedown. Upon existing facility shutdown, all requirements applicable to the existing facility become obsolete, except for this shutdown requirement.	Minn. R. 7007.0800, subp. 2
Retired Unit Exemption Requirements For EU 001, EU 002, EU 003, and EU 004: The Permittee shall comply with all requirements in 40 CFR Section 72.8.	40 CFR Section 72.8
Retired Unit Exemption Form: By December 31 of the first full calendar year during which each coal-fired boiler is permanently retired, submit a complete EPA Retired Unit Exemption form for each coal-fired boiler (EU 001, EU 002, EU 003, and EU 004) to the MPCA with a copy to the EPA .	40 CFR Section 72.8(b)(2)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item: GP 006 Existing Facility Electrostatic Precipitators**

**Associated Items:** CE 001 Electrostatic Precipitator - High Efficiency  
 CE 002 Electrostatic Precipitator - High Efficiency  
 CE 003 Electrostatic Precipitator - High Efficiency  
 CE 004 Electrostatic Precipitator - High Efficiency  
 CE 005 Electrostatic Precipitator - High Efficiency  
 CE 006 Electrostatic Precipitator - High Efficiency  
 CE 007 Electrostatic Precipitator - High Efficiency  
 CE 008 Electrostatic Precipitator - High Efficiency

What to do	Why to do it										
<p>Requirements apply individually to each piece of control equipment. See GP 005 for requirements related to shutdown of CE 001 through CE 008. Each boiler is controlled by two electrostatic precipitators as follows:</p> <table> <tr> <td>Emission Unit</td><td>Associated Control Equipment</td></tr> <tr> <td>EU 001 (boiler 3)</td><td>CE 001 and CE 002</td></tr> <tr> <td>EU 002 (boiler 4)</td><td>CE 003 and CE 004</td></tr> <tr> <td>EU 003 (boiler 5)</td><td>CE 005 and CE 006</td></tr> <tr> <td>EU 004 (boiler 6)</td><td>CE 007 and CE 008</td></tr> </table> <p>The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.</p>	Emission Unit	Associated Control Equipment	EU 001 (boiler 3)	CE 001 and CE 002	EU 002 (boiler 4)	CE 003 and CE 004	EU 003 (boiler 5)	CE 005 and CE 006	EU 004 (boiler 6)	CE 007 and CE 008	hdr
Emission Unit	Associated Control Equipment										
EU 001 (boiler 3)	CE 001 and CE 002										
EU 002 (boiler 4)	CE 003 and CE 004										
EU 003 (boiler 5)	CE 005 and CE 006										
EU 004 (boiler 6)	CE 007 and CE 008										
Operate control equipment when the associated boiler is operating except while burning only natural gas.	Minn. R. 7007.0800, subp. 2										
<p>Each ESP must be operated with no less than the specific collection area (SCA) in service determined during the most-recent particulate matter emissions test with results equal to or less than the particulate matter emission limit.</p> <p>If the sections an the ESP are physically and electrically equivalent, the Permittee can meet this requirement by operating the ESP with no less than the number of sections that were operating during the most-recent particulate matter emissions test with results equal to or less than the particulate matter emission limit.</p>	Minn. R. 7007.0800, subp. 14										
Monitor and record the SCA, or the identity and minimum number of ESP sections if sections are equivalent, in service each day that each ESP is operating. Refer to the ESP diagram in the appendix of this permit for the SCA of each ESP field.	40 CFR Sections 64.6 and 64.9; Minn. R. 7007.0800, subp. 4 and 5										
<p>Upon detecting an exceedance of the opacity limit (listed in EU 001, EU 002, EU 003, and EU 004), or operation of any ESP with SCA that is less than the amount during the most-recent performance test when compliance was demonstrated for PM emissions, the Permittee follow the requirements of 40 CFR Section 64.7(d) to restore the ESP and/or boiler to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.</p> <p>Refer to CAM requirements for the continuous opacity monitor on SV 001 in subject item SV 001 in Table A of this permit.</p>	40 CFR Section 64.7(d)										

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item: GP 007 Existing Facility Fugitive Emission Sources**

**Associated Items:** FS 002 Coal Yard Traffic

FS 003 Coal Storage Pile - Erosion

FS 004 Scraper Building Hopper

FS 005 Coal Storage Pile - Placement

FS 006 Coal Storage Pile - Reclaim

FS 007 Coal Reclaim Hopper

FS 008 Ash Hauling Traffic - Industrial Paved

FS 010 Ash Hauling Traffic - Paved

What to do	Why to do it
See GP 005 for requirements related to shutdown of these associated items in GP 007. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Control FS 002, FS 008, and FS 010 dust by watering, achieving at least 40% control efficiency.	Minn. R. 7009.0020
Control FS 003, FS 005, and FS 006 dust by watering, achieving at least 40% control efficiency. Stockpiles, Stockpile Construction, and Reclaiming: (1) Control fugitive particulate emissions by dust suppression methods on such operations so that fugitive particulate emissions are minimized. Total Particulate Matter: less than or equal to 0.02 grains/dry standard cubic foot.	Minn. R. 7011.1105(F) and Minn. R. 7009.0020
Coal Pile Area (FS 003): The total exposed surface area of all coal piles shall be less than or equal to 7.5 acres or 190,000 tons.	Minn. R. 7009.0020
Monitoring And Recordkeeping - Exposed Coal Pile Surface Area (FS 003): Once each month by the last day of the month the Permittee shall calculate and record the total exposed surface area of all coal piles.	Minn. R. 7007.0800, subp. 4 and 5
Control FS 004 fugitive dust emissions by 50% through the use of a partial enclosure and an additional 40% through use of water sprays. Coal Loading Stations (FS 004): Control fugitive particulate emissions from the loading of trucks or haulers by dust suppression methods so that emissions from such sources are minimized.	Minn R. 7009.0020 and meets the requirements of Minn. R. 7011.1105(B)
Control FS 007 fugitive dust emissions by 50% through the use of a partial enclosure. Coal Loading Stations: Control fugitive particulate emissions from the unloading of trucks or haulers by dust suppression methods so that emissions from such sources are minimized.	Minn. R. 7009.0020 and meets requirements of Minn. R. 7011.1105(F)

# TABLE A: LIMITS AND OTHER REQUIREMENTS

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** SV 001 Coal boiler common stack

**Associated Items:** EU 001 Boiler 3

EU 002 Boiler 4

EU 003 Boiler 5

EU 004 Boiler 6

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

MR 001 SV 001 SO2

MR 002 SV 001 SO2

MR 003 SV 001 NOx

MR 004 SV 001 O2

MR 005 SV 001 Flow

MR 006 SV 001 Opacity

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
A. EMISSION LIMITS	hdr
Sulfur Dioxide: less than or equal to 7439 lbs/hour using 1-Hour Average	Minn. R. 7009.0020
Particulate Matter < 10 micron: less than or equal to 1526 lbs/hour	Minn. R. 7009.0020
B. MONITORING REQUIREMENTS	hdr
Emissions Monitoring: The owner or operator shall use a CEMS to measure SO2, NOx, and CO2 emissions and flow rate for each affected unit in accordance with 40 CFR Section 75.10.	40 CFR pt. 75
Emissions Monitoring: The owner or operator shall use a COMS to measure opacity emissions from SV 001.	40 CFR Sections 64.6 and 64.9; Minn. R. 7017.1000, subp. 1
Daily Calibration Error (CE) Test: conduct daily CE testing on all CEMS required by the Acid Rain Program, in accordance with 40 CFR pt. 75, Appendix B.	40 CFR pt. 75, Appendix B, Section 2.1
Linearity and Leak Check Test (Acid Rain Program): due before end of each calendar quarter starting 07/20/1998 . Conduct a quarterly linearity test on CEMS required by the Acid Rain Program, in accordance with 40 CFR pt. 75, Appendix B.	40 CFR pt. 75, Appendix B, Section 2.2
Linearity Test Results Summary: due 30 days after end of each calendar quarter following Linearity and Leak Check Test (Acid Rain Program) if performed.	Minn. R. 7017.1180, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar half-year starting 07/20/1998 . Conduct a RATA on all CEMS required by the Acid Rain Program, in accordance with 40 CFR pt. 75, Appendix B.	40 CFR pt. 75, Appendix B, Section 2.3
RATA Notification: due 30 days before CEMS RATA	Minn. R. 7017.1180, subp. 2
RATA Results Summary: due 30 days after end of each calendar quarter in which the CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3
CEMS QA/QC: The owner or operator of an affected facility shall operate, calibrate, and maintain each CEM according to the QA/QC procedure in 40 CFR pt. 75, Appendix B as amended.	40 CFR Section 75.21
COMS Continuous Operation: A COMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction. This requirement to operate the monitor 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 the COMS would endanger human health, safety, or plant equipment.	40 CFR Section 64.7; Minn. R. 7017.1090, subp. 1
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 specifications of PS-1 of 40 CFR pt. 60, Appendix B. Daily CD Checks are required only during periods of operation.	40 CFR Section 64.7; Minn. R. 7017.1210, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

COMS Calibration Error Audit: due before end of each calendar half-year following Permit Issuance. 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.	40 CFR Section 64.7; Minn. R. 7017.1210, subp. 3
COMS Calibration Error Audit Results Summary: due 30 days after end of each calendar half-year following COMS Calibration Error Audit	40 CFR Section 64.9; Minn. R. 7017.1220
All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data for each successive 6-minute period.	40 CFR Section 64.7; Minn. R. 7017.1200, subp. 1, 2, and 3
C. RECORDKEEPING	hdr
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support the information for a period of five (5) years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130
Recordkeeping: The owner or operator must retain records of all COMS monitoring data and support information for a period of five (5) years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	40 CFR Section 64.9(b); Minn. R. 7017.1130

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 001 Boiler 3**Associated Items:** CE 001 Electrostatic Precipitator - High Efficiency

CE 002 Electrostatic Precipitator - High Efficiency

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 001 Coal boiler common stack

What to do	Why to do it														
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr														
A. EMISSION LIMITS	hdr														
Sulfur Dioxide: less than or equal to 1.95 lbs/million Btu heat input using 1-Hour Average	Minn. R. 7009.0020; 40 CFR Section 50.6; meets requirements of Minn. R. 7011.0510, subp. 1														
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0510, subp. 1; meets requirements of Minn. R. 7009.0020														
Opacity: less than or equal to 20 percent opacity using 6-minute Average except that a maximum of 60 percent opacity shall be allowable for one six minute period in any 60-minute period.	Minn. R. 7011.0510, subp. 2														
Comply with the applicable Acid Rain emissions limitation of sulfur dioxide.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
NOx Averaging Plan  Beginning January 1, 2000 either:  Maintain an annual average NOx emission rate of 0.60 lbs/MMBtu and limit the annual heat input to less than or equal to 1,771,500 MMBtu per year.  OR  Maintain a Btu-weighted annual average emission rate in lbs/MMBtu, averaged over the units specified in the NOx averaging plan, that is less than or equal to the Btu-weighted annual average emission rate averaged over the same units had they each been operated during the same period of time in compliance with the applicable emission limitations in 40 CFR Sections 76.5, 76.6, or 76.7. Units covered in the plan are:  <table> <tr> <td>Plant</td><td>Boiler ID#</td></tr> <tr> <td>Allen S. King</td><td>1</td></tr> <tr> <td>Black Dog</td><td>1,3,4</td></tr> <tr> <td>High Bridge</td><td>3,4,5,6</td></tr> <tr> <td>Minnesota Valley</td><td>4</td></tr> <tr> <td>Riverside</td><td>6,7,8</td></tr> <tr> <td>Sherburne County</td><td>1,2,3</td></tr> </table>	Plant	Boiler ID#	Allen S. King	1	Black Dog	1,3,4	High Bridge	3,4,5,6	Minnesota Valley	4	Riverside	6,7,8	Sherburne County	1,2,3	40 CFR Section 76.11
Plant	Boiler ID#														
Allen S. King	1														
Black Dog	1,3,4														
High Bridge	3,4,5,6														
Minnesota Valley	4														
Riverside	6,7,8														
Sherburne County	1,2,3														
B. OPERATIONAL REQUIREMENTS	hdr														
Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount not less than the total annual emissions of sulfur dioxide for the previous calendar year.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
Allowed fuel types: bituminous coal, subbituminous coal, distillate fuel oil, natural gas, used oil, non-hazardous spill clean-up materials, non-hazardous parts cleaning agents and non-hazardous boiler cleaning agents.	Minn. R. 7007.0800, subp. 2														
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight for distillate fuel oil.	Minn. R. 7007.0800, subp 2; meets SO2 emission limit requirement in Minn. R. 7011.0510, subp. 1														
Combust used oil in accordance with used oil regulations in Minn. R. ch. 7045. Limit used oil combustion to 5% of total fuel mass input on an hourly basis.	Minn. R. 7007.0800, subp. 2; Minn. R. ch. 7045														
Boiler chemical cleaning waste limited to: 8.5 gpm per 100,000 lbs/hr steam flow, unless good combustion is demonstrated at a higher flow rate; cleaning waste shall be introduced into the boiler when the boiler is operating at a level of at least 75 percent of rated capacity; records of boiler cleaning agent incineration shall be kept on file, including dates, amounts, origin of material, cleaning agent boiler feed rate, and operating capacity of the boiler during incineration, including steam flow.	Minn. R. 7007.0800, subp. 2														
C. TESTING REQUIREMENTS	hdr														
Performance Test: due before 04/30/2006 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1														

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

D. RECORD KEEPING	hdr
Keep on site at the source each of the following documents for a period of five (5) years from the date the document was created: The certificate of representation, all emissions monitoring information, copies of all reports, compliance certifications, and other submissions or records made under the Acid Rain Program, copies of all documents used to complete an acid rain permit application.	40 CFR Section 72.9(f)(l)
E. REPORTING	hdr
Each submission under the Acid Rain Program shall be submitted, signed, and certified by the designated representative for all sources on behalf of which the submission is made in accordance with 40 CFR Section 72.21.	40 CFR Section 72.21
If the unit has excess emissions, the designated representative shall submit a proposed offset plan in accordance with 40 CFR Section 72.9(e).	40 CFR Section 72.9(e)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 002 Boiler 4**Associated Items:** CE 003 Electrostatic Precipitator - High Efficiency

CE 004 Electrostatic Precipitator - High Efficiency

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 001 Coal boiler common stack

What to do	Why to do it														
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr														
A. EMISSION LIMITS	hdr														
Sulfur Dioxide: less than or equal to 1.95 lbs/million Btu heat input using 1-Hour Average	Minn. R. 7009.0020; 40 CFR Section 50.6; meets requirements of Minn. R. 7011.0510, subp. 1														
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0510, subp. 1; meets requirements of Minn. R. 7009.0020														
Opacity: less than or equal to 20 percent opacity using 6-minute Average except that a maximum of 60 percent opacity shall be allowable for one six minute period in any 60-minute period.	Minn. R. 7011.0510, subp. 2														
Comply with the applicable Acid Rain emissions limitation of sulfur dioxide.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
NOx Averaging Plan  Beginning January 1, 2000 either:  Maintain an annual average NOx emission rate of 0.60 lbs/MMBtu and limit the annual heat input to less than or equal to 1,771,500 MMBtu per year.  OR  Maintain a Btu-weighted annual average emission rate in lbs/MMBtu, averaged over the units specified in the NOx averaging plan, that is less than or equal to the Btu-weighted annual average emission rate averaged over the same units had they each been operated during the same period of time in compliance with the applicable emission limitations in 40 CFR Sections 76.5, 76.6, or 76.7. Units covered in the plan are:  <table> <tr> <td>Plant</td><td>Boiler ID#</td></tr> <tr> <td>Allen S. King</td><td>1</td></tr> <tr> <td>Black Dog</td><td>1,3,4</td></tr> <tr> <td>High Bridge</td><td>3,4,5,6</td></tr> <tr> <td>Minnesota Valley</td><td>4</td></tr> <tr> <td>Riverside</td><td>6,7,8</td></tr> <tr> <td>Sherburne County</td><td>1,2,3</td></tr> </table>	Plant	Boiler ID#	Allen S. King	1	Black Dog	1,3,4	High Bridge	3,4,5,6	Minnesota Valley	4	Riverside	6,7,8	Sherburne County	1,2,3	40 CFR Section 76.11
Plant	Boiler ID#														
Allen S. King	1														
Black Dog	1,3,4														
High Bridge	3,4,5,6														
Minnesota Valley	4														
Riverside	6,7,8														
Sherburne County	1,2,3														
B. OPERATIONAL REQUIREMENTS	hdr														
Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount not less than the total annual emissions of sulfur dioxide for the previous calendar year.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
Allowed fuel types: bituminous coal, subbituminous coal, distillate fuel oil, natural gas, used oil, non-hazardous spill clean-up materials, non-hazardous parts cleaning agents and non-hazardous boiler cleaning agents.	Minn. R. 7007.0800, subp. 2														
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight for distillate fuel oil.	Minn. R. 7007.0800, subp 2; meets SO2 emission limit requirement in Minn. R. 7011.0510, subp. 1														
Combust used oil in accordance with used oil regulations in Minn. R. ch. 7045. Limit used oil combustion to 5% of total fuel mass input on an hourly basis.	Minn. R. 7007.0800, subp. 2; Minn. R. ch. 7045														
Boiler chemical cleaning waste limited to: 8.5 gpm per 100,000 lbs/hr steam flow, unless good combustion is demonstrated at a higher flow rate; cleaning waste shall be introduced into the boiler when the boiler is operating at a level of at least 75 percent of rated capacity; records of boiler cleaning agent incineration shall be kept on file, including dates, amounts, origin of material, cleaning agent boiler feed rate, and operating capacity of the boiler during incineration, including steam flow.	Minn. R. 7007.0800, subp. 2														
C. TESTING REQUIREMENTS	hdr														
Performance Test: due before 12/31/2005 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1														



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

D. RECORD KEEPING	hdr
Keep on site at the source each of the following documents for a period of five (5) years from the date of permit issuance: The certificate of representation, all emissions monitoring information, copies of all reports, compliance certifications, and other submissions or records made under the Acid Rain Program, copies of all documents used to complete an acid rain permit application.	40 CFR Section 72.9(f)(l)
E. REPORTING	hdr
Each submission under the Acid Rain Program shall be submitted, signed, and certified by the designated representative for all sources on behalf of which the submission is made in accordance with 40 CFR Section 72.21.	40 CFR Section 72.21
If the unit has excess emissions, the designated representative shall submit a proposed offset plan in accordance with 40 CFR Section 72.9(e).	40 CFR Section 72.9(e)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 003 Boiler 5

**Associated Items:** CE 005 Electrostatic Precipitator - High Efficiency

CE 006 Electrostatic Precipitator - High Efficiency

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 001 Coal boiler common stack

What to do	Why to do it														
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr														
A. EMISSION LIMITS	hdr														
Sulfur Dioxide: less than or equal to 1.95 lbs/million Btu heat input using 1-Hour Average	Minn. R. 7009.0020; 40 CFR Section 50.6; meets requirements of Minn. R. 7011.0510, subp. 1														
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0510, subp. 1; meets requirements of Minn. R. 7009.0020														
Opacity: less than or equal to 20 percent opacity using 6-minute Average except that a maximum of 60 percent opacity shall be allowable for one six minute period in any 60-minute period.	Minn. R. 7011.0510, subp. 2														
Comply with the applicable Acid Rain emissions limitation of sulfur dioxide.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
NOx Averaging Plan  Beginning January 1, 2000 either:  Maintain an annual average NOx emission rate of 0.60 lbs/MMBtu and limit the annual heat input to less than or equal to 5,037,000 MMBtu per year.  OR  Maintain a Btu-weighted annual average emission rate in lbs/MMBtu, averaged over the units specified in the NOx averaging plan, that is less than or equal to the Btu-weighted annual average emission rate averaged over the same units had they each been operated during the same period of time in compliance with the applicable emission limitations in 40 CFR Sections 76.5, 76.6, or 76.7. Units covered in the plan are:  <table> <tr> <td>Plant</td><td>Boiler ID#</td></tr> <tr> <td>Allen S. King</td><td>1</td></tr> <tr> <td>Black Dog</td><td>1,3,4</td></tr> <tr> <td>High Bridge</td><td>3,4,5,6</td></tr> <tr> <td>Minnesota Valley</td><td>4</td></tr> <tr> <td>Riverside</td><td>6,7,8</td></tr> <tr> <td>Sherburne County</td><td>1,2,3</td></tr> </table>	Plant	Boiler ID#	Allen S. King	1	Black Dog	1,3,4	High Bridge	3,4,5,6	Minnesota Valley	4	Riverside	6,7,8	Sherburne County	1,2,3	40 CFR Section 76.11
Plant	Boiler ID#														
Allen S. King	1														
Black Dog	1,3,4														
High Bridge	3,4,5,6														
Minnesota Valley	4														
Riverside	6,7,8														
Sherburne County	1,2,3														
B. OPERATIONAL REQUIREMENTS	hdr														
Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount not less than the total annual emissions of sulfur dioxide for the previous calendar year.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
Allowed fuel types: bituminous coal, subbituminous coal, distillate fuel oil, natural gas, used oil, non-hazardous spill clean-up materials, non-hazardous parts cleaning agents and non-hazardous boiler cleaning agents.	Minn. R. 7007.0800, subp. 2														
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight for distillate fuel oil.	Minn. R. 7007.0800, subp 2; meets SO2 emission limit requirement in Minn. R. 7011.0510, subp. 1														
Combust used oil in accordance with used oil regulations in Minn. R. ch. 7045. Limit used oil combustion to 5% of total fuel mass input on an hourly basis.	Minn. R. 7007.0800, subp. 2; Minn. R. ch. 7045														
Boiler chemical cleaning waste limited to: 8.5 gpm per 100,000 lbs/hr steam flow, unless good combustion is demonstrated at a higher flow rate; cleaning waste shall be introduced into the boiler when the boiler is operating at a level of at least 75 percent of rated capacity; records of boiler cleaning agent incineration shall be kept on file, including dates, amounts, origin of material, cleaning agent boiler feed rate, and operating capacity of the boiler during incineration, including steam flow.	Minn. R. 7007.0800, subp. 2														
C. TESTING REQUIREMENTS	hdr														
Performance Test: due before 06/03/2008 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1														

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

<p>Boiler Alternative Operating Conditions for Performance Testing:</p> <p>Alternative Operating Conditions during testing are defined as 90 percent to 100 percent of the boiler's maximum normal (continuous) operating load or the maximum permitted operating rate, whichever is lower. The basis for this number must be included in the test plan. If testing is conducted at the alternative operating condition established, an operating limit will not be established as a result of performance testing.</p> <p>In no case will the new operating rate limit be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>Boiler Operating Conditions Not Meeting the Alternative Operating Conditions During Performance Testing:</p> <p>If performance testing is not conducted at or above the established alternative operating condition, then the boiler operating rate will be limited on an 8-hour block average based on the following:</p> <p>(1) If the results of the performance test are greater than 90 percent of any applicable emission limit for which emissions are measured, then the boiler operation will be limited to the tested operating rate.</p> <p>(2) If results are less than or equal to 90 percent of all applicable emission limits for which emissions are measured, boiler operation will be limited to 110 percent of the tested operating rate.</p> <p>In no case will the new operating rate limit be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>STET (Short Term Emergency and Testing) Operating Hours Limit:</p> <p>The boiler may operate up to 40 hours per year to demonstrate the Uniform Rating of Generating Equipment (URGE) capacity and to meet emergency energy supply needs. Documentation of all STET operation shall be maintained. The boiler must meet emission limits during STET operation.</p>	Minn. R. 7007.0800, subp. 2
<p>STET Operation Definition that applies to Boilers that Meet or do Not Meet the Alternative Operating Conditions for Performance Testing:</p> <p>If performance test results measure emissions at 90 percent or less of any applicable emission limits for any tested pollutant, STET operation is defined as operation beyond 110 percent of the average operating rate achieved during that performance test.</p> <p>If performance test results measure emissions at greater than 90 percent of any applicable emission limit for any tested pollutant, STET operation is defined as operation beyond 100 percent of the average operating rate achieved during that performance test.</p> <p>In no case will STET operation be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.</p>	Minn. R. 7017.2020, subp. 4
D. RECORD KEEPING	hdr
<p>Keep on site at the source each of the following documents for a period of five (5) years from the date the document was created: The certificate of representation, all emissions monitoring information, copies of all reports, compliance certifications, and other submissions or records made under the Acid Rain Program, copies of all documents used to complete an acid rain permit application.</p>	40 CFR Section 72.9(f)(l)
E. REPORTING	hdr
<p>Each submission under the Acid Rain Program shall be submitted, signed, and certified by the designated representative for all sources on behalf of which the submission is made in accordance with 40 CFR Section 72.21.</p>	40 CFR Section 72.21
<p>If the unit has excess emissions, the designated representative shall submit a proposed offset plan in accordance with 40 CFR Section 72.9(e).</p>	40 CFR Section 72.9(e)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 004 Boiler 6**Associated Items:** CE 007 Electrostatic Precipitator - High Efficiency

CE 008 Electrostatic Precipitator - High Efficiency

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 001 Coal boiler common stack

What to do	Why to do it														
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr														
A. EMISSION LIMITS	hdr														
Sulfur Dioxide: less than or equal to 1.95 lbs/million Btu heat input using 1-Hour Average	Minn. R. 7011.0510, subp. 1; meets requirements of Minn. R. 7009.0020 and 40 CFR Section 50.6														
Total Particulate Matter: less than or equal to 0.4 lbs/million Btu heat input	Minn. R. 7011.0510, subp. 1; meets requirements of Minn. R. 7009.0020														
Opacity: less than or equal to 20 percent opacity using 6-minute Average except that a maximum of 60 percent opacity shall be allowable for one six minute period in any 60-minute period.	Minn. R. 7011.0510, subp. 2														
Comply with the applicable Acid Rain emissions limitation of sulfur dioxide.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
NOx Averaging Plan  Beginning January 1, 2000 either:  Maintain an annual average NOx emission rate of 0.60 lbs/MMBtu and limit the annual heat input to less than or equal to 10,313,000 MMBtu per year.  OR  Maintain a Btu-weighted annual average emission rate in lbs/MMBtu, averaged over the units specified in the NOx averaging plan, that is less than or equal to the Btu-weighted annual average emission rate averaged over the same units had they each been operated during the same period of time in compliance with the applicable emission limitations in 40 CFR Sections 76.5, 76.6, or 76.7. Units covered in the plan are:  <table> <tr> <td>Plant</td><td>Boiler ID#</td></tr> <tr> <td>Allen S. King</td><td>1</td></tr> <tr> <td>Black Dog</td><td>1,3,4</td></tr> <tr> <td>High Bridge</td><td>3,4,5,6</td></tr> <tr> <td>Minnesota Valley</td><td>4</td></tr> <tr> <td>Riverside</td><td>6,7,8</td></tr> <tr> <td>Sherburne County</td><td>1,2,3</td></tr> </table>	Plant	Boiler ID#	Allen S. King	1	Black Dog	1,3,4	High Bridge	3,4,5,6	Minnesota Valley	4	Riverside	6,7,8	Sherburne County	1,2,3	40 CFR Section 76.11
Plant	Boiler ID#														
Allen S. King	1														
Black Dog	1,3,4														
High Bridge	3,4,5,6														
Minnesota Valley	4														
Riverside	6,7,8														
Sherburne County	1,2,3														
B. OPERATIONAL LIMITS	hdr														
Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount not less than the total annual emissions of sulfur dioxide for the previous calendar year.	40 CFR Section 72.9(c)(1)(i), 40 CFR Section 72.9(g)(4)														
Allowed fuel types: bituminous coal, subbituminous coal, distillate fuel oil, natural gas, used oil, non-hazardous spill clean-up materials, non-hazardous parts cleaning agents and non-hazardous boiler cleaning agents.	Minn. R. 7007.0800, subp. 2														
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight for distillate fuel oil.	Minn. R. 7007.0800, subp 2; meets SO2 emission limit requirement in Minn. R. 7011.0510, subp. 1														
Combust used oil in accordance with used oil regulations in Minn. R. ch. 7045. Limit used oil combustion to 5% of total fuel mass input on an hourly basis.	Minn. R. 7007.0800, subp. 2; Minn. R. ch. 7045														
Boiler chemical cleaning waste limited to: 8.5 gpm per 100,000 lbs/hr steam flow, unless good combustion is demonstrated at a higher flow rate; cleaning waste shall be introduced into the boiler when the boiler is operating at a level of at least 75 percent of rated capacity; records of boiler cleaning agent incineration shall be kept on file, including dates, amounts, origin of material, cleaning agent boiler feed rate, and operating capacity of the boiler during incineration, including steam flow.	Minn. R. 7007.0800, subp. 2														
C. TESTING REQUIREMENTS	hdr														
Performance Test: due before 06/03/2008 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1														

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

<p>Boiler Alternative Operating Conditions for Performance Testing:</p> <p>Alternative Operating Conditions during testing are defined as 90 percent to 100 percent of the boiler's maximum normal (continuous) operating load or the maximum permitted operating rate, whichever is lower. The basis for this number must be included in the test plan. If testing is conducted at the alternative operating condition established, an operating limit will not be established as a result of performance testing.</p> <p>In no case will the new operating rate limit be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>Boiler Operating Conditions Not Meeting the Alternative Operating Conditions During Performance Testing:</p> <p>If performance testing is not conducted at or above the established alternative operating condition, then the boiler operating rate will be limited on an 8-hour block average based on the following:</p> <p>(1) If the results of the performance test are greater than 90 percent of any applicable emission limit for which emissions are measured, then the boiler operation will be limited to the tested operating rate.</p> <p>(2) If results are less than or equal to 90 percent of all applicable emission limits for which emissions are measured, boiler operation will be limited to 110 percent of the tested operating rate.</p> <p>In no case will the new operating rate limit be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>STET (Short Term Emergency and Testing) Operating Hours Limit:</p> <p>The boiler may operate up to 40 hours per year to demonstrate the Uniform Rating of Generating Equipment (URGE) capacity and to meet emergency energy supply needs. Documentation of all STET operation shall be maintained. The boiler must meet emission limits during STET operation.</p>	Minn. R. 7007.0800, subp. 2
<p>STET Operation Definition that applies to Boilers that Meet or do Not Meet the Alternative Operating Conditions for Performance Testing:</p> <p>If performance test results measure emissions at 90 percent or less of any applicable emission limits for any tested pollutant, STET operation is defined as operation beyond 110 percent of the average operating rate achieved during that performance test.</p> <p>If performance test results measure emissions at greater than 90 percent of any applicable emission limit for any tested pollutant, STET operation is defined as operation beyond 100 percent of the average operating rate achieved during that performance test.</p> <p>In no case will STET operation be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
<p>The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.</p>	Minn. R. 7017.2020, subp. 4
D. RECORD KEEPING	hdr
<p>Keep on site at the source each of the following documents for a period of five (5) years from the date the document was created: The certificate of representation, all emissions monitoring information, copies of all reports, compliance certifications, and other submissions or records made under the Acid Rain Program, copies of all documents used to complete an acid rain permit application.</p>	40 CFR Section 72.9(f)(l)
E. REPORTING	hdr
<p>Each submission under the Acid Rain Program shall be submitted, signed, and certified by the designated representative for all sources on behalf of which the submission is made in accordance with 40 CFR Section 72.21.</p>	40 CFR Section 72.21
<p>If the unit has excess emissions, the designated representative shall submit a proposed offset plan in accordance with 40 CFR Section 72.9(e).</p>	40 CFR Section 72.9(e)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 005 Railcar Unloading**Associated Items:** CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 002 Railcar unload

SV 003 Railcar unload

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Railcar Unloading: When the amount of coal unloaded by rail is 200,000 tons per year or greater, unload railcars only within a permanent building or structure. If exhaust gases from such building or structure exceed 20 percent opacity, then implement one of the following further controls: install an exhaust air system and control exhaust gases so that particulate matter emissions do not exceed 0.020 gr/dscf; or control exhaust gases using dust suppression methods so that particulate emissions do not exhibit Opacity: greater than or equal to 20 percent opacity	Minn. R. 7011.1105 (H)
Check for visible emissions (during daylight hours) from SV002 and SV003 (for CE009) once each calendar week during every week of operation.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
Particulate Matter < 10 micron: less than or equal to 2.0 lbs/hour for each stack vent (SV 002 and SV 003).	Minn. R. 7009.0020

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 006 #5 Feeder Area (Weightometer)**Associated Items:** CE 010 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 004 #5 feeder area (weightometer)

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
If exhaust gases from any enclosed coal handling facility exceed 20 percent opacity, then the owner or operator of such facility shall select and implement one of the following further controls: (1) install exhaust air system and control exhaust gases so that particulate emissions in such gases do not exceed 0.020 gr/dscf; (2) control exhaust gases using dust suppression methods so that particulate emissions do not exhibit greater than 20 percent opacity.  Also note PM10 limit based on Minn. R. 7009.0020.	Minn. R. 7011.1105(G)
Particulate Matter < 10 micron: less than or equal to 1.8 lbs/hour	Minn. R. 7009.0020
Operating Hours: less than or equal to 12 hours/day	Minn. R. 7009.0020
Check for visible emissions (during daylight hours) from the control equipment (CE010) once each calendar week during every week of operation.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Record the operating start and stop times during every day of coal throughput operation.	Minn. R. 7007.0800, subp. 5
Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 007 Bunker Room Conveying**Associated Items:** CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 005 bunker room conveying

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
If exhaust gases from any enclosed coal handling facility exceed 20 percent opacity, then the owner or operator of such facility shall select and implement one of the following further controls: (1) install exhaust air system and control exhaust gases so that particulate emissions in such gases do not exceed 0.020 gr/dscf; (2) control exhaust gases using dust suppression methods so that particulate emissions do not exhibit greater than 20 percent opacity.	Minn. R. 7011.1105 (G)
Also note PM10 limit based on Minn. R. 7009.0020.	
Particulate Matter < 10 micron: less than or equal to 2.7 lbs/hour	Minn. R. 7009.0020
Check for visible emissions (during daylight hours) from the control equipment (CE011) once each calendar week during every week of operation.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 008 Fly Ash Transfer System**Associated Items:** CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 006 fly ash transfer system

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Particulate Matter < 10 micron: less than or equal to 0.02 grains/dry standard cubic foot and 0.4 lbs/hr.	Minn. R. 7009.0020 and meets requirement of Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Check for visible emissions (during daylight hours) from the control equipment (CE012) once each calendar week during every week of operation.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken.	40 CFR Section 64.9; Minn. R. 7007.0800, subp. 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 009 Fly Ash Silo**Associated Items:** CE 013 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

GP 005 Existing Facility Requirements During And After Combustion Turbine Shakedown

SV 007 fly ash silo

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Particulate Matter < 10 micron: less than or equal to 0.02 grains/dry standard cubic foot and 0.2 lbs/hr.	Minn. R. 7009.0020 and meets requirement of Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Check for visible emissions (during daylight hours) from the control equipment (CE012) once each calendar week during every week of operation.	Minn. R. 7007.0800, subp. 4
Corrective Actions: If visible emissions (VEs) are observed, determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Recordkeeping: Record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, also record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 012 Temporary Emergency Engine**Associated Items:** SV 010 Temporary Emergency Engine

What to do	Why to do it
See GP 005 for requirements related to shutdown of this subject item. The following requirements become obsolete upon shutdown of the existing facility as required in GP 005 of Table A of this permit.	hdr
Operating Hours: less than or equal to 7575 hours/year using 12-month Rolling Sum calculated monthly. During the first 11 months of operation, the cumulative operating hours are limited as follows: Month 1: 730 hours; Month 2: 1460 hours; Month 3: 2190 hours; Month 4: 2920 hours; Month 5: 3650 hours; Month 6: 4380 hours; Month 7: 5110 hours; Month 8: 5840 hours; Month 9: 6570 hours; Month 10: 7300 hours; Month 11: 7475 hours.	Title I Condition: Previously permitted limit to avoid classification of past modification as a major modification under 40 CFR Section 52.21; Minn. R. 7007.3000
Capacity: less than or equal to 300 horsepower	Minn. R. 7007.0800, subp. 2
Particulate Matter < 10 micron: less than or equal to 0.66 lbs/hour	Minn. R. 7009.0020
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Content of Fuel: less than or equal to 0.5 percent by weight	Minn. R. 7007.0800, subp. 2; meets requirements of Minn. R. 7011.2300, subp. 2
Calculate and record operating hours for each month and on a 12-month rolling sum basis. Complete the calculation and recording by the end of each month, for the previous month and for the previous 12-month period.	Title I Condition: Recordkeeping to avoid classification of a past modification as a major modification under 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 017 Auxiliary Boiler**Associated Items:** SV 013 Auxiliary Boiler

What to do	Why to do it
A. LIMITS AND OPERATING REQUIREMENTS	hdr
Carbon Monoxide: less than or equal to 0.08 lbs/million Btu heat input using 3-hour Average	Title I Condition: 40 CFR Section 52.21 BACT Limit; Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.005 lbs/million Btu heat input using 3-hour Average	Title I Condition: 40 CFR Section 52.21 BACT Limit; Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 400 parts per million by volume on a dry basis at 3% oxygen, as measured by the average of 3 performance test runs. This standard applies at all times except during startup, shutdown, and malfunction.	40 CFR Sections 63.7500(a)(1) and 63.7505(a), and Table 1 of part 63, subpart DDDDD
Permitted Fuel: Pipeline natural gas only	Minn. R. 7007.0800, subp. 2
Startup, Shutdown, and Malfunction Plan (SSMP): Develop and implement a written SSMP according to the provisions in Section 63.6(e)(3), no later than the date of initial startup of EU 017.	40 CFR Section 63.7505(e)
B. MONITORING	hdr
Site-Specific Monitoring Plan: The Permittee shall develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of section 63.7505 for CO emissions.	40 CFR Section 63.7505(d)
C. RECORDKEEPING AND REPORTING	hdr
Fuel Usage Recordkeeping: Record and maintain records of the amounts fuel combusted on a monthly basis. These records may be in the form of fuel bills or meter readings.	40 CFR Section 60.13(i) and February 20, 1992, EPA memorandum to meet the requirements of 40 CFR Section 60.48c(g); Minn. R. 7011.0570
Immediate Startup, Shutdown, and Malfunction Report: Any time an action taken by the Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures specified in the SSMP and EU 017 exceeds an applicable emission limitation, the Permittee shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. Refer to 40 CFR Section 63.10(d)(5)(ii) for additional information regarding the requirements of this report.	40 CFR Section 63.10(d)(5)(ii)
D. PERFORMANCE TESTING	hdr
See the 'Performance Test Notifications and Submittals' requirement in the Total Facility section of Table A of this permit for additional testing-related requirements.	
Initial Performance Test: due 180 days after Initial Startup. Testing shall measure CO emissions according to Table 5 in part 63, subpart DDDDD.	Title I Condition: 40 CFR Section 52.21 BACT Limit; 40 CFR Sections 63.7(a)(2), 63.7510(g), and 63.7520
Performance Test: due before end of each calendar year following Initial Performance Test to measure CO emissions. Annual performance tests shall be conducted 10 to 12 months after the previous performance test	40 CFR Section 63.7515(a) and (e)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

**Subject Item:** EU 018 Diesel Fire Pump**Associated Items:** SV 014 Diesel Fire Pump

What to do	Why to do it
Carbon Monoxide: less than or equal to 0.0067 lb/hp-hr	Title I Condition: 40 CFR Section 52.21(j) BACT limit; Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.0025 lb/hp-hr	Title I Condition: 40 CFR Section 52.21(j) BACT limit; Minn. R. 7007.3000
Operating Hours: less than or equal to 300 hours/year using 12-month Rolling Sum calculated by the last day of each month. During the initial 11 months after EU 018 startup, the applicable limit shall be a cumulative 25 hours per month limit (i.e, EU 018 startup is during December 2007, limit through December 2007 is 25 hours, limit through January 2008 is 50 hours, etc.).	Title I Condition: 40 CFR Section 52.21(j) BACT limit; Minn. R. 7007.3000
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 temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Permitted Fuel: Diesel fuel only with a sulfur content not to exceed 0.5% by weight.	Minn. R. 7007.0800, subp. 2
Recordkeeping - Monthly: by the last day of each month, the Permittee shall calculate and record the total EU 018 operating hours for the previous month, and the previous 12-month period.	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT limit; Minn. R. 7007.3000
Fuel Supplier Receipts: Keep on-site fuel receipts for each fuel shipment. Each receipt shall specify the type of fuel oil delivered.	Minn. R. 7007.0800, subp. 2

## TABLE B: SUBMITTALS

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

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.

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 any application for a permit or permit amendment to:

AQ Permit Technical Advisor  
Industrial Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

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

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

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

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

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

**TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 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
Monitoring Plan	due 60 days before Initial Performance Test Evaluation of the CO continuous monitoring system required by 40 CFR Section 63.7505(d).	EU017
Notification of compliance status	due 60 days after Initial Performance Test for measuring CO emissions. The notification shall include all items described in Sections 63.7545(e)(1) through 63.7545(e)(9).	EU017
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup for each emissions unit. For EU 017, the notification shall also include the design heat input capacity and identification of the fuels to be combusted.	EU013, EU014, EU015, EU016, EU017
Notification of the Date Construction Began	due 30 days after Start Of Construction of each emissions unit.	EU013, EU014, EU015, EU016, EU017
Notification	<p>due 15 days after Startup of turbine post-combustion turbine shakedown operation. This notification is due 15 days after commencing commercial dispatch of each combustion turbine, or 195 days after initial startup of each combustion turbine, whichever is earlier.</p> <p>This POST-COMBUSTION TURBINE SHAKEDOWN OPERATION NOTIFICATION is required for each combustion turbine.</p> <p>This notification shall also specify the existing coal-fired boiler facility shutdown date. (This is the shutdown required by the GP 005 'Existing Facility Shutdown' requirement in Table A of this permit.)</p>	EU013, EU014
Notification	due 90 days after 08/12/2005 . This notification shall specify the final combustion turbine selection and shall be made regardless if the Mitsubishi 501F combustion turbine is selected. The notification shall include the manufacturer and model number of the selected turbine, and appropriate documentation of the emission rates and stack parameters if the Mitsubishi 501F is not selected. For additional requirements for this notification, see the two-part Notification requirement on page A-4 in the "H. REPORTING" section of the Total Facility subject item in Table A of this permit.	Total Facility
Performance Test Notification (written)	due 30 days before Performance Test for measuring CO. If the Permittee is unable to conduct the performance test on the date specified in the notification due to unforeseeable circumstances beyond their control, the Permittee must notify the Administrator as soon as practicable and without delay prior to the scheduled performance test date and specify the date when the performance test is rescheduled.	EU017

**TABLE B: RECURRENT SUBMITTALS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

What to send	When to send	Portion of Facility Affected
Acid Rain Program Electronically Submitted Quarterly Report	due 30 days after end of each calendar quarter starting 01/01/96	SV001
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Initial Startup of the Monitor (Submit Deviations Reporting Form DRF-1 as amended). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions. This requirement applies to the NOx CEMS and CO CEMS.	SV011, SV012
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 07/20/1998 (Submit Deviations Reporting Form DRF-1 as amended). The EER shall indicate all periods of exceedances of the limit for Opacity and SO2 including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	SV001
Compliance Status Report	due 30 days after end of each calendar half-year following permit issuance . This is the Compliance Report required by 40 CFR Section 63.7550. The report shall contain all appropriate requirements from sections 63.7550(c) and (d) and shall be submitted with the Total Facility Semiannual Deviations Report.	EU017
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 07/20/1998 . 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 Report (Acid Rain Program)	due 60 days after end of each calendar year starting 07/20/1998 . The designated representative shall submit an annual compliance certification report for the unit in accordance with 40 CFR Section 72.90(a). The report shall include all information required by 40 CFR Section 72.90(b) and (c).	EU001
Compliance Certification Report (Acid Rain Program)	due 60 days after end of each calendar year starting 07/20/1998 . The designated representative shall submit an annual compliance certification report for the unit in accordance with 40 CFR Section 72.90(a). The report shall include all information required by 40 CFR Section 72.90(b) and (c).	EU002
Compliance Certification Report (Acid Rain Program)	due 60 days after end of each calendar year starting 07/20/1998 . The designated representative shall submit an annual compliance certification report for the unit in accordance with 40 CFR Section 72.90(a). The report shall include all information required by 40 CFR Section 72.90(b) and (c).	EU003
Compliance Certification Report (Acid Rain Program)	due 60 days after end of each calendar year starting 07/20/1998 . The designated representative shall submit an annual compliance certification report for the unit in accordance with 40 CFR Section 72.90(a). The report shall include all information required by 40 CFR Section 72.90(b) and (c).	EU004



**TABLE B: RECURRENT SUBMITTALS**

01/11/06

Facility Name: NSP dba Xcel Energy - High Bridge

Permit Number: 12300012 - 005

Compliance Certification	due 30 days after end of each calendar year starting 07/20/1998 (for the previous calendar year). Submitt the certification on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This certification covers all deviations experienced during the calendar year.	Total Facility
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## APPENDIX MATERIAL

Facility Name: NSP d.b.a. Xcel Energy - High Bridge

Permit Number: 12300012-005

# Acid Rain Phase II NO<sub>x</sub> Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is:

☒

New

☐

Revised

<b>Step 1</b> Indicate plant name, State, and ORIS code from NADB, if applicable	High Bridge  Plant Name	MN  State	1912  ORIS Code
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**Step 2** Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: “CB” for cell burner, “CY” for cyclone, “DBW” for dry bottom wall-fired, “T” for tangentially fired, “V” for vertically fired, and “WB” for wet bottom. Indicate the compliance option selected for each unit

ID# 3	ID# 4	ID# 5	ID# 6	ID#	ID#
DBW	DBW	DBW	DBW		
Type	Type	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for <u>Phase I</u> dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for <u>Phase I</u> tangentially fired boilers)						
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)						
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for <u>Phase II</u> dry bottom wall-fired boilers)						
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for <u>Phase II</u> tangentially fired boilers)						

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(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						
(j) NOx Averaging Plan (include NOx Averaging form)	X	X	X	X		
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NOx Averaging (check the NOx Averaging Plan box and include NOx Averaging form)	X	X	X	X		
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)						
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing						
(p) Repowering extension plan approved or under review						

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## Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

### Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO<sub>x</sub> as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO<sub>x</sub> for Phase II units with Group 1 boilers under 40 CFR 76.7.

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# Acid Rain Phase II NO<sub>x</sub> Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is:      New      ☐      ☒ Revised

## Step 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit	
Allen S. King	MN	1	0.86	0.86	1.05	34,000,000
Black Dog	MN	1	0.40	0.40	0.81	2,094,000
Black Dog	MN	3	0.46	0.46	0.81	5,685,000
Black Dog	MN	4	0.46	0.46	0.81	11,036,000
High Bridge	MN	3	0.50	0.50	0.60	1,771,500
High Bridge	MN	4	0.50	0.50	0.60	1,771,500
High Bridge	MN	5	0.50	0.50	0.60	5,037,000
High Bridge	MN	6	0.50	0.50	0.60	10,313,000
Minnesota Valley	MN	4	0.46	0.46	0.47	1,189,000
Riverside	MN	6	0.46	0.46	0.85	4,324,500
Riverside	MN	7	0.46	0.46	0.85	4,324,500
Riverside	MN	8	0.86	0.86	0.82	10,821,000
Sherburne County	MN	1	0.45	0.45	0.28	42,255,000
Sherburne County	MN	2	0.45	0.45	0.28	42,255,000
Sherburne County	MN	3	0.46	0.46	0.35	34,912,000

## Step 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

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Btu-weighted annual emission rate  
averaged over the units if they are  
operated in accordance with the  
proposed averaging plan

Btu-weighted annual average  
emission rate for same units  
operated in compliance with  
40 CFR 76.5, 76.6, or 76.7

0.54

0.54

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

≤

$$\frac{\sum_{i=1}^n [R_{li} \times HI_i]}{\sum_{i=1}^n HI_i}$$

Where,

$R_{Li}$  = Alternative contemporaneous annual emission limitation  
unit i, in lb/mmBtu, as specified in column (b) of Step 1:

$R_{li}$  = Applicable emission limitation for unit i, in lb/mmBtu, as  
specified in column (a) of Step 1:

$HI_i$  = Annual heat input for unit i, in mmBtu, as specified in  
column (c) of Step 1:

$n$  = Number of units in the averaging plan

☒ This plan is effective for calendar year 2000 through calendar year 2004  
unless notification to terminate the plan is given.

☐ Treat this plan as ☐ identical plans, each effective for one calendar year for the following  
calendar  
years       ,       ,       ,       , and        unless notification to terminate one or more of these plans is  
given.

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## Special Provisions

### Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO<sub>x</sub> under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and

(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,

(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or

(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

### Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

### Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

# Acid Rain Phase II Permit Application

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For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is New ☐ Revised ☒

High Bridge	MN	1912
Plant Name	State	ORIS Code

Compliance  
Plan

a	b	c	d
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
3	Yes		
4	Yes		
5	Yes		
6	Yes		
7	Yes	May 2008	August 2008
8	Yes	May 2008	August 2008
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Standard Requirements

Permit Requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
  - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  - (ii) Have an Acid Rain Permit.

Monitoring Requirements.

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- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

#### Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each affected unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

#### Excess Emissions Requirements.

- (1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

#### Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
  - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

#### Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c)

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of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.

(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

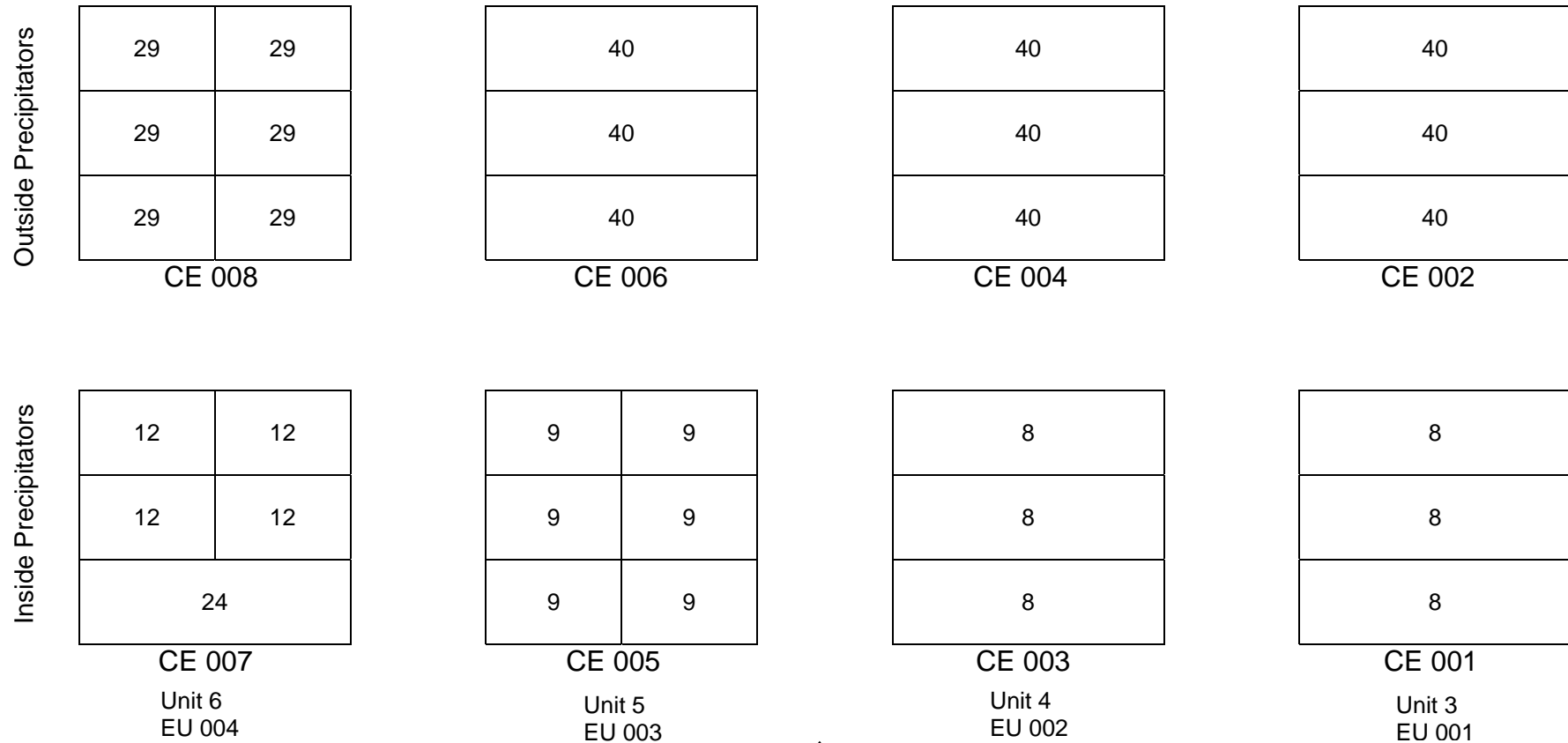
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Xcel Energy - High Bridge Generating Plant Boilers and Electrostatic Precipitators  
 ESP Field Specific Collection Area  
 Data in 1000 square feet of collection area



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### Insignificant Activities Required To Be Listed

<b>Minn. R. 7007.1300</b>	<b>Acitivity</b>	<b>Applicable performance standard</b>
subp. 3.A	NG-fired space heaters	Minn. R. 7011.0515
subp. 3.G	Water Laboratory	
subp. 3.H(4)	Welding Equipment	Minn. R. 7011.0715
subp. 3.I	Metal machining equipment	Minn. R. 7011.0715
subp. 3.I	Solvent use (<1 tpy)	
subp. 3.I	Wet bottom ash dumping	Minn. R. 7011.0150
subp. 3.I	Dewatered bottom ash loadout	Minn. R. 7011.0150
subp. 3.I	Flyash loadout to sealed tanker trucks	Minn. R. 7011.0715
subp. 3.I	Breaker building rejects chute	Minn. R. 7011.0150
subp. 3.I	Magnetic separator chute	Minn. R. 7011.0715
subp. 3.I	Fugitive particulate matter emissions from employee vehicle traffic on paved roads	Minn. R. 7011.0150
subp. 3.K	Spray paint system for facility upkeep	Minn. R. 7011.0715
subp. 4	Sandblast room	Minn. R. 7011.0715
subp. 4	Temporary/emergency heating equipment	Minn. R. 7011.0515
subp. 4	Temporary internal combustion engines burning distillate oil, gasoline, or natural gas for plant maintenance	Minn. R. 7011.2300
subp. 4	VOC fugitive emissions from distillate oil pumps, valves, and flanges	
subp. 4	400,000 gallons distillate oil storage	Minn. R. 7011.1505
subp. 4	Infrequent off-spec wet flyash loadout into open trucks	Minn. R. 7011.0150
subp. 4	Open feeder belt on coal conveying system	Minn. R. 7011.0150
subp. 4	Electric demineralizer vacuum pump vent	Minn. R. 7011.0715

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