

**AIR EMISSION PERMIT NO. 00900021- 002  
(ADMINISTRATIVE AMENDMENT)**

**IS ISSUED TO**

**NORTHERN STATES POWER CO - XCEL ENERGY**

NSP - Granite City  
680 Highway 10 North  
St. Cloud, Benton County, MN 56304-0238

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

Permit Type	Application Date
Total Facility Operating Permit	September 15, 1995

This permit amends Air Emissions Permit No. 00900021-001, and authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

<b>Permit Type:</b> Federal; Part 70	<b>Amendment Type:</b> Administrative
<b>Issue Date:</b> 11/7/2000	<b>Issue Date:</b> June 25, 2001

**Expiration:** 11/01/2005

All Title I Conditions do not expire.

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Richard Sandberg, Manager  
Major Facilities Section  
Metro District

for Karen A. Studders  
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 generates electricity mainly during periods of peak electrical demand. It is composed of four identical combustion turbine generators capable of firing either natural gas or distillate fuel oil and a small emergency diesel generator (an insignificant activity). Also, two one-million gallon fixed roof storage tanks are located at the facility. In the past, one of the tanks was leased for gasoline storage, however, the Permittee no longer engages in this activity and the storage of gasoline is prohibited by this permit. The other tank stores distillate fuel oil. The storage of distillate fuel oil is also an insignificant activity.

**AMENDMENT DESCRIPTION:**

This permit amendment is an MPCA initiated administrative amendment. It implements the current MPCA air dispersion modeling policy and imposes additional requirements on the Permittee.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

**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>
Gasoline Storage: The Permittee shall not store or allow the storage of gasoline at the facility, except as provided by Minn. R. 7007.1300, subp. 2(E)(4).	Minn. R. 7007.0800, subp. 2
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A or B.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
General Performance Test (PT) Requirements:  Performance Tests are due as outlined in Tables A and B of this Permit. See Table B for additional testing requirements.  PT Notifications (written): due 30 days before each Performance Test PT Plan: due 30 days before each Performance Test PT Pre-test Meeting: due 7 days before each Performance Test PT Report: due 45 days after each Performance Test PT Report-Microfiche: due 105 days after each Performance Test	Minn. R. 7017.2030, subp. 1-4 and Minn. R. 7017.2035, subp. 1 and 2
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
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3.  At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2.  At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
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)
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
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)
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)
Record keeping: Retain all records at the stationary source or other Northern States Power site, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
Emissions Inventory Report: due 91 days after end of each calendar year (April 1) following 11/07/2000. To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3010
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

**Subject Item:** GP 001 Combustion Turbines**Associated Items:** EU 001 Turbine Engine 1

EU 002 Turbine Engine 2

EU 003 Turbine Engine 3

EU 004 Turbine Engine 4

What to do	Why to do it
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained, for each emission unit in GP 001.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input (equivalent to a fuel oil sulfur content of 0.49 percent by weight) for each emission unit in GP 001.	Minn. R. 7011.2300, subp. 2
Sulfur Content of Fuel: less than or equal to 0.49 percent by weight for distillate fuel oil.	Minn. R. 7007.0800, subp. 2
Permitted Fuels: Pipeline natural gas and distillate fuel oil only.	Minn. R. 7007.0800, subp. 2
Distillate Fuel Oil Supplier Certification: At the time of the first fuel oil delivery after the effective date of this permit, the Permittee shall obtain a single certification from the fuel oil supplier guaranteeing a maximum sulfur content in all fuel oil deliveries thereafter. The single certification shall also state that the supplier will notify the Permittee in writing on the date of delivery of fuel oil with a sulfur content exceeding the guaranteed maximum, that the fuel oil sulfur content exceeds the guaranteed maximum value.	Minn. R. 7007.0800, subp. 4 and 5
Initial Performance Test: due 365 days after 11/07/2000 to measure opacity of each emission unit in GP 001 while combusting distillate fuel oil.	Minn. R. 7017.2020, subp. 1
For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility".	

## TABLE B: SUBMITTALS

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

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:

Permit Technical Advisor  
Permit Section  
Air Quality 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:

Supervisor  
Compliance Determination Unit  
Air Quality 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**

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

<b>What to send</b>	<b>When to send</b>	<b>Portion of Facility Affected</b>
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Information	due 1,096 days after 11/07/2000. Submit modeling data as specified in MPCA guidance for Modeling Information Requests (for SO <sub>2</sub> , NO <sub>x</sub> , and PM <sub>10</sub> ). This modeling information is for data collection purposes, no modeling analysis is required at this time. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility



**TABLE B: RECURRENT SUBMITTALS**

06/25/01

Facility Name: NSP - Granite City

Permit Number: 00900021 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 11/07/2000. 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.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 11/07/2000 (for the previous calendar year). The Certification shall be submitted on a form approved by the Commissioner, both to the Commissioner, and to the U.S. EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**NSP – Granite City**  
**AIR EMISSION PERMIT NO. 00900021-002**

This technical support document is for all the interested parties of the permit. The purpose of this document is to set forth the legal and factual basis for the permit conditions, including references to the applicable statutory or regulatory provisions.

**1. General Information**

Owner and Operator Address and Phone Number (list both if different)	Facility Address (SIC Code: 4911)
Northern States Power – Xcel Energy 414 Nicollet Mall Minneapolis, Minnesota 55401-1993 (612) 337-2287	680 US Highway 10 North St. Cloud Benton County Minnesota

1.2. Description of the Facility

This facility generates electricity mainly during periods of peak electrical demand. It is composed of four identical combustion turbine generators capable of firing both natural gas or distillate fuel oil, and a small emergency diesel generator (an insignificant activity). Also, two one-million gallon fixed roof storage tanks are located at the facility. In the past, one of the tanks was leased for gasoline storage, however, the permittee no longer engages in this activity and the Title V permit prohibits the storage of gasoline. The other tank stores distillate fuel oil. The storage of distillate fuel oil is also an insignificant activity.

1.3. Description of the Activities Allowed By This Permit Action

This permit amendment is an MPCA initiated administrative amendment. It implements the 2001 MPCA air dispersion modeling policy and imposes additional requirements on the Permittee. This qualifies as an Administrative Amendment under Minn. R. 7007.1400, subp. 1(C).

1.4. Facility Emissions:

There are no changes in emissions associated with this permit amendment.

**2. Conclusion**

The MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 00900021-002 and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Permit Engineer: Peggy L. Bartz  
Attachment: CD-01 Forms