

**AIR EMISSION PERMIT NO. 17100019- 002
IS ISSUED TO**

Northern States Power Company

NSP - Monticello Nuclear Plant
2807 West Highway 75
Monticello, Wright County, MN 55362

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 |
|---------------------------------|-------------------------|
| Total Facility Operating Permit | September 15, 1995 |
| Administrative Amendment | NA |

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

Permit Type: Administrative Amendment

Issue Date: November 14, 2000

Expiration: August 16, 2005

All Title I Conditions do not expire.

Rodney E. Massey, P.E.
Director

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. Certain requirements which have been determined not to apply are listed in Table A of this permit.

FACILITY DESCRIPTION

This air emission facility is part of the Northern States Power Monticello Nuclear Generating Plant. The air emission facility is composed of an oil and gas-fired heating boiler, four emergency diesel generators, and one emergency fire pump diesel engine.

This Administrative Amendment clarifies the permit term of EU 007/EU 008 temporary diesel-fired engines, as found in Table A GP 001.

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 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**

| What to do | Why to do it |
|---|---|
| Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C. | Minn. R. ch. 7017 |
| 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 the 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 |
| 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 |

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 002

| | |
|--|---|
| 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 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) |
| 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

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 002

Subject Item: GP 001 Diesel Engines

Associated Items: EU 002 Diesel Generator 11
 EU 003 Diesel Generator 12
 EU 004 Security Diesel Generator
 EU 005 Fire Pump Diesel Engine
 EU 006 Diesel Generator 13
 EU 007 Temporary Engine > 600 Hp
 EU 008 Temporary Engine < 600 Hp

| What to do | Why to do it |
|---|--|
| LIMITS AND OPERATING REQUIREMENTS - ALL GP 001 EMISSION UNITS | hdr |
| Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input (equivalent to a distillate fuel oil sulfur content of 0.49% 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 for each emission unit in GP 001. | Minn. R. 7007.0800, subp. 2 |
| 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 |
| Permitted Fuels: Distillate fuel oil only for each emission unit in GP 001. | Minn. R. 7007.0800, subp. 2 |
| EU 007 and EU 008 Temporary Diesel Engines: The Permittee may operate temporary diesel fuel-fired engines at the facility providing the engines meet all applicable emission limits and fuel requirements in this subject item. A temporary engine is any engine that is not located and/or operated at the facility for more than twelve consecutive months, and does not include emission units 002, 003, 004, 005, or 006. Any temporary engine that is operating in place of EU 006 is subject to the operating hours recordkeeping requirements of EU 006. A temporary engine shall not operate at the same time as the engine it is replacing, except for up to eight hours during startup and shutdown transitions. Temporary engines must have potential emission rates in pounds per hour for all criteria pollutants that are less than permit emission limits and the potential emission rates of the permanent engines they are replacing. | Minn. R. 7007.0800, subp. 2 |
| Fuel Supplier Certification: The Permittee shall obtain a single certification from the fuel supplier that guarantees 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 |
| PERFORMANCE TESTING REQUIREMENTS - EU 002, EU 003, and EU 006. | hdr |
| Initial Performance Test: due 180 days after Permit Issuance to measure opacity of EU 002, 003, and 006. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility". | Minn. R. 7017.2020, subp. 1 |
| REQUIREMENTS APPLICABLE ONLY TO EU 006 (Diesel Generator 13) | hdr |
| Operating Hours: less than or equal to 1250 hours/year using 12-month Rolling Sum | Title I Condition: To avoid major modification status for NOx according to 40 CFR Section 52.21 |
| Nitrogen Oxides: less than or equal to 4.0 lbs/million Btu heat input | Title I Condition: To avoid major modification status for NOx according to 40 CFR Section 52.21 |
| Recordkeeping - EU 006 Operating Hours: By the last day of each month, the Permittee shall record the number of hours that EU 006 was operated during the previous month and during the previous 12-month period. | Title I Condition: Recordkeeping to avoid major modification status for NOx according to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 5 |
| Performance Test: due before end of each 60 months starting 12/31/2000 to measure EU 006 NOx emissions. The first test is due by December 31, 2000. For additional applicable performance test requirements, see "General Performance Test Requirements" in Table A, Subject Item "Total Facility". | Title I Condition: Performance testing to avoid major modification status for NOx according to 40 CFR Section 52.21; Minn. R. 7017.2020, subp. 1 |

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 002

Subject Item: EU 001 Boiler**Associated Items:** SV 001

| What to do | Why to do it |
|--|--|
| Sulfur Content of Fuel: less than or equal to 0.5 percent by weight for distillate fuel oil. | 40 CFR Section 60.42c(d) |
| Operating Hours: less than or equal to 5113 hours/year using 12-month Rolling Sum when combusting distillate fuel oil. | Title I Condition: To avoid major modification status for SO ₂ according to 40 CFR Section 52.21 |
| Recordkeeping - Distillate Fuel Oil Operating Hours: By the last day of each month, the Permittee shall record the number of hours that distillate fuel oil was combusted in EU 001 during the previous month and during the previous 12-month period. | Title I Condition: Recordkeeping to avoid major modification status for SO ₂ according to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 5 |
| Recordkeeping - Quantity of Fuel Combusted in EU 001: Once each month the Permittee shall record the quantity of each fuel combusted in EU 001 during the previous calendar month. Records may be in the form of meter readings or fuel bills. | 40 CFR Section 60.48c(g) and February 20, 1992, EPA memorandum |
| <p>Fuel Supplier Certification: Obtain a certification from the fuel oil supplier for each fuel oil delivery, stating the following information:</p> <p>1) The name of the oil supplier; 2) A statement from the supplier that the oil meets the definition of distillate oil in 40 CFR Section 60.41c.</p> <p>In lieu of a certification for each delivery, the Permittee may elect to obtain a single certification from the fuel supplier guaranteeing a maximum sulfur content in all fuel oil deliveries thereafter, and containing the information required in items 1 and 2 above. 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.</p> | Minn. R. 7007.0800, subp. 2; meets requirements of 40 CFR Section 60.48c(f) |
| Permitted Fuels: Distillate fuel oil and natural gas only. | Minn. R. 7007.0800, subp. 2 |
| A temporary boiler may be brought onsite for a period of up to one year, for the purpose of providing steam, heat, or electric power in place of EU 001, when EU 001 is out of operation. The temporary boiler may not be operated at the same time as EU 001 except for up to eight hours during start-up and shutdown transition periods. The temporary boiler must have potential emission rates in lbs/hour for all criteria pollutants that are less than the permit emission limits and potential emission rates of EU 001. All fuel usage by any temporary boiler shall be included in the fuel usage recordkeeping required under this subject item. | Minn. R. 7007.0800, subp. 2 |

TABLE B: SUBMITTALS

11/14/00

Facility Name: NSP - Monticello Nucle
Permit Number: 17100019 - 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

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 002

| What to send | When to send | Portion of Facility Affected |
|---|---|-------------------------------------|
| Application for Permit Reissuance | due 180 days before expiration of Existing Permit | Total Facility |
| Computer Dispersion Modeling Protocol | due 1,096 days after Permit Issuance for SO ₂ and NO _x emissions. This protocol will describe the proposed modeling methodology and input data, in accordance with all requirements of 40 CFR pt. 51, App. W. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. | Total Facility |
| Computer Dispersion Modeling Results | due 1,462 days after Permit Issuance for SO ₂ and NO _x emissions. The results shall be submitted after the MPCA has reviewed and approved the modeling protocol. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. | Total Facility |
| Performance Test Report - Microfiche Copy | due 105 days after Initial Performance Test to measure opacity of EU 002, 003, and 006. | GP001 |
| Performance Test Report | due 45 days after Initial Performance Test to measure opacity of EU 002, 003, and 006. | GP001 |

TABLE B: RECURRENT SUBMITTALS

11/14/00

Facility Name: NSP - Monticello Nucle

Permit Number: 17100019 - 002

| What to send | When to send | Portion of Facility Affected |
|---|--|------------------------------|
| Quarterly Report | due 30 days after end of each calendar quarter following Permit Issuance. The report shall indicate the calendar dates covered in the report, and contain a copy of the fuel supplier certification for each fuel delivery received during the quarter and a statement signed by the Permittee that the certifications submitted represent all of the fuel combusted during the calendar quarter. | EU001 |
| Semiannual Deviations Report | due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. | Total Facility |
| Compliance Certification | due 31 days after end of each calendar year following Permit Issuance (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. The EPA copy shall be sent to: Mr. George Czerniak, Chief, Air Enforcement and Compliance Assurance Branch, Air and Radiation Division, EPA Region V, 77 West Jackson Boulevard, Chicago, Illinois 60604. | Total Facility |
| Emissions Inventory Report | due 91 days after end of each calendar year following Permit Issuance (April 1). To be submitted on a form approved by the Commissioner. | Total Facility |
| Performance Test Report - Microfiche Copy | due 105 days after end of each calendar year following Initial Performance Test to measure EU 006 NOx emissions (105 days after each Performance test). | GP001 |
| Performance Test Report | due 45 days after end of each calendar year following Initial Performance Test to measure EU 006 NOx emissions (45 days after each Performance Test). | GP001 |

November 10, 2000

Mr. John Chelstrom
Senior Environmental Analyst
Northern States Power Company\Xcel Energy
414 Nicollet Mall
Minneapolis, MN 55401-1993

RE: Air Emission Permit No. 17100019-002, for NSP – Monticello Facility

Dear Mr. Chelstrom:

The enclosed permit amendment, Air Emission Permit No. 17100019-002, authorizes operation of your facility located at 2807 West Highway 75, Monticello, Wright County, Minnesota. The amendment clarifies the GP 001 permit term for the temporary diesel engines, EU 007 and EU 008.

This amendment expires on the original permit (No. 17100019-001) expiration date. Please read through the permit and review its conditions and requirements. Distribute the permit to staff members responsible for ensuring compliance with the conditions and limitations in the permit. If appropriate, post the permit at the facility.

We appreciate your cooperation and compliance with environmental laws. If you have questions about the permit, please contact me at (507) 280-2992.

Sincerely,

Marshall M. Cole
North/South Major Facilities

MMC:jfh

Enclosure

cc: AQ File No. 202W
Brainerd Subdistrict Office