

Draft

AIR EMISSION PERMIT NO. 09100009-004
Total Facility Operating Permit - Reissuance

IS ISSUED TO

Southern Minnesota Municipal Power Agency (SMMMPA)

Fairmont Energy Station
215 West 7th Street
Fairmont, Martin County, MN 56031

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

This permit reissuance supersedes Air Emission Permit No.09100009-003 and authorizes the Permittee to operate and modify the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: Federal; Pt 70/Limits to avoid NSR

Operating Permit Issue Date: <issue date>

Title I Conditions do not expire.

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Stine
Acting Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit Reissuance	November 12, 2010	004
Administrative Amendment	May 26, 2011	004
Major Permit Amendment	September 27, 2011	004

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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:

Fairmont Energy Station is a municipal electric utility with backup/peaking generating units and district steam heating capabilities. Southern Minnesota Municipal Power Agency (SMMPA) owns and operates the facility, which currently has two operational stationary internal combustion engines at a site within the city limits of Fairmont, Minnesota. (In 2011, four boilers that are listed in Air Emission Permit No. 09100009 were decommissioned and removed. Two package boilers listed in Air Emission Permit No. 09100009 were then decommissioned and removed in 2012.)

AMENDMENT DESCRIPTION:

The permit action is a reissuance of a Part 70 permit that incorporates two other permit actions. The permit action authorizes the transfer of facility ownership and operational control of the Fairmont Energy Station (formerly known as the Fairmont Power Plant) from Fairmont Public Utilities Commission to SMMPA.

This permit action also authorizes SMMPA to:

- Change the name of the facility from Fairmont Power Plant to Fairmont Energy Station.
- Install four new 6520 kW natural gas-fired generating units at this facility. The generators will be used for SMMPA peak-shaving and emergency purposes, as well as for operation related to routine maintenance and readiness checks.
- Install an oxidation catalyst on each of the two existing stationary internal combustion engines.
- Decommission and remove six steam boilers from the facility.

After the modifications at the Fairmont Power Plant are complete, the facility will consist of two dual-fired generators and four natural gas-fired generators.

TABLE A: LIMITS AND OTHER REQUIREMENTS

A-1 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

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
OPERATIONAL REQUIREMENTS	hdr
The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subp. 7(A), 7(L), & 7(M); Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.	Minn. R. ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Table A of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in an alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2018; Minn. R. 7017.2030, subps. 1-4, Minn. R. 7017.2035, subps. 1-2

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

05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025, subp. 3
MONITORING REQUIREMENTS	hdr
Monitoring Equipment Calibration: The Permittee shall calibrate all required monitoring equipment at least once every 12 months (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A 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)
RECORDKEEPING	hdr
Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. These records shall be kept for a period of five years from the date the change was made or until permit reissuance, whichever is longer. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-3**

05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-4** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Subject Item: GP 003 Engines No. 1 and No. 2**Associated Items:** EU 005 Engine No. 1

EU 006 Engine No. 2

What to do	Why to do it
NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES	hdr
According to the permit application received on September 27, 2011, emission units EU 005 and EU 006 will be subject to 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) on May 3, 2013. After that date, EU 005 and EU 006 must comply with Subpart ZZZZ.	40 CFR Sections 63.6580 to 63.6675; Tables to Subpart ZZZZ of 40 CFR Part 63; Minn. R. 7011.8150
LIMITS AND OPERATING REQUIREMENTS	hdr
Opacity: less than or equal to 20 percent opacity once operating temperature has been attained. This requirement applies individually to EU 005 and EU 006.	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% by weight). This requirement applies individually to EU 005 and EU 006. This requirement is met by the use of fuel oil with a maximum fuel oil sulfur content of 0.0015% by weight. (That is equivalent to an SO2 emission rate of 0.0015 lb/MMBtu.)	Minn. R. 7011.2300, subp. 2
Heat Input: less than or equal to 110424 million Btu/year of natural gas or fuel oil based on a 12-month rolling sum to be calculated by the 15th day of each month. This requirement applies to the combined heat input to EU 005 and EU 006.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Carbon Dioxide: less than or equal to 174.89 lbs/million Btu heat input when burning distillate fuel oil	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Permitted Fuels: pipeline natural gas and distillate fuel oil only. The distillate fuel oil must contain no more than 15 ppm sulfur (0.0015% sulfur by weight).	Minn. R. 7007.0800, subp. 2
MONITORING AND RECORDKEEPING	hdr
Fuel Supplier Certification: The Permittee shall obtain a certification from the distillate fuel oil supplier specifying the sulfur content in percent by weight for each fuel delivery. The sulfur content shall be less than or equal to 0.0015% by weight for each fuel oil delivery.	Minn. R. 7007.0800, subp. 4 and 5
Fuel Type Recordkeeping: The Permittee shall keep a log of the type of fuel combusted in EU 005 and EU 006. A minimum of one record for each fuel type shall be entered no less frequently than semiannually.	Minn. R. 7007.0800, subp. 5
Heat input calculation. By the 15th day of each month, the Permittee shall: (1) Record the natural gas consumption in cubic feet for EU 005 and EU 006 for the previous month. Using the energy content (Btu/ft3) provided by the natural gas supplier (if available) or the default value of 1028 Btu/ft3, the Permittee shall convert this value to MMBtu. This is the natural gas heat input for the month. (2) Record the fuel oil consumption in gallons for EU 005 and EU 006 for the previous month. Using the energy content (MMBtu/gal) provided by the fuel oil supplier (if available) or the default value of 0.137 MMBtu/gal, the Permittee shall convert this value to MMBtu. This is the fuel oil heat input for the previous month. (3) Sum the natural gas heat input and the fuel oil heat input for the previous month to EU 005 and EU 006. This is the total heat input for the previous month. (continued below)	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
(continued from above) (4) Sum the heat input to EU 005 and EU 006 for the most recent 12 months. This is the value that is compared to the 12-month rolling limit for heat limit.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
PERFORMANCE TESTING	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Fairmont Energy Station
Permit Number: 09100009 - 004

Performance Test: due 180 days after Permit Issuance for Carbon Dioxide (CO2) while burning distillate fuel oil. The results of this test will be used to verify the emission factor used in the permit application. This is a one-time test that may be conducted on either EU 005 or EU 006.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
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TABLE A: LIMITS AND OTHER REQUIREMENTS**A-6**

05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Subject Item: GP 005 Engines No. 3, No. 4, No. 5, and No. 6**Associated Items:** CE 005 SCR (Selective Catalytic Reduction)

CE 006 Catalytic Oxidizer

CE 007 SCR (Selective Catalytic Reduction)

CE 008 Catalytic Oxidizer

CE 009 SCR (Selective Catalytic Reduction)

CE 010 Catalytic Oxidizer

CE 011 SCR (Selective Catalytic Reduction)

CE 012 Catalytic Oxidizer

EU 009 Engine No. 3; CE 005 & CE 006

EU 010 Engine No. 4; CE 007 & CE 008

EU 011 Engine No. 5; CE 009 & CE 010

EU 012 Engine No. 6; CE 011 & CE 012

What to do	Why to do it
NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES	hdr
The members of GP 005 (EU 009, EU 010, EU 011, and EU 012) are each a new affected source as defined under 40 CFR pt. 63, subp. ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), and the facility is an area source as defined at 40 CFR Section 63.2. The Permittee shall meet the requirements of 40 CFR pt. 63, subp. ZZZZ by meeting the requirements of 40 CFR pt. 60, subp. JJJJ. No further requirements of 40 CFR pt. 63, subp. ZZZZ apply to the members of GP 005 (EU 009, EU 010, EU 011, or EU 012).	40 CFR Section 63.6590(c); Minn. R. 7011.8150
CONSTRUCTION AUTHORIZATION	hdr
The Permittee is authorized to install EU 009, EU 010, EU 011, and EU 012 as defined by the emissions unit information in Appendix B of this permit. The units shall meet all the requirements of this permit including those listed in GP 005. The construction authorization expires 18 months after permit issuance. The Permittee must keep a record of the dates of installation and start-up 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.	Minn. R. 7007.0800, subp. 2
EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent once operating temperatures have been attained. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input . This requirement applies individually to EU 009, EU 010, EU 011, and EU 012. Compliance with this limit is demonstrated by the use of pipeline natural gas.	Minn. R. 7011.2300, subp. 2
Nitrogen Oxides: less than or equal to 0.13 lbs/million Btu heat input . This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.37 lbs/million Btu heat input . This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.04 lbs/million Btu heat input . This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Carbon Dioxide: less than or equal to 120.30 lbs/million Btu heat input This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Methane: less than or equal to 2.80 lbs/million Btu heat input This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-7** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Heat Input: less than or equal to 895900 million Btu/year of natural gas based on a 12-month rolling sum to be calculated by the 15th day of each month. This requirement applies to the aggregate heat input to EU 009, EU 010, EU 011, and EU 012.	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000
Heat Input: less than or equal to 285000 million Btu/year of natural gas based on a 12-month rolling sum to be calculated by the 15th day of each month. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	To restrict potential pre-control device emissions below the major source threshold under 40 CFR Section 64.2(a)(3) & Minn. R. 7017.0200; Minn. R. 7007.0800, subp. 2
Nitrogen Oxides: less than or equal to 1.0 grams/horsepower-hour or 82 ppmvd at 15% oxygen. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	40 CFR Section 60.4233(e); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Carbon Monoxide: less than or equal to 2.0 grams/horsepower-hour or 270 ppmvd at 15% oxygen. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	40 CFR Section 60.4233(e); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Volatile Organic Compounds: less than or equal to 0.7 grams/horsepower-hour or 60 ppmvd at 15% oxygen. (VOC total excludes formaldehyde.) This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	40 CFR Section 60.4233(e); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
OPERATING CONDITIONS	hdr
Fuel type: Pipeline natural gas, by design. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012.	Minn. R. 7007.0800, subp. 2
If a non-certified engine is purchased, the Permittee shall do the following to demonstrate compliance: (a) Keep a maintenance plan and records of conducted maintenance; (b) To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practices for minimizing emissions; and (c) Conduct an initial performance test within one year of engine startup. Conduct subsequent performance testing every 8760 operating hours or three years (whichever comes first) thereafter, to measure NOx, VOC and CO emissions. The testing must follow the procedures in 40 CFR Section 60.4244, as applicable.	40 CFR Section 60.4243(b)(2); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
If an engine certified according to the procedures specified in 40 CFR Part 60, Subpart JJJJ for the same model year is purchased, the Permittee must demonstrate compliance with Subpart JJJJ by using one of the following methods from 40 CFR Section 60.4243(a): (1) Operate and maintain the certified engine according to the manufacturer's emission-related written instructions, and keep records of conducted maintenance, but no performance testing is required. OR (continued below)	40 CFR Section 60.4243(b)(1); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
(continued from above) (2) If you do not operate and maintain the certified engine according to the manufacturer's emission-related written instructions, the engine will be considered non-certified and you must: - Keep a maintenance plan and records of conducted maintenance; and - To the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions; and - Conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8760 operating hours or 3 years (whichever comes first) thereafter, to measure NOx, VOC and CO emissions.	40 CFR Section 60.4243(b)(1); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
PERFORMANCE TESTING	hdr
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 009 to test for NOx emissions from EU 009.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-8** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 009 to test for CO emissions from EU 009.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 009 to test for VOC emissions from EU 009.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 010 to test for NOx emissions from EU 010.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 010 to test for CO emissions from EU 010.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 010 to test for VOC emissions from EU 010.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 011 to test for NOx emissions from EU 011.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 011 to test for CO emissions from EU 011.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 011 to test for VOC emissions from EU 011.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 012 to test for NOx emissions from EU 012.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 012 to test for CO emissions from EU 012.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
Initial Performance Test: due 60 days after achieving maximum capacity but no later than 180 days after initial startup date of EU 012 to test for VOC emissions from EU 012.	40 CFR Section 60.8; 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
<p>The Permittee shall conduct each performance test within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR Section 60.8 and under the specific conditions that are specified by Table 2 to 40 CFR Part 60, Subpart JJJJ..</p> <p>The Permittee shall not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR Section 60.8(c). Startup of a non-operational stationary SI internal combustion engine is not required; however, the performance test must be conducted immediately upon startup of the engine.</p> <p>Each performance test shall consist of three separate test runs, as specified in 40 CFR Section 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.</p> <p>The Permittee shall use the equations in Appendix D to calculate the emission rates from performance test data.</p>	40 CFR Section 60.4244(a) - (g); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
The Permittee shall submit a copy of each performance test as conducted in 40 CFR Section 60.4244 within 60 days after the test has been completed.	40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
<p>Initial Performance Test: due 180 days after Initial Startup of the earliest-operating member of GP 005 for carbon dioxide (CO₂). The results of this test will be used to verify the emission factor used in the permit application.</p> <p>This is a one-time test on EU 009, EU 010, EU 011, or EU 012.</p>	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of the earliest-operating member of GP 005 for methane (CH ₄).	Title I Condition: To avoid classification as major source and modification under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of the earliest-operating unit in GP 005 for PM _{2.5} . The performance test for PM _{2.5} shall be conducted at the same time as the performance test for NOx on this unit.	Minn. R. 7017.2020, subp. 1
This is a one-time test on EU 009, EU 010, EU 011, or EU 012.	

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-9** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Initial Performance Test: due 180 days after Initial Startup of the earliest-operating unit in GP 005 for the ratio of NO ₂ to NO _x . This is a one-time test on EU 009, EU 010, EU 011, or EU 012.	Minn. R. 7017.2020, subp. 1
Conduct subsequent performance testing every 8760 operating hours or three years (whichever comes first) thereafter, to measure NO _x , VOC, and CO emissions. This requirement applies individually to EU 009, EU 010, EU 011, and EU 012	40 CFR Section 60.4243; Minn. R. 7017.2020, subp. 1
Conduct subsequent performance testing of one member of GP 005 every 8760 operating hours or three years (whichever comes first) thereafter, to measure methane emissions. Performance tests shall cycle through all members of GP 005 in ascending order, except that EU 009 shall be the unit tested after EU 012 is tested.	Minn. R. 7017.2020, subp. 1
MONITORING	hdr
For a period of 5 years from the date the records are created, the Permittee shall retain at the source records demonstrating that the requirements of 40 CFR Section 72.7(a) are met. The 5-year period for keeping records may be extended for cause, at any time prior to the end of the period, in writing by the Administrator or the permitting authority. (i) Such records shall include, for each delivery of fuel to the unit, the type of fuel, the sulfur content, and the sulfur content of each sample taken. (ii) The Permittee bears the burden of proof that the requirements of 40 CFR Section 72.7(a) are met.	40 CFR Section 72.7(f)(3)
Loss of exemption. An exempt unit shall be treated as an affected unit under the Acid Rain Program on the earliest of the following dates: (a) The date on which the unit first serves one or more generators with total nameplate capacity in excess of 25 MWe; (b) The date on which the unit burns any coal or coal derived fuel except for coal-derived gaseous fuel with a total sulfur content no greater than natural gas; or (c) January 1 of the year following the year in which the annual average sulfur content for nongaseous fuel burned at the unit exceeds 0.05 percent by weight (as determined under 40 CFR Section 72.7(d)).	40 CFR Section 72.7(f)(4)(i)
RECORDKEEPING	hdr
Heat input calculation. By the 15th day of each month, the Permittee shall: (1) Record the natural gas consumption in cubic feet for EU 009, EU 010, EU 011, and EU 012 individually for the previous month. Using the energy content (Btu/ft ³) provided by the natural gas supplier (if available) or the default value of 1028 Btu/ft ³ , the Permittee shall convert this value to MMBtu. This provides the heat input for each emission unit for the month. (2) Sum the heat input to each individual emission unit (EU 009, EU 010, EU 011, and EU 012) for the most recent 12 months. This provides the 12-month rolling heat input sum for each emission unit. Each of these sums will be compared to the heat input limit that applies to each individual emission unit. (3) Sum the 12-month rolling heat input sums for EU 009, EU 010, EU 011, and EU 012. This is the 12-month rolling sum that is compared to the GP 005 heat input limit.	Title I Condition: To avoid classification as major source under 40 CFR Section 52.21 & Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 and 5
Maintain records of the occurrence and duration of any startup, shutdown, or malfunction on the operation of the unit, any malfunction of air pollution control equipment, or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b); 40 CFR Section 60.4245(d); 40 CFR Section 63.6590(c); Minn. R. 7011.8150

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

05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

<p>The Permittee must keep records of the information in paragraphs (1) through (4):</p> <p>(1) All notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification.</p> <p>(2) Maintenance conducted on the engine.</p> <p>(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.</p> <p>(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR Section 60.4243(a)(2), documentation that the engine meets the emission standards.</p>	40 CFR Section 60.4245(a); 40 CFR Section 63.6590(c); Minn. R. 7011.8150
REPORTING/SUBMITTALS	hdr
<p>The Permittee shall submit initial notifications of the date construction commences on EU 009, EU 010, EU 011, and EU 012 to the Administrator within 30 days of the start of construction. The notification must include the information in paragraphs (1) through (5) of this section.</p> <p>(1) Name and address of the owner or operator;</p> <p>(2) The address of the affected source;</p> <p>(3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;</p> <p>(4) Emission control equipment; and</p> <p>(5) Fuel used.</p>	40 CFR Section 60.4245(c); 40 CFR Section 63.6590(c); Minn. R. 7011.8150

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-11** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Subject Item: GP 006 Selective Catalytic Reduction units**Associated Items:** CE 005 SCR (Selective Catalytic Reduction)

CE 007 SCR (Selective Catalytic Reduction)

CE 009 SCR (Selective Catalytic Reduction)

CE 011 SCR (Selective Catalytic Reduction)

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Nitrogen Oxides: greater than or equal to 60 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
The Permittee shall operate and maintain each selective catalytic reduction (SCR) unit any time that any process equipment controlled by the SCR unit is in operation. The Permittee shall document periods of non-operation of the control equipment. This requirement applies individually to CE 005 (for EU 009), CE 007 (for EU 010), CE 009 (for EU 011), and CE 011 (for EU 012).	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Monitoring Equipment: The Permittee shall install and maintain a monitor for NOx emissions from the SCR unit. The unit shall measure NOx emission in parts per million by volume (ppmv) at least once per hour for a duration of at least five minutes. The monitoring equipment must be installed, in use, and properly maintained whenever the monitored control equipment is required to be operated. This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.	Minn. R. 7007.0800, subp. 4
The Permittee shall monitor the NOx concentration exiting each SCR unit. This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000
Corrective Actions: If the NOx concentration exiting an SCR unit exceeds 35 ppm, or if the SCR unit or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the NOx concentration to a maximum of 35 ppm and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the SCR unit. The Permittee shall keep a record of the type and date of any corrective action taken. This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.	Minn. R. 7007.0800, subps. 4, 5, and 14
Daily Monitoring: The Permittee shall physically verify the operation of the NOx recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications. This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Minn. R. 7007.0800, subps. 4 and 5
The Permittee shall maintain a continuous hard copy readout or computer disk file of the NOx concentration (in ppm). This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer specifications, the Permittee shall inspect the SCR unit's internal and external system components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection. This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.	Minn. R. 7007.0800, subps. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate the NOx monitor for each SCR unit at least annually or more frequently if required by the manufacturer's operation and maintenance manual. The Permittee shall also maintain a written record of the calibration and any action resulting from the calibration. This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.	Minn. R. 7007.0800, subps. 4, 5, and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-12**

05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

<p>For periods when the SCR unit is operated above the minimum inlet temperature and below the maximum inlet temperature, the Permittee shall use either one of the following when completing calculations as required elsewhere in this permit:</p> <p>a. The overall control efficiency limits specified in this permit for this equipment (60% NO_x); or</p> <p>b. The overall control efficiency determined during the most recent MPCA approved performance test. If one of more of the tested efficiencies is less than the efficiency limit in this permit for the same pollutant, the Permittee must use the tested value in all calculations for that pollutant until the efficiency is demonstrated to be above the permit limit through a new test.</p> <p>This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.</p>	<p>Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14</p>
<p>The Permittee shall operate and maintain each SCR unit in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.</p> <p>This requirement applies individually to CE 005, CE 007, CE 009, and CE 011.</p>	<p>Minn. R. 7007.0800, subp. 14</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-13** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

Subject Item: GP 007 Oxidation Catalysts**Associated Items:** CE 006 Catalytic Oxidizer

CE 008 Catalytic Oxidizer

CE 010 Catalytic Oxidizer

CE 012 Catalytic Oxidizer

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
The Permittee shall operate and maintain each engine catalyst any time that any process equipment controlled by the engine catalyst is in operation. The Permittee shall document periods of non-operation of the control equipment. This requirement applies individually to CE 006 (for EU 009), CE 008 (for EU 010), CE 010 (for EU 011), and CE 012 (for EU 012).	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain each oxidation catalyst such that it achieves an overall control efficiency for Carbon Monoxide: greater than or equal to 45 percent control efficiency	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain each oxidation catalyst such that it achieves an overall control efficiency for Volatile Organic Compounds: greater than or equal to 65 percent	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain each oxidation catalyst such that it achieves an overall control efficiency for HAPs - Total: greater than or equal to 65 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14
The Permittee shall operate and maintain each oxidation catalyst such that it achieves an overall control efficiency for Formaldehyde: greater than or equal to 65 percent control efficiency	Title I Condition: To avoid classification as major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14
Temperature: greater than or equal to 550 degrees F and less than 950 degrees F using 3-hour Rolling Average for each oxidation catalyst (CE006, CE 008, CE 010, and CE 012) unless a new limit is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new limit shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The limit is final upon issuance of a permit amendment incorporating the change. If the temperature is below the minimum inlet temperature limit or above the maximum inlet temperature, the NOx, CO, VOC and HAPs emissions during that time shall be considered uncontrolled until the inlet temperature is above the minimum temperature limit and below the maximum outlet temperature. This shall be reported as a deviation. This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14
MONITORING AND RECORDKEEPING	hdr
Daily Monitoring: The Permittee shall physically verify the operation of the temperature recording device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications. This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Minn. R. 7007.0800, subps. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain thermocouples for measuring the temperatures as required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever the monitored control equipment is required to be operated. This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Minn. R. 7007.0800, subp. 4
The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records both the inlet and outlet temperatures of the oxidation catalyst. The monitoring device shall have a margin of error less than the greater of +/- 0.75 percent of the temperature being measured or +/- 2.5 degrees Celsius. The recording device shall also calculate the three-hour rolling average inlet temperature. This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.	Minn. R. 7007.0800, subps. 4 and 5

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-14** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

<p>The Permittee shall maintain a continuous hard copy readout or computer disk file of the inlet and outlet temperatures and the calculated three-hour rolling average inlet temperature.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14</p>
<p>Monthly Monitoring: At least once each month during normal operation, the Permittee shall record the temperature rise across the oxidation catalyst (outlet temp. - inlet temp.) while the process is running. If it is determined that the catalyst reactivity has been impaired, by comparison of the observed temperature rise to the past temperature rise records, the Permittee shall follow the corrective actions in the Operation and Maintenance Plan. The Permittee shall maintain written records of the monitoring and any corrective actions taken.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Minn. R. 7007.0800, subps. 4, 5, and 14</p>
<p>Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer specifications, the Permittee shall inspect the control equipment internal and external system components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Minn. R. 7007.0800, subps. 4, 5, and 14</p>
<p>Annual Calibration: The Permittee shall calibrate the temperature monitor for each oxidation catalyst at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Minn. R. 7007.0800, subps. 4, 5, and 14</p>
<p>For periods when the oxidation catalyst is operated above the minimum inlet temperature and below the maximum inlet temperature, the Permittee shall use either one of the following when completing calculations as required elsewhere in this permit:</p> <p>a. The overall control efficiency limits specified in this permit for this equipment (45% for CO; 65% for VOCs, HAPs, and formaldehyde); or</p> <p>b. The overall control efficiencies determined during the most recent MPCA approved performance test. If one of more of the tested efficiencies is less than the efficiency limit in this permit for the same pollutant, the Permittee must use the tested value in all calculations for that pollutant until the efficiency is demonstrated to be above the permit limit through a new test.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Title I Condition: To avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; to avoid classification as a major source under 40 CFR Section 63.2 and Minn. R. 7011.7000; Minn. R. 7007.0800, subps. 2 and 14</p>
<p>Corrective Actions: If the temperature entering the oxidation catalyst is below the minimum specified by this permit, or if the temperature entering the oxidation catalyst exceeds the maximum specified by this permit, or if the oxidation catalyst or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible.</p> <p>Corrective actions shall return the temperature to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the oxidation catalyst. The Permittee shall keep a record of the type and date of any corrective action taken.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Minn. R. 7007.0800, subps. 4, 5, and 14</p>
<p>The Permittee shall operate and maintain each oxidation catalyst in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.</p> <p>This requirement applies individually to CE 006, CE 008, CE 010, and CE 012.</p>	<p>Minn. R. 7007.0800, subp. 14</p>

TABLE B: SUBMITTALS**B-1** 05/02/12

Facility Name: Fairmont Energy Station
Permit Number: 09100009 - 004

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

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

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 submittals that are required by the Acid Rain Program to:

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

Send any application for a permit or permit amendment to:

AQ Permit Document 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

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

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

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**B-2** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup	EU009, EU010, EU011, EU012
Notification of the Date Construction Began	due 30 days after Start Of Construction	EU009, EU010, EU011, EU012
Notification	due 15 days after Resuming Operation on distillate fuel oil for 30 cumulative hours after the effective date of this permit, by either emission unit in GP 003.	GP003
Performance Test Report	due 60 days after Performance Test that was conducted per 40 CFR Section 60.4244	EU009, EU010, EU011, EU012

TABLE B: RECURRENT SUBMITTALS**B-3** 05/02/12

Facility Name: Fairmont Energy Station

Permit Number: 09100009 - 004

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year following Permit Issuance (for the previous calendar year). The Permittee shall submit this on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL

Facility Name: Fairmont Energy Station
Permit Number: 09100009-004

APPENDIX A
Operator's Summary (not included)

APPENDIX MATERIAL

Facility Name: Fairmont Energy Station
Permit Number: 09100009-004

APPENDIX B
New Emission Units

The units listed in the table below are authorized to be installed under Air Emission Permit No. 09100009-004.

ID Number	Description	Input	Output
EU 009	Caterpillar Model G16CM34	54920 ft ³ /hr natural gas	6520 kWe (9012 bhp)
EU 010	Caterpillar Model G16CM34	54920 ft ³ /hr natural gas	6520 kWe (9012 bhp)
EU 011	Caterpillar Model G16CM34	54920 ft ³ /hr natural gas	6520 kWe (9012 bhp)
EU 012	Caterpillar Model G16CM34	54920 ft ³ /hr natural gas	6520 kWe (9012 bhp)

APPENDIX MATERIAL

Facility Name: Fairmont Energy Station
Permit Number: 09100009-004

APPENDIX C

Insignificant Activities

The units listed in the table below are identified as “Insignificant activities not required to be listed” as defined in Minn. R. 7007.1300, subp. 2.

ID Number	Product stored	Construction type	Capacity	Citation
TK 002	Diesel fuel	Fixed roof	30,000 gallons	Minn. R. 7007.1300, subp. 2.E(3)
TK 003	Diesel fuel	Fixed roof	30,000 gallons	Minn. R. 7007.1300, subp. 2.E(3)
TK 004	Diesel fuel	Fixed roof	360 gallons	Minn. R. 7007.1300, subp. 2.E(3)
TK 005	Diesel fuel	Fixed roof	360 gallons	Minn. R. 7007.1300, subp. 2.E(3)
TK 008	Lubricating oil	Fixed roof	2,000 gallons	Minn. R. 7007.1300, subp. 2.E(2)
TK 009	Lubricating oil	Fixed roof	1,200 gallons	Minn. R. 7007.1300, subp. 2.E(2)
TK 010	Lubricating oil	Fixed roof	1,200 gallons	Minn. R. 7007.1300, subp. 2.E(2)

The units listed in the table below are identified as “Insignificant activities required to be listed” as defined in Minn. R. 7007.1300, subp. 3.

ID Number	Product stored	Construction type	Capacity	Citation
TK 006	Urea	Fixed roof	4,000 gallons	Minn. R. 7007.1300, subp. 3.I
TK 007	Ethylene glycol	Fixed roof	2,650 gallons	Minn. R. 7007.1300, subp. 3.I

APPENDIX MATERIAL

Facility Name: Fairmont Energy Station
Permit Number: 09100009-004

APPENDIX D
40 CFR § 63.6620(a)(2)

- To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 1)$$

Where:

ER = Emission rate of NO_x in g/HP-hr.

C_d = Measured NO_x concentration in parts per million by volume (ppmv).

1.912×10⁻³ = Conversion constant for ppm NO_x to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 2)$$

Where:

ER = Emission rate of CO in g/HP-hr.

C_d = Measured CO concentration in ppmv.

1.164×10⁻³ = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- When calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (Eq. 3)$$

Where:

APPENDIX MATERIAL

Facility Name: Fairmont Energy Station

Permit Number: 09100009-004

ER = Emission rate of VOC in g/HP-hr.

Cd= VOC concentration measured as propane in ppmv.

1.833×10^{-3} = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

- If you choose to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5. The corrected VOC concentration can then be placed on a propane basis using Equation 6.

$$RF_i = \frac{C_{Ai}}{C_{Mi}} \quad (\text{Eq. 4})$$

Where:

RF_i= Response factor of compound i when measured with EPA Method 25A.

C_{Mi}= Measured concentration of compound i in ppmv as carbon.

C_{Ai}= True concentration of compound i in ppmv as carbon.

$$C_{i, \text{corr}} = RF_i \times C_{i, \text{meas}} \quad (\text{Eq. 5})$$

Where:

C_{i,corr}= Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

C_{i,meas}= Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{\text{Peq}} = 0.6098 \times C_{i, \text{corr}} \quad (\text{Eq. 6})$$

Where:

C_{Peq}= Concentration of compound i in mg of propane equivalent per DSCM.