

**AIR EMISSION PERMIT NO. 03100001- 004
(ADMINISTRATIVE AMENDMENT)
IS ISSUED TO**

Rainy River Energy Corporation

Rainy River Energy Corporation - Taconite
Taconite Harbor-U.S. Highway 61
Schroeder, Cook County, MN 55613

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	Permit Number	Application Date	Issuance Date
Total Facility Operating Permit	03100001-001	06/14/1995	5/19/1997
Major Amendment	03100001-002	11/30/1998	4/7/1999
Administrative Amendment	03100001-003	10/1/2001	10/30/2001
Administrative Amendment	03100001-004	3/20/2002	5/02/2002

This permit authorizes the Permittee to operate the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Permit Type: Federal; Part 70

Administrative Amendment

Issue Date: May 19, 1997

Issue Date: May 2, 2002

Expiration: April 7, 2004

All Title I Conditions do not expire.

Ann M. foss

Ann M. Foss, Manager
Major Facilities Section
Majors and Remediation Division

for Karen A. Studders
Commissioner
Minnesota Pollution Control Agency

JSC:lh

TDD (for hearing and speech impaired only): (651) 282-5332

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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 in 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 is a coal-fired steam powered electrical generating station.

AMENDMENT DESCRIPTION

Amendment 03100001-004 incorporates an extension to a performance test deadline for SV 003 in the permit by a maximum of 365 days.

Amendment 03100001-003 changed the owner of the facility.

Amendment 03100001-002 allowed the permittee to discontinue operation of the Total Suspended Particulate (TSP) ambient air quality monitors.

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
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
Fugitive Control Plan: Submit a fugitive emission control plan within 60 days of the date of permit issuance for review and approval by the Commissioner. The plan shall identify all fugitive emission sources, primary and contingent control measures, and records kept, if any.	Minn. R. 7007.0800, subp. 2
Comply with Fugitive Emissions Control Plan: Follow the actions and recordkeeping specified in the control plan. The plan may be amended with the Commissioner's approval. If the Commissioner determines that you are out of compliance with Minn. R. 7011.0105 or the control plan, then you may be required to amend the control plan. The Commissioner may also require continued operation of particulate matter ambient air monitors, or re-installation and operation of particulate matter ambient air monitors.	Minn. R. 7007.0800, subp. 2
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)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. The permittee shall follow the plan to achieve compliance with the applicable emission limits in this permit.	Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
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
Oral Notification of Deviations Endangering Human Health or the Environment: Within 24 hours of discovery, orally notify the Commissioner of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7007.0800, subp. 6(A)
Discovery of Deviations Endangering Human Health or the Environment Report (written): due two working days after discovery of deviation, submit a written description of any deviation endangering human health or the environment to the Commissioner. Include the following information in this written description: cause of the deviation; exact dates of the period of the deviation; if the deviation has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7007.0800, subp. 6(A)
Application for Permit Amendment: If you need a permit amendment, submit 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
Shutdowns: Notify the Commissioner at least 24 hours in advance of shutdown of any process or control equipment if the shutdown would cause an increase in the emission of air contaminants. At the time of notification, notify the Commissioner of the cause of the shutdown and the estimated duration. Notify the Commissioner again when the shutdown is over.	Minn. R. 7019.1000, subp. 1
Breakdowns: Notify the Commissioner immediately of a breakdown of more than one hour duration of any process or control equipment if the breakdown causes an increase in the emission of air contaminants. At the time of notification or as soon thereafter as possible, the permittee shall also notify the Commissioner of the cause of the breakdown and the estimated duration. Notify the Commissioner again when the breakdown is over.	Minn. R. 7019.1000, subp. 2
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

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises, to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.	Minn. R. 7007.0800, subp. 9(A)
Record keeping: 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 strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
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)
No emissions of acidic or alkaline substances in such amount that the downwind fall out rate at any place where an adverse effect could occur exceeds the upwind fall out rate by five or more spots per hour, measured in accordance with Minn. R. 7011.0405.	Minn. R. 7011.0400
Noise: The Permittee shall comply with noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during operation of any emission units. This is a state requirement only and is not federally enforceable.	Minn. R. 7030.0010-7030.0080
Operating and/or production limits will be placed on emission units based on operating conditions during performance testing. Limits set as a result of a performance test (conducted before or after permit issuance) apply until new operating/production limits are set following formal review of a performance test as specified by Minn. R. 7017.2025.	Minn. R. 7017.2025
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
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, such as for system breakdowns, repairs, calibration checks, and zero and span adjustments (as applicable). Monitoring records should reflect any such periods of process shutdown.	Minn. R. 7007.0800, subp. 4(D)
Ambient Air Monitoring Network: the Permittee shall discontinue operation of the remaining total suspended particulate ambient air monitors upon issuance of this amendment to the Title V permit. Written notice of the discontinuation shall be sent to the Agency within 10 days of ceasing operation.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: GP 001 Three 745 MMBtu/hr coal-fired boilers**Associated Items:** EU 001 Boiler No. 1

EU 002 Boiler No. 2

EU 003 Boiler No. 3

What to do	Why to do it
Total GP001 Sulfur Dioxide: less than or equal to 1743 lbs/hour using 3 Hour Average	Title I Condition to ensure compliance with the sulfur dioxide ambient air standard in Minn. R. 7009.0080
Mercury content of coal: Less than or equal to 0.20 parts per million on an annual average basis. The agency will refrain from enforcement action for exceedance of this mercury limit if the Permittee is able to demonstrate, to the satisfaction of the agency, that the Permittee has used best efforts to comply with the mercury limit.	Minn. R. 7007.0800, subp. 2
Coal sampling for mercury content: Collect a daily coal sample, and analyze a composite sample of the coal at least once a week according to ASTM Method D-3684. The Permittee shall maintain a record of all analyses for at least 5 years from the date of analysis. Results of the analyses shall be reported to the Supervisor, Compliance Determination Unit semiannually with the Semiannual Deviations Report.	Minn R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: SV 001

Associated Items: EU 001 Boiler No. 1

MR 001

MR 002

MR 003

MR 004

MR 005

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 lbs/million Btu heat input (excluding condensible organic particulate matter).	Minn. R. 7007.0800, subp. 2; meets requirements of Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except that a maximum of 60% opacity shall be permissible for four minutes in any 60 minute period and a maximum of 40% opacity shall be permissible for four additional minutes in any 60 minute period based on a one(1)-minute averaging period.	Minn. R. 7011.0510, subp. 2
Sulfur Dioxide: less than or equal to 0.78 lbs/million Btu heat input using 3-hour Average	Minn. R. 7009.0020 to not cause or contribute to a violation of the SO2 ambient air standard in Minn. R. 7009.0080; meets the requirements of Minn. R. 7011.0510, subp. 1
Fuels allowed: bituminous coal, sub-bituminous coal, No. 2 fuel oil, used oil, and used oil sorbents.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due before 10/31/00 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Initial Performance Test	Minn. R. 7017.2030, subp. 4
Performance Test: due before end of each 60 months following Initial Performance Test to measure particulate matter emissions. The tests shall be conducted at an interval not to exceed 60 months between test dates.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before end of each 60 months following Initial Performance Test (7 days after each Performance Test)	Minn. R. 7017.2030, subp. 4
Boiler Alternative Operating Conditions for Performance Testing: Alternative Operating Conditions during testing are defined as 90% to 100% of the boiler's maximum normal (continuous) operating load or the maximum permitted operating rate, whichever is lower. The basis for this number must be included in the test plan. If testing is conducted at the alternative operating condition established, an operating limit will not be established as a result of performance testing. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 2(A) and 3(B)
Boiler Operating Conditions Not Meeting the Alternative Operating Conditions During Performance Testing: If performance testing is not conducted at or above the established alternative operating condition, then the boiler operating rate will be limited on an 8-hour block average based on the following: (1) If the results of the performance test are greater than 80% of any applicable emission limit for which emissions are measured, then boiler operation will be limited to the tested operating rate. (2) If results are less than or equal to 80% of all applicable emission limits for which emissions are measured, boiler operation will be limited to 110% of the tested operating rate. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 3(B)
STET (Short Term Emergency and Testing) Operating hours limit: The boiler may operate up to 40 hours per year to demonstrate the Uniform Rating of Generating Equipment (URGE) capacity and to meet emergency energy supply needs. Documentation of all STET operation shall be maintained. The boiler must meet emission limits during STET operation.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

STET Operation Definition that applies to Boilers that Meet or do Not Meet the Alternative Operating Condition for Performance Testing: If performance test results measure emissions at 80% or less of any applicable emission limits for any tested pollutant, STET operation is defined as operation beyond 110% of the average operating rate achieved during that performance test. If performance test results measure emissions at greater than 80% any applicable emission limit for any tested pollutant, STET operation is defined as operation beyond 100% of the average operating rate achieved during that performance test. In no case will STET operation be higher than allowed by an existing permit condition.	Minn. R. 7007.0800, subp. 2
The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.	Minn. R. 7017.2020, subp. 4
Emissions Monitoring: The owner or operator shall measure the opacity of the emission unit using a COMS.	Minn. R. 7017.1000, subp. 1; Minn. R. 7007.0800, subp. 2
COMS Monitoring Data: Owners or operators of all COMS shall reduce all data to one-minute averages. Opacity averages shall be calculated from all equally spaced consecutive 10-second (or shorter) data points in the one-minute averaging period.	Minn. R. 7007.0800, subp. 2
COMS Continuous Operation: Except for system breakdowns, repairs, calibration checks and zero and span adjustments, all COMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
COMS Daily Calibration Drift (CD) Check: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) opacity at least once daily. The COMS must be adjusted whenever the calibration drift (CD) exceeds the twice specification of PS-1 of 40 CFR pt. 60, Appendix B.	Minn. R. 7017.1000
COMS Calibration Error Audit: due before end of each calendar half-year following COMS Certification Test . Conduct audits at least 3 months apart but no greater than 8 months apart.	Minn. R. 7007.0800, subp. 2
Emissions Monitoring: The owner or operator shall monitor SO ₂ emissions using a CEMS.	Minn. R. 7017.1000, subp. 1; Minn. R. 7007.0800, subp. 2
SO ₂ CEM Failure: The permittee shall conduct daily coal sampling if the SO ₂ CEM on SV 001 has been down for at least 48 hours and no other boiler is operating. Coal sampling shall be at the coal feeder and shall meet the requirements of ASTM 2234. If another boiler is operating and the SO ₂ emissions from the other boiler are measured with a functioning SO ₂ CEM, and the other boiler is burning the same coal, the data from the operating SO ₂ CEM will be used as a measure of SV 001 SO ₂ emissions.	Minn. R. 7007.0800, subp. 2
CEMS Continuous Operation: Except for system breakdowns, repairs, calibrations checks and zero and span adjustments, all CEMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR pt. 60, Appendix B. 40 CFR pt. 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1000, subp. 5
CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year following CEM Certification Test . Conduct CGA at least 3 months apart and not greater than 8 months apart. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7007.0800, subp. 2
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following CEM Certification Test . If the relative accuracy is 15% or less the next CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR pt. 60 Appendix B and Appendix F.	Minn. R. 7007.0800, subp. 2
Recordkeeping: The owner or operator must retain records of all CEMS/COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7007.0800, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: SV 002**Associated Items:** EU 002 Boiler No. 2

MR 006

MR 007

MR 008

MR 009

MR 010

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 lbs/million Btu heat input (excluding condensible organic particulate matter).	Minn. R. 7007.0800, subp. 2; meets requirements of Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except that a maximum of 60% opacity shall be permissible for four minutes in any 60 minute period and a maximum of 40% opacity shall be permissible for four additional minutes in any 60 minute period based on a one(1)-minute averaging period.	Minn. R. 7011.0510, subp. 2
Sulfur Dioxide: less than or equal to 0.78 lbs/million Btu heat input using 3-hour Average	Minn. R. 7009.0020 to not cause or contribute to a violation of the SO ₂ ambient air standard in Minn. R. 7009.0080; meets requirements of Minn. R. 7011.0510, subp. 1
Fuels allowed: bituminous coal, sub-bituminous coal, No. 2 fuel oil, used oil, and used oil sorbents.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due before 10/31/00 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Initial Performance Test	Minn. R. 7017.2030, subp. 4
Boiler Alternative Operating Conditions for Performance Testing: Alternative Operating Conditions during testing are defined as 90% to 100% of the boiler's maximum normal (continuous) operating load or the maximum permitted operating rate, whichever is lower. The basis for this number must be included in the test plan. If testing is conducted at the alternative operating condition established, an operating limit will not be established as a result of performance testing. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 2(A) and 3(B)
Boiler Operating Conditions Not Meeting the Alternative Operating Conditions During Performance Testing: If performance testing is not conducted at or above the established alternative operating condition, then the boiler operating rate will be limited on an 8-hour block average based on the following: (1) If the results of the performance test are greater than 80% of any applicable emission limit for which emissions are measured, then boiler operation will be limited to the tested operating rate. (2) If results are less than or equal to 80% of all applicable emission limits for which emissions are measured, boiler operation will be limited to 110% of the tested operating rate. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 3(B)
STET (Short Term Emergency and Testing) Operating hours limit: The boiler may operate up to 40 hours per year to demonstrate the Uniform Rating of Generating Equipment (URGE) capacity and to meet emergency energy supply needs. Documentation of all STET operation shall be maintained. The boiler must meet emission limits during STET operation.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

STET Operation Definition that applies to Boilers that Meet or do Not Meet the Alternative Operating Condition for Performance Testing: If performance test results measure emissions at 80% or less of any applicable emission limits for any tested pollutant, STET operation is defined as operation beyond 110% of the average operating rate achieved during that performance test. If performance test results measure emissions at greater than 80% any applicable emission limit for any tested pollutant, STET operation is defined as operation beyond 100% of the average operating rate achieved during that performance test. In no case will STET operation be higher than allowed by an existing permit condition.	Minn. R. 7007.0800, subp. 2
The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.	Minn. R. 7017.2020, subp. 4
Performance Test: due before end of each 60 months following Initial Performance Test to measure particulate matter emissions. The tests shall be conducted at an interval not to exceed 60 months between test dates.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before end of each 60 months following Initial Performance Test (7 days after each Performance Test)	Minn. R. 7017.2030, subp. 4
Emissions Monitoring: The owner or operator shall measure the opacity of the emission unit(s) using a COMS.	Minn. R. 7007.0800, subp. 2
COMS Monitoring Data: Owners or operators of all COMS shall reduce all data to one-minute averages. Opacity averages shall be calculated from all equally spaced consecutive 10-second (or shorter) data points in the one-minute averaging period.	Minn. R. 7007.0800, subp. 2
COMS Continuous Operation: Except for system breakdowns, repairs, calibration checks and zero and span adjustments, all COMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
COMS Daily Calibration Drift (CD) Check: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) opacity at least once daily. The COMS must be adjusted whenever the calibration drift (CD) exceeds twice the specification of PS-1 of 40 CFR pt. 60, Appendix B.	Minn. R. 7017.1000
COMS Calibration Error Audit: due before end of each calendar half-year following COMS Certification Test . Conduct audits at least 3 months apart but no greater than 8 months apart.	Minn. R. 7007.0800, subp. 2
Emissions Monitoring: The owner or operator shall monitor SO2 emissions using a CEMS.	Minn. R. 7017.1000, subp. 1; Minn. R. 7007.0800, subp. 2
SO2 CEM Failure: The permittee shall conduct daily coal sampling if the SO2 CEM on SV 002 has been down for at least 48 hours and no other boiler is operating. Coal sampling shall be at the coal feeder and shall meet the requirements of ASTM 2234. If another boiler is operating and the SO2 emissions from the other boiler are measured with a functioning SO2 CEM, and the other boiler is burning the same coal, the data from the operating SO2 CEM will be used as a measure of SV 002 SO2 emissions.	Minn. R. 7007.0800, subp. 2
CEMS Continuous Operation: Except for system breakdowns, repairs, calibrations checks and zero and span adjustments, all CEMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specifications of 40 CFR pt. 60, Appendix B. 40 CFR pt. 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1000, subp. 5
CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year following CEM Certification Test . Conduct CGA at least 3 months apart and not greater than 8 months apart. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7007.0800, subp. 2
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following CEM Certification Test . If the relative accuracy is 15% or less the next CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR pt. 60 Appendix B and Appendix F.	Minn. R. 7007.0800, subp. 2
Recordkeeping: The owner or operator must retain records of all CEMS/COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7007.0800, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: SV 003**Associated Items:** EU 003 Boiler No. 3

MR 011

MR 012

MR 013

MR 014

MR 015

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 lbs/million Btu heat input (excluding condensible organic particulate matter).	Minn. R. 7007.0800, subp. 2; meets requirements of Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except that a maximum of 60% opacity shall be permissible for four minutes in any 60 minute period and a maximum of 40% opacity shall be permissible for four additional minutes in any 60 minute period based on a one(1)-minute averaging period.	Minn. R. 7011.0510, subp. 2;
Sulfur Dioxide: less than or equal to 0.78 lbs/million Btu heat input using 3-hour Average	Minn. R. 7009.0020 to not cause or contribute to a violation of the ambient SO2 standards in Minn. R. 7009.0080; meets the requirements of Minn. R. 7011.0510, subp. 1
Fuels allowed: bituminous coal, sub-bituminous coal, No. 2 fuel oil, used oil, and used oil sorbents.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due before 09/30/98 to measure particulate matter emissions.	Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Initial Performance Test	Minn. R. 7017.2030, subp. 4
Boiler Alternative Operating Conditions for Performance Testing: Alternative Operating Conditions during testing are defined as 90% to 100% of the boiler's maximum normal (continuous) operating load or the maximum permitted operating rate, whichever is lower. The basis for this number must be included in the test plan. If testing is conducted at the alternative operating condition established, an operating limit will not be established as a result of performance testing. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 2(A) and 3(B)
Boiler Operating Conditions Not Meeting the Alternative Operating Conditions During Performance Testing: If performance testing is not conducted at or above the established alternative operating condition, then the boiler operating rate will be limited on an 8-hour block average based on the following: (1) If the results of the performance test are greater than 80% of any applicable emission limit for which emissions are measured, then boiler operation will be limited to the tested operating rate. (2) If results are less than or equal to 80% of all applicable emission limits for which emissions are measured, boiler operation will be limited to 110% of the tested operating rate. In no case will the new operating rate limit be higher than allowed by an existing permit condition.	Minn. R. 7017.2025, subp. 3(B)
STET (Short Term Emergency and Testing) Operating hours limit: The boiler may operate up to 40 hours per year to demonstrate the Uniform Rating of Generating Equipment (URGE) capacity and to meet emergency energy supply needs. Documentation of all STET operation shall be maintained. The boiler must meet emission limits during STET operation.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

<p>STET Operation Definition that applies to Boilers that Meet or do Not Meet the Alternative Operating Condition for Performance Testing:</p> <p>If performance test results measure emissions at 80% or less of any applicable emission limits for any tested pollutant, STET operation is defined as operation beyond 110% of the average operating rate achieved during that performance test.</p> <p>If performance test results measure emissions at greater than 80% any applicable emission limit for any tested pollutant, STET operation is defined as operation beyond 100% of the average operating rate achieved during that performance test.</p> <p>In no case will STET operation be higher than allowed by an existing permit condition.</p>	Minn. R. 7007.0800, subp. 2
The results of a performance test are not final until issuance of a review letter by MPCA, unless specified otherwise by Minn. R. 7017.2001 - 7017.2060.	Minn. R. 7017.2020, subp. 4
Performance Test: due before end of each 48 months starting 08/11/1998 to measure particulate matter emissions. This amendment (03100001-004) incorporates an extension to a performance test deadline for SV 003 in the permit (not to exceed 36 months) by a maximum of 365 days. However, the future tests shall be conducted at an interval not to exceed 36 months between test dates.	Minn. R. 7017.2020, subp. 1
<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.</p> <p>Performance Test Notification (written): due 30 days before each Performance Test</p> <p>Performance Test Plan: due 30 days before each Performance Test</p> <p>Performance Test Pre-test Meeting: due 7 days before each Performance Test</p> <p>Performance Test Report: due 45 days after each Performance Test</p> <p>Performance Test Report - Microfiche Copy: due 105 days after each Performance Test</p>	Minn. R. 7017.2030, subp. 1-4 and Minn. R. 7017.2035, subp. 1-2
Emissions Monitoring: The owner or operator shall measure the opacity of the emission unit using a COMS.	Minn. R. 7007.0800, subp. 2
COMS Monitoring Data: Owners or operators of all COMS shall reduce all data to one-minute averages. Opacity averages shall be calculated from all equally spaced consecutive 10-second (or shorter) data points in the one-minute averaging period.	Minn. R. 7007.0800, subp. 2
COMS Continuous Operation: Except for system breakdowns, repairs, calibration checks and zero and span adjustments, all COMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
COMS Daily Calibration Drift (CD) Check: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) opacity at least once daily. The COMS must be adjusted whenever the calibration drift (CD) exceeds twice the specifications of PS-1 of 40 CFR pt. 60, Appendix B.	Minn. R. 7017.1000
COMS Calibration Error Audit: due before end of each calendar half-year following COMS Certification Test. Conduct audits at least 3 months apart but no greater than 8 months apart.	Minn. R. 7007.0800, subp. 2
Emissions Monitoring: The owner or operator shall monitor SO ₂ emissions using a CEMS.	Minn. R. 7017.1000, subp. 1; Minn. R. 7007.0800, subp. 2
SO ₂ CEM Failure: The permittee shall conduct daily coal sampling if the SO ₂ CEM on SV 003 has been down for at least 48 hours and no other boiler is operating. Coal sampling shall be at the coal feeder and shall meet the requirements of ASTM 2234. If another boiler is operating and the SO ₂ emissions from the other boiler are measured with a functioning SO ₂ CEM, and the other boiler is burning the same coal, the data from the operating SO ₂ CEM will be used as a measure of SV 003 SO ₂ emissions.	Minn. R. 7007.0800, subp. 2
CEMS Continuous Operation: Except for system breakdowns, repairs, calibrations checks and zero and span adjustments, all CEMS shall be in continuous operation.	Minn. R. 7007.0800, subp. 2
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily. The CEMS shall be adjusted whenever the CD exceeds twice the specification of 40 CFR pt. 60, Appendix B. 40 CFR pt. 60, Appendix F, shall be used to determine out-of-control periods for CEMS.	Minn. R. 7007.0800, subp. 2; Minn. R. 7017.1000, subp. 5
CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year following CEM Certification Test. Conduct CGA at least 3 months apart and not greater than 8 months apart. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following CEM Certification Test . If the relative accuracy is 15% or less the next CEMS RATA is not due for 24 months. Follow the procedures in 40 CFR pt. 60 Appendix B and Appendix F.	Minn. R. 7007.0800, subp. 2
Recordkeeping: The owner or operator must retain records of all CEMS/COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7007.0800, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: EU 004 Heating Boiler**Associated Items:** SV 004

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.6 lbs/million BTU heat input	Minn. R. 7011.0510, subp. 1
Opacity: less than or equal to 20 percent opacity except that a maximum of 60 percent opacity shall be permissible for four minutes in any 60-minute period and that a maximum of 40 percent opacity shall be permissible for four additional minutes in any 60-minutes period.	Minn. R. 7011.0510, subp. 2
Fuel type limited to distillate fuel oil.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: EU 005 Cold Start Generator**Associated Items:** SV 005

What to do	Why to do it
Opacity: less than or equal to 20 percent opacity for more than 10 consecutive seconds once operating temperatures have been obtained.	Minn. R. 7011.2300, subp. 1
Fuel type limited to distillate fuel oil.	Minn. R. 7007.0800, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

Subject Item: EU 006 Ash Collection Baghouse**Associated Items:** CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
SV 006

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot if not required to further reduce emissions according to Minn. R. 7011.0710, subp. 1.A.	Minn. R. 7011.0710, subp. 1.A.
Opacity: less than or equal to 20 percent opacity except that a maximum of 60 percent opacity is allowed for four minutes in any 60-minute period, and a maximum of 40 percent opacity is allowed for four additional minutes in any 60-minute period.	Minn. R. 7011.0710, subp. 1.B.

TABLE B: SUBMITTALS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite
Permit Number: 03100001 - 004

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

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 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
Fugitive Control Plan	due 60 days after 05/19/1997 . The plan should be an updated version of the fugitive emissions control plan submitted to the agency in 1994.	Total Facility
Notification	due 10 days after Cease Operation of the total suspended particulate matter ambient air monitoring network. The notification letter shall be sent to the Compliance Tracking Coordinator.	Total Facility
Performance Test Notification (written)	due 30 days before Initial Performance Test	SV001, SV002, SV003
Performance Test Plan	due 30 days before Initial Performance Test	SV001, SV002, SV003
Performance Test Report - Microfiche Copy	due 105 days after Initial Performance Test	SV001, SV002, SV003
Performance Test Report	due 45 days after Initial Performance Test	SV001, SV002, SV003
Relative Accuracy Test Audit (RATA) Notification	due 30 days before CEMS Relative Accuracy Test Audit (RATA)	SV001, SV002, SV003

TABLE B: RECURRENT SUBMITTALS

04/17/02

Facility Name: Rainy River Energy Corp - Taconite

Permit Number: 03100001 - 004

What to send	When to send	Portion of Facility Affected
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 05/19/1997 (Submit Deviations Reporting Form DRF-1 as amended). The EER's shall indicate all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdowns, and malfunctions.	SV001, SV002, SV003
Relative Accuracy Test Audit (RATA) Results Summary	due 30 days after end of each calendar quarter following CEMS Relative Accuracy Test Audit (RATA) .	SV001, SV002, SV003
CEMS Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar half-year following CEMS Cylinder Gas Audit (CGA)	SV001, SV002, SV003
COMS Calibration Error Audit Results Summary	due 30 days after end of each calendar half-year following COMS Calibration Error Audit	SV001, SV002, SV003
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 05/19/1997 . The first report covers January 1 - June 30. The second report covers July 1 - December 31.	Total Facility
Compliance Certification	due 30 days after end of each calendar year starting 05/19/1997 . The report covers all deviations experienced during the previous calendar year.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year starting 05/19/1997 (April 1). The Report shall be submitted on a form approved by the Commissioner	Total Facility
Performance Test Notification (written)	due 30 days before end of each 60 months following Initial Performance Test (30 days before each Performance Test)	SV002
Performance Test Notification (written)	due 30 days before end of each 60 months following Initial Performance Test (30 days before each Performance Test).	SV001
Performance Test Plan	due 30 days before end of each 60 months following Initial Performance Test (30 days before each Performance Test)	SV001
Performance Test Plan	due 30 days before end of each 60 months following Initial Performance Test (30 days before each Performance Test)	SV002
Performance Test Report - Microfiche Copy	due 105 days after end of each 60 months following Initial Performance Test (105 days after each Performance Test)	SV001
Performance Test Report - Microfiche Copy	due 105 days after end of each 60 months following Initial Performance Test (105 days after each Performance Test)	SV002
Performance Test Report	due 45 days after end of each 60 months following Initial Performance Test (45 days after end of each Performance Test)	SV001
Performance Test Report	due 45 days after end of each 60 months following Initial Performance Test (45 days after end of each Performance Test)	SV002

Mr. Tim Hagley
Rainy River Energy Corporation – Taconite Harbor
30 West Superior Street
Duluth, MN 55802

RE: Administrative Amendment Request

Dear Mr. Hagley:

The enclosed permit, Air Emission Permit No. 03100001-004, authorizes operation of your facility located at Taconite Harbor-U.S. Highway 61, Schroeder, Cook County, Minnesota.

This amendment incorporates an extension to a performance test deadline for SV 003 in the permit by a maximum of 365 days. The amendment is effective from the issuance date of the amendment until the expiration date of your Title V permit (April 7, 2004). This letter corrects the date contained in a previous letter to you.

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.

Sincerely,

Ann M. Foss
Major Facilities Section Manager
Majors and Remediation Division

AMF:lh

Enclosure

cc: Robert Miller, U.S. Environmental Protection Agency, Chicago
Bob Beresford, MPCA, Duluth Regional Office
AQD File No. 48A