

**AIR EMISSION PERMIT NO. 06100001- 005**

**IS ISSUED TO**

**BLANDIN PAPER COMPANY  
&  
Minnesota Power**

**Blandin Paper Company**  
115 Southwest First Street,  
Grand Rapids, MN 55744-3662

**Minnesota Power**  
Blandin Energy Center  
502 Third Street Northwest  
Grand Rapids, MN 55744

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**

Total Facility Operating Permit  
Minor Amendment  
Administrative Amendment  
Administrative Amendment  
Major Amendment & Administrative Amendment  
Major Amendment  
Administrative Amendment  
MPCA-initiated Major Amendment

**Application Date**

April 17, 1995  
October 25, 1999  
January 28, 2000  
February 1, 2000  
February 22, 2000  
April 23, 2001  
June 10, 2003  
January 21, 2004

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; Pt 70 / PSD

**Issue Date:** June 14, 1999      **Major Amendment: Issue Date: June 22, 2004**

**Expiration:** June 14, 2004  
All Title I Conditions do not expire.

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

For      Sheryl A. Corrigan  
Commissioner  
Minnesota Pollution Control Agency

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## **NOTICE TO THE PERMITTEE:**

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	(651) 296-6300
Outside Metro Area	1-800-657-3864
TTY	(651) 282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194. Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

## **PERMIT SHIELD:**

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

## **FACILITY DESCRIPTION:**

Blandin Paper Company (Blandin) & Minnesota Power operates a groundwood pulp and paper facility in Grand Rapids, Minnesota. Blandin operates the pulp and paper mill itself while Minnesota Power operates the on-site steam and electricity production facility.

In the Fall of 1999, Blandin and Minnesota Power began negotiations for the purchase, by Minnesota Power, of certain steam and electric production facilities located at the Blandin site. Effective March 1, 2000, the two parties signed an Agreement resulting in Minnesota Power operating the purchased facilities, using Minnesota Power employees, and then selling steam and electricity back to Blandin.

The facility was initially built and began operation under the name Itasca Paper Company in 1902. In 1933 the company became Blandin Paper Company and in 1997 the plant was purchased by the UPM Kymmene Group based in Finland and the plant name was changed to Blandin Paper Company a Member of the UPM Kymmene Group. Blandin produces groundwood pulp and combines it with purchased kraft pulp to produce paper of advertising supplement, catalog, and magazine quality. Raw materials used to produce the paper include wood, clay, starch, and pigments.

The main contributing air emission sources at the plant consist of four boilers (two natural gas-fired units and two wood/coal-fired units), a Pressurized Groundwood (PGW) mill, four paper machines, and four coater/dryers. Blandin has a potential-to-emit (PTE) of greater than 250 tons per year for all criteria pollutants except lead and thus is a major source under the federal Prevention of Significant Deterioration (PSD) program. The two wood/coal boilers are subject to New Source Performance Standard (NSPS) Subpart D and the two new, natural gas boilers installed in 2000 are subject to NSPS Subpart Db. These two new natural gas boilers replaced two existing natural gas boilers. The facility is a major Hazardous Air Pollutant (HAP) source and is thus subject to any applicable requirements within the National Emission Standards for Hazardous Air Pollutants (NESHAP) program.

The paper machines, PGW, coater/dryers, and the existing natural gas-fired boilers are all uncontrolled sources. The main power boilers (the wood/coal-fired units) are controlled by high efficiency electrostatic precipitators. The new natural gas boilers are equipped with low-nitrogen oxide burners and flue gas re-circulation.

This amendment concerns a “backwards” federal PSD analysis for the PGW mill and #6 paper machine at the facility.

On April 6, 1988 Blandin received an air emissions permit amendment (Amendment No. 6 to Air Emissions Permit No. 636A-84-OT-1) which authorized modification of the facility, including the installation of a new PGW mill, and # 6 paper machine and coater. The permit was issued as a non-major modification under PSD for Volatile Organic Compound (VOC) emissions. PSD review was now conducted for VOC emissions from these emission units. The results of the Best Available Control Technology analysis is the application of a Regenerative Thermal Oxidizer (RTO) to the PGW mill, and no control for the # 6 paper machine or the #6 coater.

An unrelated item that will be changed is updating the modeling requirements that were implemented in the original Title V permit. The MPCA policy on the subject has recently changed.

**Permit Action 004:** This permit action is for a 120-day extension to the deadline for submittal of the computer dispersion modeling results. Results will now be due 1,582 days after permit issuance instead of 1,462 days after permit issuance in accordance with Minn. R. 7007.1400, subp. 1, H.

**Permit Action 005 (MPCA-initiated Major Amendment):**

This permit action is an MPCA-initiated major amendment under Minn. R. 7007.1600, subp. 1(D). It changes the minimum allowable temperature for EU015 (afterburner) from 1600 degrees Fahrenheit to 1450 degrees Fahrenheit as a result of performance testing.

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.**

Subject Item:	Total Facility
What to do	Why to do it
A. OPERATIONAL REQUIREMENTS	hdr
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Comply with Fugitive Emission Control Plan (submitted August 12, 1999, and as amended): The Permittee shall follow the actions and record keeping specified in the control plan. The plan may be amended by the Permittee with the Agency's approval. If the Agency determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors as requested by the Agency.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Comply with the O&M Plan (submitted October 12, 1999, and as amended): Follow the actions and record keeping specified in the O&M plan. The plan may be amended with the Agency's written approval.	Minn. R. 7007.0800, subp. 14; Minn. R. 7007.0800, subp. 16(J)
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 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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
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
B. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. ch. 7017
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as specified by Minn. R. 7017.2025 following formal review of a subsequent performance test on the same unit.	Minn. R. 7017.2025
C. MONITORING REQUIREMENTS	hdr
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, unless otherwise specified in Tables A and/or B.	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)
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, 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)
D. RECORDKEEPING REQUIREMENTS	hdr
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
<b>E. REPORTING REQUIREMENTS</b>	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
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
<b>F. MISCELLANEOUS</b>	hdr
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
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
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)
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

<p>The Permittee may be required to submit a Risk Management Plan (RMP) under the federal rule, 40 CFR pt. 68. Each owner or operator of a stationary source, at which a regulated substance is present above a threshold quantity in a process, shall design and implement an accidental release prevention program. The RMPs must be submitted to a centralized location as specified by US EPA. RMP submittal information may be obtained at <a href="http://www.epa.gov/swercepp">http://www.epa.gov/swercepp</a> or by calling 1-800-424-9346. These requirements must be complied with no later than the latest of the following dates: (1) June 21, 1999; (2) Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or (3) The date on which a regulated substance is first present above a threshold quantity in a process.</p>	<p>40 CFR pt. 68</p>
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**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item: GP 001 Paper Machines/Pressurized Groundwood Mills**

- Associated Items:** EU 007 Paper Machine #3  
 EU 008 Paper Machine #4  
 EU 009 Paper Machine #5  
 EU 010 Paper Machine #6  
 EU 015 Pressurized Groundwood Mill  
 SV 006  
 SV 007  
 SV 008  
 SV 009  
 SV 010  
 SV 011  
 SV 012  
 SV 013 PM6 No. 1 Dryer Ex (44-0713)  
 SV 014 PM6 No. 2 Dryer Ex (44-0714)  
 SV 015 PM6 No. 3 Dryer Ex (44-0715)  
 SV 035 PGW Main Stack (29-0707)  
 SV 038 PGW Disc Thickener (29-0700)  
 SV 039 PGW Bleach Press Ex (29-0703)  
 SV 040 PGW General Chest Ex (29-0708)  
 SV 041 PGW Grinder Air Lock  
 SV 042 PM6 No. 1 Former Ex (44-0734)  
 SV 043 PM6 No. 2 Former Ex (44-0736)  
 SV 044 PM6 No. 3 Former Ex (44-0735)  
 SV 045 PM6 No. 4 Former Ex (44-2430)  
 SV 046 PM6 Press Ex Fan (44-0745)  
 SV 047 PM6 Vacuum Pump Ex (44-0218)  
 SV 048 PM6 Vacuum Roll Ex (44-0744)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. 7011.0735.	Minn. R. 7011.0710, subp. 1.A.
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (this opacity limit applies to equipment installed prior to 1969 and thus applies to EU 007 and EU 008).	Minn. R. 7011.0710, subp. 1.B.
Opacity: less than or equal to 20 percent opacity (this opacity limit applies to equipment installed after 1969 and thus applies to EU 009 and EU 010).	Minn. R. 7011.0715, subp. 1.B.
Periodic Monitoring: the Permittee shall maintain proper maintenance of the paper machines (EU 007 through EU 010) and the pressurized groundwood mills (EU 015) so as to prevent excessive amounts of particulate matter from being emitted from the stack/vents listed above under Associated Items.	Minn. R. 7007.0800, subp. 4
Temperature: greater than or equal to 110 degrees F using 365-day Rolling Average for the process water exiting the combined heat recovery system for No.'s 3 & 4 paper machines (EU 007 and EU 008), the heat recovery system for No. 5 paper machine (EU 009), the heat recovery system for No. 6 paper machine (EU 010), and the heat recovery system for the PGW mill (EU 015).	Title I Condition: 40 CFR Section 52.21 to avoid classification as a major modification under PSD
Operating Hours: greater than or equal to 76 hours/day using 365-day Rolling Average for all four heat recovery units combined.	Title I Condition: 40 CFR Section 52.21 to avoid classification as a major modification
Monitoring and Record Keeping: the Permittee shall monitor and record daily the heat recovery system outlet water temperature and the hours of operation on all four heat recovery systems.	Minn. R. 7007.0800, subp. 4, Minn. R. 7007.0800, subp. 5



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

<p>Annual Energy Audit and Report: the Permittee shall perform an annual audit of the four heat exchange systems to determine if the total steam conservation achieved is at least 34 MMBtu/hour. The testing shall be performed by an independent contractor during the third quarter of each year. If the audit does not show the 34 MMBtu/hour steam conservation, a permit amendment application shall be submitted within 120 days of the audit.</p>	<p>Title I Condition: 40 CFR Section 52.21 to avoid classification as a major modification</p>
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**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center  
 Permit Number: 06100001 - 005

**Subject Item: GP 002 Coaters/Dryers**

- Associated Items:** EU 011 Coater/Dryer #3  
 EU 012 Coater/Dryer #4  
 EU 013 Coater/Dryer #5  
 EU 014 Coater/Dryer #6  
 SV 016  
 SV 017  
 SV 018  
 SV 019  
 SV 020  
 SV 021  
 SV 022  
 SV 023  
 SV 024  
 SV 025  
 SV 026  
 SV 027  
 SV 028  
 SV 029  
 SV 030  
 SV 031  
 SV 032  
 SV 033  
 SV 034

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.3 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. 7011.0735.	Minn. R. 7011.0710, subp. 1.A.
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity (this opacity limit applies to equipment installed prior to 1969 and thus applies to EU 011 and EU 012).	Minn. R. 7011.0710, subp. 1.B.
Opacity: less than or equal to 20 percent opacity (this opacity limit applies to equipment installed after 1969 and thus applies to EU 013 and EU 014).	Minn. R. 7011.0715, subp. 1.B.
Periodic Monitoring: the Permittee shall maintain proper maintenance of the coater/dryers (EU 011 through EU 014) so as to prevent excessive amounts of particulate matter from being emitted from the stack/vents listed above under Associated Items.	Minn. R. 7007.0800, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item: GP 003 Solid Fuel Power Boilers**

- Associated Items:** CE 001 Electrostatic Precipitator - High Efficiency  
 CE 002 Electrostatic Precipitator - High Efficiency  
 CE 003 Centrifugal Collector - High Efficiency  
 CE 004 Centrifugal Collector - High Efficiency  
 EU 003 Boiler #5  
 EU 004 Boiler #6  
 MR 004 Boiler 5  
 MR 005 Boiler 5  
 MR 006 Boiler 5  
 MR 007 Boiler 6  
 MR 008 Boiler 6  
 MR 009 Boiler 6  
 SV 003

What to do	Why to do it
<b>A. POLLUTANT LIMITS</b>	hdr
Total Particulate Matter: less than or equal to 0.1 lbs/million Btu heat input (this limit applies individually to each emission unit listed above under Associated Items).	40 CFR Section 60.42(a)(1)
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 27 percent opacity (this limit applies individually to each emission unit listed above under Associated Items).	40 CFR Section 60.42(a)(2)
Sulfur Dioxide: less than or equal to 1.2 lbs/million Btu heat input using 3-hour Rolling Average (this limit applies individually to each emission unit listed above under Associated Items).	40 CFR Section 60.43(a)(2)
Nitrogen Oxides: less than or equal to 0.7 lbs/million Btu heat input using 3-hour Rolling Average (this limit applies individually to each emission unit listed above under Associated Items).	40 CFR Section 60.44(a)(3)
Carbon Monoxide: less than or equal to 1300 parts per million on a dry, 8-hour discrete average basis (this limit applies individually to each emission unit listed above under Associated Items).	Minn. Stat. Section 116.07, subp. 4a and Minn. R. 7007.0800, subp. 2
<b>B. OPERATIONAL REQUIREMENTS</b>	hdr
Fuels Allowed: the Permittee shall only combust wood waste (includes creosote treated railroad ties, waste paper, and paper roll fiber cores), western subbituminous coal, and on-site generated waste (includes petroleum derived waste oil/sorbents and ignitable-only solvents) in EU 003.	Minn. R. 7007.0800, subp. 2
<b>C. PERFORMANCE TESTING REQUIREMENTS</b>	hdr
Performance Test: due before 60 months starting 06/14/1999 to measure particulate matter and carbon monoxide emissions from EU 003 and EU 004 operating simultaneously and venting through SV 003. The tests shall be conducted at an interval not to exceed 60 months between test dates.	Minn. R. 7017.2020, subp. 1
Performance Test Notification (written): due 30 days before each performance test.	Minn. R. 7017.2030, subp. 1
Performance Test Plan: due 30 days before each performance test	Minn. R. 7017.2030, subp. 2 and 3
Performance Test Pre-Test Meeting: due 7 days before each Performance Test	Minn. R. 7017.2030, subp. 4
Performance Test Report: due 45 days after each Performance Test	Minn. R. 7017.2035, subp. 1
Performance Test Report - Microfiche Copy: due 105 days after each Performance Test	Minn. R. 7017.2035, subp. 2
<b>D. CONTINUOUS EMISSIONS MONITORING</b>	hdr
Emissions Monitoring: The owner or operator shall use a COMS to measure opacity emissions from SV003.	Minn. R. 7017.1000, subp. 1; 40 CFR Section 60.45(a)
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; 40 CFR Section 60.13(e)
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 60, Appendix B.	Minn. R. 7017.1000; 40 CFR Section 60.13(d)(2)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

COMS Calibration Error Audit: due before end of each half-year following COMS Certification Test Conduct three point calibration error audits at least 3 months apart but no greater than 8 months apart.	Minn. R. 7017.1210, subp. 3
COMS Calibration Error Audit Results Summary: due 30 days after end of each calendar half-year following COMS Calibration Error Audit.	Minn. R. 7017.1220
COMS Monitoring Data: Owners or operators of all COMS shall reduce all data to 6 minute averages. Opacity averages shall be calculated from all equally spaced consecutive 10-second (or shorter) data points in the 6 minute averaging period.	Minn. R. 7007.0800, subp. 2; 40 CFR Section 60.13(e)(1); 40 CFR Section 60.13(h)
Recordkeeping: The owner or operator must retain records of all COMS and CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130
Emissions Monitoring: The owner or operator shall use NOx and SO2 CEMS to measure NOx and SO2 emissions from EU003 and EU 004.	Minn. R. 7017.1000, subp. 1
Cylinder Gas Audit: due before end of each calendar half-year starting 06/14/1999 . 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. 7017.1170, subp. 4
Cylinder Gas Audit (CGA) Results Summary: due 30 days after end of each calendar half-year following Cylinder Gas Audit (CGA)	Minn. R. 7017.1180, subp. 1
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year starting 06/14/1999 for the monitors on EU 003 and EU 004. 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. 7017.1170, subp. 5
Relative Accuracy Test Audit (RATA) Notification: due 30 days before CEMS RATA.	Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Results Summary: due 30 days after end of each quarter year in which the CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3
Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment.  Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	Minn. R. 7017.1090, subp. 1

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item: GP 004 Natural Gas Boilers 7 and 8**

**Associated Items:** EU 016 Boiler #7

EU 017 Boiler #8

What to do	Why to do it
<p>Fuel Usage: less than or equal to 3695.3 million cubic feet/year using 365-day Rolling Sum (combined fuel usage limit for Boilers 7 and 8) except that for the first 365 days of operation the limit is defined by the following equation, calculated every 30 days:</p> $N \leq 400 + 9.028n$ <p>Where "N" is the applicable fuel usage limit (millions of cubic feet) at day "n" since startup of either Boiler 7 or Boiler 8, whichever is first.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000. To avoid classification as a major modification under NSR</p>
<p>Recordkeeping: The Permittee shall maintain daily records of the amount of natural gas combusted in each boiler.</p>	<p>Minn. R. 7007.0800, subp. 5</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item:** EU 015 Pressurized Groundwood Mill

- Associated Items:** CE 012 Direct Flame Afterburner w/Heat Exchanger  
 GP 001 Paper Machines/Pressurized Groundwood Mills  
 SV 035 PGW Main Stack (29-0707)  
 SV 038 PGW Disc Thickener (29-0700)  
 SV 039 PGW Bleach Press Ex (29-0703)  
 SV 040 PGW General Chest Ex (29-0708)  
 SV 041 PGW Grinder Air Lock

What to do	Why to do it
LIMITS	hdr
<p>Required Control Equipment: The Permittee shall operate and maintain a Regenerative Thermal Oxidizer (RTO) to control emissions from the General Chest (SV 040) and Grinder Air Lock vents (SV 041) anytime the PGW grinders are grinding wood, and/or screening and cleaning operations are occurring.</p> <p>Report all excess emissions during a malfunction condition, and take actions to reduce emissions, according to Minn. R. 7019.1000.</p>	<p>Title I Condition: 40 CFR Section 52.21 operational and reporting requirement in support of BACT limit; Minn. R. 7007.3000; Minn. R. 7019.1000</p>
<p>Volatile Organic Compounds: greater than or equal to 90 percent destruction efficiency or less than or equal to 0.081 lb VOC (as C)/ton of bone-dry pulp from the General Chest (SV 040) and Grinder Air Lock vents (SV 041). The Permittee shall operate and maintain the RTO such that it continuously achieves these limits.</p>	<p>Title I Condition: 40 CFR Section 52.21 BACT limit; Minn. R. 7007.3000</p>
MONITORING REQUIREMENTS	hdr
<p>Temperature: greater than or equal to 1600 degrees F using 3-hour Rolling Average in the combustion chamber unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the average temperature recorded during the most recent MPCA approved performance test where compliance was demonstrated. If the 3-hour rolling average temperature drops below the minimum temperature limit, the VOC emitted during that time shall be considered uncontrolled until the average minimum temperature is once again achieved. This shall be reported as a deviation.</p>	<p>Title I Condition: 40 CFR Section 52.21 monitoring requirement in support of BACT limit; Minn. R. 7007.3000</p>
<p>Corrective Action: If the 3-hour rolling average combustion chamber temperature falls below the minimum required value, take corrective action, as outlined in the facility Operation and Maintenance Plan, to restore the temperature to the minimum required value. Make a record of all temperature deviations and corrective actions taken.</p>	<p>Title I Condition: 40 CFR Section 52.21 monitoring requirement in support of BACT limit; Minn. R. 7007.3000</p>
<p>Monitoring Equipment: The Permittee shall install and maintain monitoring equipment necessary for measuring the temperature as required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever the RTO is required to be operated.</p>	<p>Minn. R. 7007.0800, subp. 4</p>
<p>The Permittee shall maintain and operate a thermocouple monitoring device that continuously indicates and records the RTO combustion chamber temperature. 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 3-hour rolling average combustion chamber temperature.</p>	<p>Minn. R. 7007.0800, subp. 4</p>
<p>The Permittee shall maintain a continuous hard copy readout or computer file of the temperature readings and calculated 3-hour rolling average temperatures for the RTO combustion chamber.</p>	<p>Minn. R. 7007.0800, subp. 5</p>
<p>Daily Monitoring: The Permittee shall physically check the temperature recording device, and make a record, at least once each operating day to verify that it is working and recording properly.</p>	<p>Minn. R. 7007.0800, subp. 4</p>
<p>Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment internal and external system components specified in the Operation and Maintenance Plan for the facility. The Permittee shall maintain a written record of the inspections and any corrective actions taken resulting from the inspections.</p>	<p>Minn. R. 7007.0800, subps. 2, 5, 14</p>
<p>Annual Calibration: The Permittee shall calibrate the temperature monitor at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.</p>	<p>Minn. R. 7007.0800, subps. 2, 5, 14</p>
CONSTRUCTION SCHEDULE	hdr
<p>Start Of Construction: due 180 days after 03/13/2002 on the RTO.</p>	<p>Title I Condition: 40 CFR Section 52.21 operational requirement in support of BACT limit; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

Initial Startup: due 300 days after Start Of Construction on the RTO.	Title I Condition: 40 CFR Section 52.21 operational requirement in support of BACT limit; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
PERFORMANCE TESTING	hdr
Initial Performance Test: due 120 days after Initial Startup of the RTO. The performance test must use current EPA reference test methods and need not include methane emissions as part of VOC emissions.	Title I Condition: 40 CFR Section 52.21 testing requirement in support of BACT limit; Minn. R. 7007.3000; Minn. R. 7017.2020, subp. 1
Performance Test Pre-test Meeting: due 7 days before Performance Test	Minn. R. 7017.2030, subp. 4

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item:** EU 016 Boiler #7

**Associated Items:** CE 006 Modified Furnace or Burner Design

CE 008 Flue Gas Recirculation

GP 004 Natural Gas Boilers 7 and 8

MR 010 Boiler 7

MR 011 Boiler 7

SV 036

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
<p>Nitrogen Oxides: less than or equal to 0.040 lbs/million Btu heat input using 365-day Rolling Average . A new 365-day rolling average shall be calculated each steam generating unit operating day as the average of all the hourly nitrogen oxides emission data for the preceding 365 calendar days. This standard applies at all times including periods of startup, shutdown and malfunction except that during the first 365 days after startup of EU016 the following applies:</p> <p>Beginning with the start of the performance test for nitrogen oxides required by 40 CFR Section 60.8, emissions data relating to the 0.040 lb/mmBtu emission limit for nitrogen oxides shall be calculated on a 30-day rolling average basis using the same data reduction procedure required for the limit in 40 CFR Section 60.44b(l). The 365-day rolling average procedure shall apply starting on the 365th day following startup of EU016.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000. To avoid classification as a major modification under NSR.</p>
<p>Nitrogen Oxides: less than or equal to 0.20 lbs/million Btu heat input using 30-day Rolling Average . A new 30-day rolling average shall be calculated each steam generating unit operating day as the average of all the hourly nitrogen oxides emission data for the preceding 30 steam generating unit operating days. This standard applies at all times including periods of startup, shutdown and malfunction.</p>	<p>Title I Condition: 40 CFR Section 60.44b(l); Minn. R. 7011.0565</p>
<p>Carbon Monoxide: less than or equal to 11.2 lbs/hour . This standard applies at all times including periods of startup, shutdown and malfunction.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000. To avoid classification as a major modification under NSR.</p>
B. REPORTING & RECORDKEEPING REQUIREMENTS	hdr
<p>Recordkeeping: The permittee shall record and maintain records of the amounts of each fuel combusted during each operating day. In addition, the permittee shall maintain records of the operational data listed in 40 CFR 60.49b(g).</p>	<p>40 CFR Section 60.49b(d)&amp;(g); Minn. R. 7011.0565</p>
C. PERFORMANCE TESTING REQUIREMENTS	hdr
<p>Performance Test: due 180 days after Initial Startup or within 60 days of achieving maximum operating rate, whichever is sooner, to determine Nitrogen Oxides emissions using the CEMS as described in 40 CFR 60.46b(e)(1).</p>	<p>Title I Condition: 40 CFR Section 60.8; 40 CFR Section 60.46b(e); Minn. R. 7011.0565; Minn. R. 7017.2020, subp. 1</p>
<p>Initial Performance Test: due 180 days after Initial Startup of EU016 to measure carbon monoxide emissions. The carbon monoxide test shall be conducted at the lowest achievable low load condition that is representative of normal operation.</p>	<p>Title I Condition: Minn. R. 7017.2020, subp. 1</p>
<p>Performance Test Notification (Written): due 30 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 1</p>
<p>Performance Test Plan: due 30 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 2</p>
<p>Performance Test Pretest Meeting: due 7 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 4</p>
<p>Performance Test Report: due 45 days after each performance test</p>	<p>Minn. R. 7017.2035, subp. 1 &amp; 2</p>
<p>Performance Test Report - Microfiche Copy: due 105 days after each performance test</p>	<p>Minn. R. 7017.2035, subp. 2</p>
D. CONTINUOUS EMISSION MONITORING REQUIREMENTS	hdr
<p>CEMS Installation: Install, calibrate, maintain and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system.</p>	<p>Title I Condition: 40 CFR Section 60.48b(b); Minn. R. 7011.0565;Minn. R. 7017.1006</p>
<p>Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. Data is recorded during calibration checks, and zero and span adjustments. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. The 1-hour average emission rates shall be expressed in lb/mmBtu and the span value for the CEMS shall be 210 ppm.</p>	<p>40 CFR Section 60.48b(c)-(e); Minn. R. 7011.0565; 40 CFR Section 60.13(e); Minn. R. 7017.1090, subp. 1</p>



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

When nitrogen oxides emissions data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained using standby procedures to provide emissions data for a minimum of 75% of operating hours in each steam generating unit operating day, in at least 22 of 30 successive steam generating unit operating days.	40 CFR Section 60.48b(f); Minn. R. 7011.0565
CEM Certification Test: due 60 days after achieving maximum capacity but not later than 180 days after initial startup of Boiler #7.	40 CFR Section 60.13(b); Minn. R. 7011.0565; Minn. R. 7017.1050, subp. 1
CEMS Certification Test Pretest Meeting: due 7 days before CEMS Certification Test.	Minn. R. 7017.1060, subp. 3
CEMS Certification Test Plan: due 30 days before CEMS Certification Test.	40 CFR Section 60.7(a)(5); Minn. R. 7017.1060, subp. 1 & 2
CEMS Certification Test Report: due 45 days after CEMS Certification Test.	Minn. R. 7017.1080, subp. 1, 2, & 4; 40CFR 60.13(c)(2)
CEMS Certification Test Report - Microfiche Copy: due 105 days after CEMS Certification Test.	Minn. R. 7017.1080, subp. 3
CEMS QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40CFR 60, App. F, section 3.	Minn. R. 7017.1170, subp. 2; 40 CFR Part 60, Appendix F, Section 3
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR part 60, Appendix F, Section 5.1.1; Minn. R. 7017.1170, subp. 5
Relative Accuracy Test Audit (RATA) Notification: due 30 days before each CEMS RATA.	Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Results Summary: due 30 days after end of each calendar quarter in which the CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3; 40 CFR Part 60, Appendix F, Section 1
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) 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.	40 CFR Part 60, Appendix F, Section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
CEMS Cylinder Gas Audit (CGA): due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Part 60, Appendix F, Section 5.1.2; Minn. R. 7017.1170, subp. 4
Cylinder Gas Audit (CGA) Results Summary: due 30 days after end of each calendar quarter following Cylinder Gas Audit (CGA).	Minn. R. 7017.1180, subp. 1; 40 CFR Part 60, Subp. Db; Minn. R. 7011.0565; 40 CFR Part 60, Appendix F, Section 1; Minn. R. 7017.1180, subp. 1
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130; 40 CFR Section 60.7(f)
Records of Startup, Shutdown, or Malfunction: Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

**Subject Item: EU 017 Boiler #8**

**Associated Items:** CE 007 Modified Furnace or Burner Design

CE 009 Flue Gas Recirculation

GP 004 Natural Gas Boilers 7 and 8

MR 012 Boiler 8

MR 013 Boiler 8

SV 037

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
<p>Nitrogen Oxides: less than or equal to 0.040 lbs/million Btu heat input using 365-day Rolling Average . A new 365-day rolling average shall be calculated each steam generating unit operating day as the average of all the hourly nitrogen oxides emission data for the preceding 365 calendar days. This standard applies at all times including periods of startup, shutdown and malfunction except that during the first 365 days after startup of EU017 the following applies:</p> <p>Beginning with the start of the performance test for nitrogen oxides required by 40 CFR Section 60.8, emissions data relating to the 0.040 lb/mmBtu emission limit for nitrogen oxides shall be calculated on a 30-day rolling average basis using the same data reduction procedure required for the limit in 40 CFR Section 60.44b(l). The 365-day rolling average procedure shall apply starting on the 365th day following startup of EU017.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000. To avoid classification as a major modification under NSR.</p>
<p>Nitrogen Oxides: less than or equal to 0.20 lbs/million Btu heat input using 30-day Rolling Average . A new 30-day rolling average shall be calculated each steam generating unit operating day as the average of all the hourly nitrogen oxides emission data for the preceding 30 steam generating unit operating days. This standard applies at all times including periods of startup, shutdown and malfunction.</p>	<p>Title I Condition: 40 CFR Section 60.44b(l); Minn. R. 7011.0565.</p>
<p>Carbon Monoxide: less than or equal to 11.2 lbs/hour . This standard applies at all times including periods of startup, shutdown and malfunction.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000. To avoid classification as a major modification under NSR.</p>
B. REPORTING & RECORDKEEPING REQUIREMENTS	hdr
<p>Recordkeeping: The permittee shall record and maintain records of the amounts of each fuel combusted during each operating day. In addition, the permittee shall maintain records of the operational data listed in 40 CFR 60.49b(g).</p>	<p>40 CFR Section 60.49b(d)&amp;(g); Minn. R. 7011.0565.</p>
C. PERFORMANCE TESTING REQUIREMENTS	hdr
<p>Performance Test: due 180 days after Initial Startup or within 60 days of achieving maximum operating rate, whichever is sooner, to determine Nitrogen Oxides emissions using the CEMS as described in 40 CFR 60.46b(e)(1).</p>	<p>Title I Condition: 40 CFR Section 60.8; 40 CFR Section 60.46b(e)); Minn. R. 7011.0565; Minn. R. 7017.2020, subp. 1</p>
<p>Initial Performance Test: due 180 days after Initial Startup of EU016 to measure carbon monoxide emissions. The carbon monoxide test shall be conducted at the lowest achievable low load condition that is representative of normal operation.</p>	<p>Title I Condition: Minn. R. 7017.2020, subp. 1</p>
<p>Performance Test Notification (Written): due 30 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 1</p>
<p>Performance Test Plan: due 30 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 2</p>
<p>Performance Test Pretest Meeting: due 7 days before each performance test</p>	<p>Minn. R. 7017.2030, subp. 4</p>
<p>Performance Test Report: due 45 days after each performance test</p>	<p>Minn. R. 7017.2035, subp. 1 &amp; 2</p>
<p>Performance Test Report - Microfiche Copy: due 105 days after each performance test</p>	<p>Minn. R. 7017.2035, subp. 2</p>
D. CONTINUOUS EMISSION MONITORING REQUIREMENTS	hdr
<p>CEMS Installation: Install, calibrate, maintain and operate a continuous monitoring system for measuring nitrogen oxides emissions discharged to the atmosphere and record the output of the system.</p>	<p>Title I Condition: 40 CFR Section 60.48b(b)); Minn. R. 7011.0565; Minn. R. 7017.1006</p>
<p>Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. Data is recorded during calibration checks, and zero and span adjustments. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. The 1-hour average emission rates shall be expressed in lb/mmBtu and the span value for the CEMS shall be 210 ppm.</p>	<p>40 CFR Section 60.48b(c)-(e); Minn. R. 7011.0565; 40 CFR Section 60.13(e); Minn. R. 7017.1090, subp. 1</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

When nitrogen oxides emissions data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained using standby procedures to provide emissions data for a minimum of 75% of operating hours in each steam generating unit operating day, in at least 22 of 30 successive steam generating unit operating days.	40 CFR Section 60.48b(f)); Minn. R. 7011.0565
CEM Certification Test: due 60 days after achieving maximum capacity but not later than 180 days after initial startup of Boiler #7.	40 CFR Section 60.13(b)); Minn. R. 7011.0565; Minn. R. 7017.1050, subp. 1
CEMS Certification Test Pretest Meeting: due 7 days before CEMS Certification Test.	Minn. R. 7017.1060, subp. 3
CEMS Certification Test Plan: due 30 days before CEMS Certification Test.	40 CFR Section 60.7(a)(5); Minn. R. 7017.1060, subp. 1 & 2
CEMS Certification Test Report: due 45 days after CEMS Certification Test.	Minn. R. 7017.1080, subp. 1, 2, & 4; 40CFR Section 60.13(c)(2)
CEMS Certification Test Report - Microfiche Copy: due 105 days after CEMS Certification Test.	Minn. R. 7017.1080, subp. 3
CEMS QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40CFR 60, App. F, section 3.	Minn. R. 7017.1170, subp. 2; 40 CFR Part 60, Appendix F, Section 3
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following CEM Certification Test. Follow the procedures in 40 CFR pt. 60, Appendix F.	40 CFR Part 60, Appendix F, Section 5.1.1; Minn. R. 7017.1170, subp. 5
Relative Accuracy Test Audit (RATA) Notification: due 30 days before each CEMS RATA.	Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Results Summary: due 30 days after end of each calendar quarter in which the CEMS RATA was conducted.	Minn. R. 7017.1180, subp. 3; 40 CFR Part 60, Appendix F, Section 1
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) 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.	40 CFR Part 60, Appendix F, Section 4.1; 40 CFR Section 60.13(d)(1); Minn. R. 7017.1170, subp. 3
CEMS Cylinder Gas Audit (CGA): due before end of each calendar quarter following CEM Certification Test but in no more than three calendar quarters per calendar year. The RATA shall be conducted during the calendar quarter in which a CGA is not performed.	40 CFR Part 60, Appendix F, Section 5.1.2; Minn. R. 7017.1170, subp. 4
Cylinder Gas Audit (CGA) Results Summary: due 30 days after end of each calendar quarter following Cylinder Gas Audit (CGA).	Minn. R. 7017.1180, subp. 1; 40 CFR Part 60, Subp. Db); Minn. R. 7011.0565; 40 CFR Part 60, Appendix F, Section 1; Minn. R. 7017.1180, subp. 1
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130; 40 CFR Section 60.7(f)
Records of Startup, Shutdown, or Malfunction: Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60.7(b)

**TABLE B: SUBMITTALS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center  
Permit Number: 06100001 - 005

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send any application for a permit or permit amendment to:

Permit Technical Advisor  
Permit Section  
Air Quality Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

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

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

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

Supervisor  
Compliance Determination Unit  
Air Quality Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak  
Air and Radiation Branch  
EPA Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Send submittals that are required by the Acid Rain Program to:

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

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

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Computer Dispersion Modeling Information	due 1,096 days after 06/14/1999 (1,096 days after issuance of Title V permit) for SO2 and NOx. This data will include information specified in MPCA modeling guidance for Modeling Information Requests. This modeling information is for data collection purposes, no modeling analysis is required at this time. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Protocol	due 1,096 days after 06/14/1999 (1,096 days after issuance of Title V permit) for PM-10. This protocol will describe the proposed modeling methodology and input data, in accordance with MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Computer Dispersion Modeling Results	due 1,582 days after 06/14/1999 (1,582 days after issuance of Title V permit) for PM-10. To be submitted after the MPCA has reviewed and approved the modeling protocol, and should adhere to MPCA modeling guidance for Title V air dispersion modeling analyses. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Total Facility
Notification of the Actual Date of Initial Startup	due 14 days after Initial Startup on the RTO.	EU015
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup	EU016, EU017
Notification of the Date Construction Began	due 14 days after Start Of Construction on the RTO.	EU015
Notification of the Date Construction Began	due 30 days after Start Of Construction	EU016, EU017
Notification	due 15 days after achieving maximum capacity of Boiler #7.	EU016
Notification	due 15 days after achieving maximum capacity of Boiler #8.	EU017
Notification	due 60 days before Initial Startup of the Monitor. 60 days before installing the continuous emissions monitoring system for NOx, submit a notification that shall include plans and drawings of the system.	EU016, EU017
Performance Test Notification (written)	due 30 days before Performance Test	EU015
Performance Test Plan	due 30 days before Performance Test	EU015
Performance Test Report - Microfiche Copy	due 105 days after Performance Test	EU015
Performance Test Report	due 45 days after Performance Test	EU015
Testing Frequency Plan	due 60 days after Initial Performance Test for VOC emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, or 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU015
Testing Frequency Plan	due 90 days after Initial Performance Test for carbon monoxide. Testing frequency can be every 1, 3 or 5 years depending on the proximity to the emission limit and as defined in the current MPCA guidance document.	EU016, EU017

**TABLE B: RECURRENT SUBMITTALS**

06/24/04

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001 - 005

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 06/14/1999 for the monitors on EU 003 and EU 004 (Submit Deviations Reporting Form DRF-1 as amended). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	GP003
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 07/31/2000 (Submit Deviations Reporting Form DRF-1 as amended). The EER must contain all of the information requested in 40 CFR60.7(c). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	EU016
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 07/31/2000 (Submit Deviations Reporting Form DRF-1 as amended). The EER must contain all of the information requested in 40 CFR60.7(c). The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	EU017
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 06/14/1999 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 06/14/1999 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner, and to the U.S. EPA regional office in Chicago. This report covers all deviations experienced during the calendar year. The EPA copy shall be sent to: Mr. George Czerniak, Chief, Air Enforcement and Compliance Assurance Branch, Air and Radiation Division, EPA Region V, 77 West Jackson Boulevard, Chicago, Illinois 60604.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year starting 06/14/1999 (April 1). To be submitted on a form approved by the Commissioner.	Total Facility

APPENDIX MATERIAL

Facility Name: Blandin Paper/Rapids Energy Center

Permit Number: 06100001-005

**Insignificant Activities List**

M.R. 7007.1300, subp. 3 - Insignificant Activities Required to be Listed

- A. Fuel Use: Space heaters fueled by kerosene, natural gas, or propane:
  - A#1 Space heater with a total maximum capacity of 20 MMBtu/hr
  - A#2 Several natural gas fired space heaters used for comfort heat only.
  
- D. Finishing Operations: Equipment vented inside a building used for buffing, polishing, carving, cutting, drilling, machining, routing, sanding sawing, surface grinding, or turning of ceramic precision parts, leather, metals, plastics, masonry, carbon, wood, or glass, provided that emissions from the equipment are:
  - a. filtered through an air cleaning system; and
  - b. vented inside of the building 100% of the time
  - D#1 Paper Trimmers
  
- E. Storage tanks:
  - 2. Non-hazardous air pollutant VOC storage tanks with a combines total tankage capacity not more than 10,000 gallons of non-hazardous air pollutant VOC's and with a vapor pressure of not more than 1.0 psia at 60 degrees F.

FACILITY NUMBER	LOCATION	CONTENTS	SIZE (GAL)	SECONDARY CONTAINMENT	COLOR
<b>MAIN MILL</b>					
26	Main	#1 Dye Run Tank	225	Bldg	Silver
27	Main	#2 Dye Run Tank	225	Bldg	Silver
28	Main	#3 Dye Run Tank	225	Bldg	Silver
29	Main	#4 Dye Run Tank	225	Bldg	Silver
31	Bsmt	Kerosene	92	Bldg	Green
<b>NO. 5 PAPER MACHING BUILDING</b>					
16	Grd Flr	Kerosene	92	Bldg	Green
18	Mez	Ret. Aid Make Down	1982	Bldg	Silver
19	Mez	#1 Dye Make Down	360	Bldg	Silver
20	Mez	#2 Dye Make Down	360	Bldg	Silver
21	Opr Flr	Ret. Aid Tank		Bldg	Silver
<b>COATING PREP</b>					
6	Bsmt	Latex	20000	Bldg	Silver
7	Bsmt	Latex	20000	Bldg	Silver
22	Mez	#3 Starch Mix-Top	800	Bldg	Gray
23	Mez	#3 Starch Mix-Wire	700	Bldg	Gray
24	Mez	#3 Clay Mix-Top	1100	Bldg	Gray
25	Mez	#3 Clay Mix-Wire	1100	Bldg	Gray
26	Mez	#3 Cook Tank-Top	1100	Bldg	Gray
27	Mez	#3 Cook Tank-Top	1100	Bldg	Gray
28	Mez	#3 Stor. Tank-Top	1200	Bldg	Gray
29	Mez	#3 Stor. Tank-Top	1100	Bldg	Gray
30	Mez	#4 Starch Mix-Top	400	Bldg	Gray

31	Mez	#4 Starch Mix-Wire	400	Bldg	Gray
32	Mez	#4 Clay Mix-Top	1100	Bldg	Gray
33	Mez	#4 Clay Mix-Wire	1100	Bldg	Gray
34	Mez	#4 Cook Tank-Top	1100	Bldg	Gray
35	Mez	#4 Cook Tank-Wire	1100	Bldg	Gray
36	Mez	#4 Stor. Tank-Top	1100	Bldg	Gray
37	Mez	#4 Stor. Tank-Wire	1100	Bldg	Gray
38	Mez	#5 Starch Mix-Top	800	Bldg	Gray
39	Mez	#5 Starch Mix-Wire	800	Bldg	Gray
40	Mez	#5 Clay Mix-Top	1900	Bldg	Gray
41	Mez	#5 Clay Mix-Wire	1900	Bldg	Gray
42	Mez	#5 Cook Tank-Top	1800	Bldg	Gray
43	Mez	#5 Cook Tank-Wire	1800	Bldg	Gray
44	Mez	#5 Stor. Tank-Top	1900	Bldg	Gray
45	Mez	#5 Stor. Tank-Wire	1900	Bldg	Gray
46	Mez	#6 Starch Mix-Top	1800	Bldg	Gray
47	Mez	#6 Starch Mix-Wire	1800	Bldg	Gray
48	Mez	#6 Clay Mix-Top	4000	Bldg	Gray
<b>FACILITY NUMBER</b>	<b>LOCATION</b>	<b>CONTENTS</b>	<b>SIZE (GAL)</b>	<b>SECONDARY CONTAINMENT</b>	<b>COLOR</b>
49	Mez	#6 Clay Mix-Wire	4000	Bldg	Gray
50	Mez	#6 Cook Tank-Top	4000	Bldg	Gray
51	Mez	#6 Cook Tank-Wire	4000	Bldg	Gray
52	Mez	#6 Stor. Tank-Top	4000	Bldg	Gray
53	Mez	#6 Stor. Tank-Wire	4000	Bldg	Gray

#### COOPERAGE

2	Grd Flr	Latex	24000	Bldg	Off-White
3	Grd Flr	Latex	24000	Bldg	Off-White
6	Grd Flr	Ctg Plastic Pigment (Ropaque)	7850	Bldg	Brown
7	Grd Flr	City Plastic Pigment	7850	Bldg	Brown

#### NO. 6 PAPER MACHINE BUILDING

12	Mez	Ret. Make Down	2400	Yes	Silver
17	Opr Flr	Ret. Aid Run Tank	2400	Yes	Silver
21	Opr Flr	Dye Run Tank	750	Yes	Silver
22	Opr Flr	Dye Make Down	500	Yes	Silver
24	Grd Flr	Kerosene	92	Bldg	Yellow

#### G. Emissions from a laboratory, as defined in the form instructions:

G#1 Research Paper Coater – Coating could not be used for production.

#### H. Brazing, soldering, or welding equipment

H#1 Several maintenance welding stations located throughout the facility.

#### I. Individual emission units at a stationary source which each have a potential to emit for each of the following pollutants less than:

- 1) 4000 lbs/year of carbon monoxide



- 2) 2000 lbs/year each of nitrogen oxide, sulfur dioxide, particulate matter, particulate matter less than ten microns, volatile organic compounds (including hazardous air pollutants containing VOC), and ozone.

- I#1 Clay Unload and Convey – Clay is received wet in slurry form and contains a very small amount of VOCs.  
I#2 Log Debarking – all wood is wet.  
I#3 Five – 5000 cfm 400,000 Btu Modine Recirculation Units in Building No. 5 Shipping  
I#4 Ten - 5000 cfm 400,000 Btu Modine Recirculation Units in Kraft Warehouse  
I#5 Natural gas-fired office boiler – 1.9 mmBtu/hr

M.R. 7007.1300, subp. 4 - Insignificant Activities Required to be Listed in a Part 70 Application

Several parts washers used for maintenance activities utilizing solvent containing high flash point solvents

Several makeup air units:

- TM2 Outside - 11 MMBtu/hr
- Calcium Carbonate Bldg. – 3.5 MMBtu/hr
- Building #5 Coater + Shop – 16.85 MMBtu/hr
- Old Powerhouse – 4.3 MMBtu/hr
- Old Powerhouse – 4.3 MMBtu/hr

**TECHNICAL SUPPORT DOCUMENT  
For  
AIR EMISSION PERMIT AMENDMENTS**

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

**1. General Information**

**1.1. Permits Being Amended:**

<b>Permit No.</b>	<b>Owner/Operator Address (if different than facility)</b>	<b>Facility Address</b>
07500019-003	Ms. Barbara Hamilton Plant Environmental Manager Louisiana Pacific Corporation P.O. Box P Two Harbors, MN 55616	Louisiana Pacific Corporation 711 25 <sup>th</sup> Avenue Two Harbors, Lake County, MN 55616
05700002-003	Mr. Peter Aube Plant Manager Potlatch Corporation 50518 County 45 Bemidji, MN 56601	Potlatch – Lumbermill – Bemidji RR3 Bemidji, Hubbard County, MN 56601
06100001-005	Mr. Bill Spreeman Environmental Affairs Manager Blandin Paper Company 115 Southwest First Street Grand Rapids, MN 55744-3699	Blandin Paper/Rapids Energy Center 115 SW 1 <sup>st</sup> St. Grand Rapids, Itasca County, MN 55744

**1.2 Reason for Permit Actions**

These permit amendments are MPCA initiated major amendments under Minn. R. 7007.1600, subp. 1(D) – mandatory reopenings that are needed in order to assure compliance with applicable requirements.

The amendments incorporate new or revised limits into the referenced permits. The limits have been imposed through performance testing under Minn. R. 7017.2025, subp. 3 and are already in affect. The permits must be reopened in order to reflect the revised limits.

These amendments are for all MPCA letters sent between September 29, 2003 and January 21, 2004 that set new limits in Part 70 permits based on performance testing under Minn. R. ch. 7017.

### 1.3 Description of the Activities Allowed By This Permit Action

No additional changes were made to the permits than those described in the Notice of Compliance (NOC) letters.

### 1.4. Change in Emissions

There are no changes in emissions associated with the permit reopenings.

## 2. Regulatory and/or Statutory Basis

The following table shows which permit limits were revised in each permit, as well as the date of the MPCA letter that sets the new limits. See Attachments 1-4 to this TSD for a copy of the letters.

Permit No.	Level*	Old/New Limits	Basis
Louisiana-Pacific Corp. – Two Harbors 07500019-003	EU002	Old: No limit New: Fuel Usage less than or equal to 2522 lb/hr using 12-hr block average of Fuels Allowed (described in subsequent requirement).	January 7, 2004 letter from MPCA implementing Minn. R. 7017.2025, subp. 3.
Potlatch – Lumbermill – Bemidji 05700002-003	GP005	Old: Operate CE002 with no less than the minimum number of electric fields on line during the most recent performance test... New: Operate CE002 with no less than one electric field on line or as determined by the most recent performance test...	September 29, 2003 letter from MPCA implementing Minn. R. 7017.2025, subp. 3.
Blandin Paper/Rapids Energy Center 06100001-005	EU015 (for CE012)	Old: Temperature $\geq$ 1600 °F New: Temperature $\geq$ 1450 °F	January 21, 2004 letter from MPCA implementing Minn. R. 7017.2025, subp. 3.

\*Level -- EU = emission unit, GP = group, TF = total facility, SV = stack/vent, CE = control equipment

## 4. Contact

MCPA Staff Contact for these Permit Actions: Bonnie J. Nelson

### Attachments

- 1 Louisiana Pacific Corporation – Two Harbors: MPCA Performance Test Letters with CD-01 forms reflecting changes
- 2 Potlatch Corporation: MPCA Performance Test Letters with CD-01 forms reflecting changes
- 3 Blandin Paper/Rapids Energy Center: MPCA Performance Test Letters with CD-01 forms with changes

# Attachment 1



## **Attachment 2**



## **Attachment 3**



