

AIR EMISSION PERMIT NO. 06100010- 004

IS ISSUED TO

**Ainsworth Engineered (USA) LLC
Suite 3194 Bentall 4
1055 Dunsmuir Street, PO Box 49307
Vancouver, British Columbia, Canada V7X 1L3**

For

Ainsworth Engineered (USA) LLC - Grand Rapids Facility
502 County Road 63
Grand Rapids, Itasca County, 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 application(s):

Permit Type	Application Date
Total Facility Operating Permit	April 13, 1995; Revised in August 2001
Major Amendment	August 14, 2001
Administrative Amendment	February 4, 2002
Administrative Amendment	August 12, 2002
Administrative Amendment	September 29, 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/Limits to avoid NSR

Administrative Amendment:

Issue Date: December 3, 2001

Issue Date: November 16, 2004

Expiration: December 3, 2006

All Title I Conditions do not expire.

Richard J. Sandberg, Manager
Air Quality Permits Section
Industrial 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 (Permit Action 001):

Potlatch Corporation, Minnesota Wood Products Division, owns and operates an oriented strand board (OSB) manufacturing facility located just west of Grand Rapids on County Road 63 in Itasca County, Minnesota. OSB is a wood panel product widely used in the building industry. The plant is located on an approximately 222 acre site.

An air emission permit was issued in September 1979 for construction of a new plant, which replaced the original plant owned and operated by Blandin Corporation. Potlatch purchased the plant from Blandin Corporation in 1990. This plant was issued a total facility air quality permit under the federal Prevention of Significant Deterioration (PSD) regulations in February 1995.

The air emission units at this facility include four rotary wood wafer dryers, two thermal oil heaters, one board press, and seven wood waste handling operations. The rotary wood wafer dryers are controlled by simple cyclones, wet electrostatic precipitators, and thermal oxidizers. Wood waste handling operations are controlled by fabric filters.

ADMINISTRATIVE AMENDMENT DESCRIPTION (Permit Action 002):

The Federal Part 70 permit issued on December 3, 2001, required the Permittee to conduct Performance Test before March 31, 2002, for North Thermal Oil Heater (EU 005/ SV 003) and South Thermal Oil Heater (EU 006/ SV 004) to determine Opacity, Total Particulate Matter, Particulate Matter <10 microns, Carbon Monoxide, Volatile Organic Compounds and Nitrogen Oxide emissions. On February 4, 2001, the Permittee sent a request to MPCA to obtain a 120-day extension to complete the Performance Testing for EU 005 and EU 006. This request is granted on the basis that the plant will be capable of operating at rated capacity during this future Compliance Test. This permit amendment revised the permit conditions for EU 005 and EU 006 by extending the performance test due date to July 31, 2002.

ADMINISTRATIVE AMENDMENT DESCRIPTION (Permit Action 003):

For the Board Press (EU007), the permit requires that a performance test be conducted within 60 days after commercial introduction of each new non-commodity product to determine site specific emission factors for non-commodity grade product. This amendment extends the deadline to perform a performance test for non-commodity grade product using copper ammonia acetate to 180 days after commercial introduction of any non-commodity grade product using copper ammonia acetate.

ADMINISTRATIVE AMENDMENT DESCRIPTION (Permit Action 004):

This permit action is for a change of ownership at the facility. The new owners are Ainsworth Engineered (USA) LLC (previously owned by Potlatch Corp.).

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 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
<p>Parameters Used in Modeling: The Permittee must submit to the Commissioner for approval any revisions of the parameters (stack heights, emission rates, and other parameters) used in the PSD modeling for Permit No. 06100010-003 and must wait for a written approval before making such changes. The information submitted must include, at a minimum, the locations, heights and diameters of the stacks, locations and dimensions of nearby buildings, the velocity and temperatures of the gases emitted, and the emission rates. The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled previously. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better dispersion characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must remodel.</p>	<p>Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000</p>
<p>For changes that do not involve an increase in an emission rate and that do not require a permit amendment, this proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit.</p> <p>For changes involving increases in emission rates and that require a minor permit amendment, the proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit.</p> <p>For changes involving increases in emission rates and that require a permit amendment other than a minor amendment, the proposal must be submitted with the permit application.</p>	<p>Title I Condition (continued from above)</p>
<p>Property Line Fencing: the Permittee shall maintain the fencing and gates which have previously been installed to enclose the boundaries of the property. The property shall be enclosed with a continuous fence, excluding access points, and shall have installed gates or a guard at each access point, except as described below. The Permittee shall thereafter keep the gates closed unless authorized persons are entering or leaving the property. Access points such as a railroad shall be posted with "No Trespassing" signs. The Permittee shall inspect the fencing and gates once per year to ensure compliance with access control. The Permittee shall complete all repairs and maintenance to the fencing and gates as soon as possible but no later than 30 days after the Permittee observes the need for repair or maintenance.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and shall include a preventative maintenance program for that equipment, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment to proper operation to meet applicable permit conditions, and the records kept to demonstrate plan implementation.</p>	<p>Minn. R. 7007.0800, subp. 14 and Minn. R. 7007.0800, subp. 16(J)</p>
<p>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.</p>	<p>Minn. R. 7011.0150</p>
<p>Fugitive Dust Control Plan: The Permittee shall follow the actions and record keeping specified in the control plan. Amendments to the plan may be proposed by the Permittee and are subject to review and approval by the Commissioner. The plan shall continue to carry forward the control requirements and preventative measures from Section 6.16 of air emission permit 06100010-003 and shall identify all fugitive emission sources, primary and contingent control measures, and record keeping. If the Commissioner determines the permittee is out of compliance with Minn. R. 7011.0150 or the fugitive emission control plan, then the permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors.</p>	<p>Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2</p>
<p>Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A and/or B.</p>	<p>Minn. R. ch. 7017</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

<p>The following U.S. EPA reference methods (as amended) shall be used, with any modifications required by an applicable requirement, when conducting performance tests pursuant to this permit, unless an applicable requirement specifies a different method: Method 5, as amended by Minn. R. 7011.0725, for Total Particulate Matter Methods 201A and 202 for PM10 Method 7 or Method 7E for NOx Method 9 for Opacity Method 10 for Carbon Monoxide Method 25 or Method 25A (with optional Methane correction) for VOC</p> <p>A minor change or an alternative or equivalent method may be approved by the Commissioner in accordance with Minn. R. 7017.2050, subp. 2.</p>	<p>Minn. R. 7007.0800, subp. 2; and Minn. R. 7017.2050, subp. 1</p>
<p>Operating and/or production limits may be placed on emission units based on operating conditions during compliance testing. Limits set as a result of a compliance test (conducted before or after permit issuance) apply until new operating/production limits are set following formal review of a compliance test as specified by Minn. R. 7017.2025.</p>	<p>Minn. R. 7017.2025</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment as described in the Operation and Maintenance Plan.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>Operation of Monitoring Equipment: Unless otherwise noted in Tables A and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>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.</p>	<p>Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)</p>
<p>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.</p>	<p>Minn. R. 7011.0020</p>
<p>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.</p> <p>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.</p>	<p>Minn. R. 7019.1000, subp. 3</p>
<p>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.</p> <p>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.</p>	<p>Minn. R. 7019.1000, subp. 2</p>
<p>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, as defined in Minn. R. 7007.0100, subp. 8a, from permit conditions which could endanger human health or the environment.</p>	<p>Minn. R. 7019.1000, subp. 1</p>
<p>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:</p> <ol style="list-style-type: none"> 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. 	<p>Minn. R. 7019.1000, subp. 1</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

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
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007. 1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350 subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007. 0800, subp. 5(B)
Record keeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080. This is a state only requirement and is not federally enforceable or enforceable by citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095
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 http://www.epa.gov/swercepp 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.	40 CFR pt. 68

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: GP 001 Rotary Wood Wafer Dryers #3 and #4

- Associated Items:** CE 001 Centrifugal Collector - High Efficiency
 CE 002 Centrifugal Collector - High Efficiency
 CE 003 Electrostatic Precipitator - High Efficiency
 CE 004 Direct Flame Afterburner w/Heat Exchanger
 EU 001 Rotary Wood Wafer Dryer #3
 EU 002 Rotary Wood Wafer Dryer #4
 SV 001

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 6.0 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 6.0 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Carbon Monoxide: less than or equal to 5.88 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 8.0 lbs/hour or greater than or equal to 90% destruction efficiency, whichever is less stringent. Destruction efficiency shall be determined by comparing the quantity of emissions from the effluent of the primary cyclones with emissions at SV001.	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 8.0 lbs/hour	Title I Condition: 40 CFR Section 52.21 to remain a non-major source under PSD
Nitrogen Oxides: less than or equal to 8.25 lbs/hour (total from dryers and thermal oxidizer (CE004)).	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1
B. OPERATING REQUIREMENTS AND LIMITS	hdr
Fuel Usage: Limited to (1) dry wood fuel; (2) OSB fuel consisting of treated and clean oriented strand board trim; (3) natural gas; (4) propane; (5) alternate biomass fuels as approved by the MPCA according to the procedures outlined in this permit.	Minn. R. 7007.0800, subp. 2
<p>Biomass Fuel Usage: The permittee may use specific biomass fuels subject to approval from the MPCA. "Biomass" means the materials defined in Minn. Stat. Section 216C.051, Subd. 7, including herbaceous crops, trees, agricultural waste, and aquatic plant matter and excluding mixed municipal solid waste as defined in Minn. Stat. Section 115A.03.</p> <p>For each biomass fuel type the permittee may initiate a trial period consisting of no more than 90 days where that fuel type is combusted. In order to continue operation with this fuel the permittee shall submit a proposal, subject to MPCA written approval, providing details of the new fuel (such as proximate and ultimate analyses), the method of introduction into the combustion chamber and an estimate of the change in emissions of regulated pollutants. If the emissions change is uncertain or if an increase in emissions is indicated, the permittee shall include a schedule for performance testing in the proposal.</p>	Minn. R. 7007.0800, subp. 2
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the cyclones (CE001 and CE002), wet electrostatic precipitator (CE003), and the thermal oxidizer (CE004) associated with the emission units described above under Associated Items. The Permittee shall operate the wet electrostatic precipitator (CE003) associated with these emission units with no less than the number of fields on-line as during the most recent performance test that has shown compliance with the particulate matter limit standards described for this Group.	Title I Condition: 40 CFR 52.21; to obtain PSD BACT limits
Temperature: greater than or equal to 1541 degrees F using 3-hour Rolling Average at the combustion chamber of CE004 until a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the average chamber temperature recorded during the most recent performance test where compliance for VOC emissions was demonstrated. For the first three hours after CE004 startup, the continuous average chamber temperature shall be used instead of the 3-hour rolling average basis.	Title I Condition: 40 CFR 52.21; Minn. R. 7017.2025, subp. 3; monitoring for BACT limit
Record Keeping: Once each day while in operation the Permittee shall monitor and record the quench water flow rate and number of electric fields that are on or off in CE003. The average combustion chamber temperature of CE004 shall be continuously recorded on a 3-hour rolling average basis.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Performance Test: due 1825 days after 12/03/2001 and every five years thereafter to determine total particulate matter, particulate matter < 10 micron, opacity, carbon monoxide, volatile organic compounds and nitrogen oxides emissions from SV001. The interval between performance tests shall be no greater than 60 months.	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for PSD BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: GP 002 Rotary Wood Wafer Dryers #5 and #6

- Associated Items:** CE 005 Centrifugal Collector - High Efficiency
 CE 006 Centrifugal Collector - High Efficiency
 CE 007 Electrostatic Precipitator - High Efficiency
 CE 008 Direct Flame Afterburner w/Heat Exchanger
 EU 003 Rotary Wood Wafer Dryer #5
 EU 004 Rotary Wood Wafer Dryer #6
 SV 002

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 6.0 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 6.0 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Carbon Monoxide: less than or equal to 5.88 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 8.0 lbs/hour or greater than or equal to 90% destruction efficiency, whichever is less stringent. Destruction efficiency shall be determined by comparing the quantity of emissions from the effluent of the primary cyclones with emissions at SV002.	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 8.0 lbs/hour	Title I Condition: 40 CFR Section 52.21 to remain a non-major source under PSD
Nitrogen Oxides: less than or equal to 8.25 lbs/hour (total from dryers and thermal oxidizer (CE008)).	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1
B. OPERATING REQUIREMENTS AND LIMITS	hdr
Fuels Usage: Limited to (1) dry wood fuel; (2) OSB fuel consisting of treated and clean oriented strand board trim; (3) natural gas; (4) propane	Minn. R. 7007.0800, subp. 2
<p>Biomass Fuel Usage: The permittee may use specific biomass fuels subject to approval from the MPCA. "Biomass" means the materials defined in Minn. Stat. Section 216C.051, Subd. 7, including herbaceous crops, trees, agricultural waste, and aquatic plant matter and excluding mixed municipal solid waste as defined in Minn. Stat. Section 115A.03.</p> <p>For each biomass fuel type the permittee may initiate a trial period consisting of no more than 90 days where that fuel type is combusted. In order to continue operation with this fuel the permittee shall submit a proposal, subject to MPCA written approval, providing details of the new fuel (including proximate and ultimate analyses), the method of introduction into the combustion chamber and an estimate of the change in emissions of regulated pollutants. If the emissions change is uncertain or if an increase in emissions is indicated, the permittee shall include a schedule for performance testing in the proposal.</p>	Minn. R. 7007.0800, subp. 2
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the cyclones (CE005 and CE006), wet electrostatic precipitator (CE007), and the thermal oxidizer (CE008) associated with the emission units described above under Associated Items. The Permittee shall operate the wet electrostatic precipitator (CE007) associated with these emission units with no less than the number of fields on-line as during the most recent performance test that has shown compliance with the particulate matter limit standards described for this Group.	Title I Condition: 40 CFR 52.21; to obtain PSD BACT limits
Temperature: greater than or equal to 1540 degrees F using 3-hour Rolling Average at the combustion chamber of CE008 until a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the average chamber temperature recorded during the most recent performance test where compliance for VOC emissions was demonstrated. For the first three hours after CE008 startup, the continuous average chamber temperature shall be used instead of the 3-hour rolling average basis.	Title I Condition: 40 CFR 52.21; Minn. R. 7017.2025, subp. 3; monitoring for BACT limit
Record Keeping: Once each day while in operation the Permittee shall monitor and record the quench water flow rate and number of electric fields that are on or off in CE007. The average combustion chamber temperature of CE008 shall be continuously recorded on a 3-hour rolling average basis.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Performance Test: due 1825 days after 12/03/2001 and every five years thereafter to determine total particulate matter, particulate matter < 10 micron, opacity, carbon monoxide, volatile organic compounds and nitrogen oxides emissions from SV002. The interval between performance tests shall be no greater than 60 months.	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for PSD BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 005 North Thermal Oil Heater

Associated Items: SV 003

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.014 lbs/million Btu heat input . Compliance with this limit meets the requirements of the less stringent limit in Minn. R. 7011.0515.	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 0.014 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Carbon Monoxide: less than or equal to 0.10 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 0.0028 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Nitrogen Oxides: less than or equal to 0.30 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING LIMITS	hdr
Fuels Usage: Limited to (1) natural gas; (2) propane	40 CFR 52.21; modeling assumption
Fuel Usage: less than or equal to 4850 actual cubic feet/minute using 12-hour Average . This limit is amended whenever a performance test is conducted on this emission unit and the MPCA issues a letter verifying the test results, pursuant to Minn. R. 7017.2025, subp. 3.	Minn. R. 7017.2025, subp. 3
Record Keeping: The permittee shall record the amount of each type of fuel combusted and calculate two twelve hour block averages for each operating day by totaling total fuel usage during each twelve period and dividing by the total operating time during that period. Periods of downtime of 15 or minutes shall not be counted as operating time.	Minn. R. 7007.0800, subp. 5; Minn. R. 7017.2025, subp. 3a
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 07/31/2002 and every five years thereafter to determine opacity, total particulate matter, particulate matter<10 microns, carbon monoxide, volatile organic compounds and nitrogen oxides emissions from SV003	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 006 South Thermal Oil Heater

Associated Items: SV 004

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.014 lbs/million Btu heat input . Compliance with this limit meets the requirements of the less stringent limit in Minn. R. 7011.0515.	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 0.014 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Carbon Monoxide: less than or equal to 0.10 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 0.0028 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Nitrogen Oxides: less than or equal to 0.30 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING LIMITS	hdr
Fuels Usage: Limited to (1) natural gas; (2) propane	40 CFR 52.21; modeling assumption
Fuel Usage: less than or equal to 4409 actual cubic feet/minute using 12-hour Average . This limit is amended whenever a performance test is conducted on this emission unit and the MPCA issues a letter verifying the test results, pursuant to Minn. R. 7017.2025, subp. 3.	Minn. R. 7017.2025, subp. 3
Record Keeping: The permittee shall record the amount of each type of fuel combusted and calculate two twelve hour block averages for each operating day by totaling total fuel usage during each twelve period and dividing by the total operating time during that period. Periods of downtime of 15 or minutes shall not be counted as operating time.	Minn. R. 7007.0800, subp. 5; Minn. R. 7017.2025, subp. 3a
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 07/31/2002 and every five years thereafter to determine opacity, total particulate matter, particulate matter<10 microns, carbon monoxide, volatile organic compounds and nitrogen oxides emissions from SV004	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 007 Board Press

Associated Items: SV 005

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 24.5 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 24.5 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 45.0 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Volatile Organic Compounds: less than or equal to 165 tons/year using 365-day Rolling Sum	Title I Condition: 40 CFR Section 52.21 to remain a non-major source under PSD
Carbon Monoxide: less than or equal to 4.50 lbs/hour	Title I Condition: 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING LIMITS	hdr
VOC Emission Factor: the Permittee shall use site generated VOC emission factors and daily press production to determine daily VOC emissions. In the absence of site specific emission factors, the Permittee shall, subject to MPCA approval, use factors published in EPA's AP-42, factors developed by trade organizations or other recognized industry-specific emission factors. The Permittee will submit proposed emission factors to the Agency at least 60 days prior to a requested effective date for using these values.	Title I Condition: 40 CFR Section 52.21 to remain a non-major source under PSD
VOC emissions calculations: once each calendar day, the Permittee shall calculate total VOC emissions from EU007 using the equation in Appendix B of this permit. There will be one emission factor used for commodity grade OSB and individual emission factors for any non-commodity grade product.	Minn. R. 7007.0800, subp. 4(B)
Record Keeping: the Permittee shall record total VOC emissions from EU007 once each calendar day.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due before 04/30/2006 and every five years thereafter to determine total particulate matter, particulate matter<10 microns and volatile organic compounds from SV005 while producing commodity grade product.	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
Performance Test: due 60 days after commercial introduction of each new non-commodity product and every five years thereafter to determine site specific emission factors for non-commodity grade product. The interval between performance tests shall not exceed 60 months for each non-commodity grade product. U.S. EPA Method 25 shall be used unless the Permittee and the Agency agree that an alternate method would give equivalent results. "Commercial introduction" means the first production run started to meet orders for the product.	Title I Condition: 40 CFR Section 52.21 to remain a non-major source under PSD
Performance Test Deadline Extension: The deadline to perform a performance test to determine a site specific emission factor for non-commodity grade product using copper ammonia acetate is extended to 180 days after commercial introduction of any non-commodity grade product using copper ammonia acetate.	Minn. R. 7007.1400, subp. 1(H)
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 008 System 23: Unhogged Raw Fuel System

Associated Items: CE 009 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 016 Centrifugal Collector - Medium Efficiency

SV 006

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.57 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 0.57 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU008 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV006 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 1,825 days after Performance Test on SV0012 or SV017, whichever is sooner, and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV006	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 009 System 24: Fuel Preparation System

Associated Items: CE 010 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 017 Centrifugal Collector - Medium Efficiency

SV 007

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.32 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 0.32 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU009 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV007 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 365 days after 12/03/2001 and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV007.	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 010 System 28: Blending/Forming System

Associated Items: CE 011 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 018 Centrifugal Collector - Medium Efficiency

SV 008

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 1.40 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 1.40 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU010 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV008 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 1825 days after 12/03/2001 and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV008.	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 011 System 29: Flying Cutoff Saw System

Associated Items: CE 012 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 019 Centrifugal Collector - Medium Efficiency

SV 009

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 1.30 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 1.30 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU011 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV009 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 365 days after 12/03/2001 and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV009	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 012 System 17: Wafer Storage System

Associated Items: CE 013 Fabric Filter - Low Temperature, i.e., T<180 Degrees F
SV 010

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 0.73 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 0.73 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU012 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV010 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 730 days after 12/03/2001 and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV010	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 013 System 30: Trim Saw System

Associated Items: CE 014 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 020 Centrifugal Collector - Medium Efficiency

SV 011

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 1.70 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 1.70 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU013 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV011 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 1,825 days after Performance Test on SV008 and every five years thereafter to determine opacity, total particulate matter and particulate matter<10 microns from SV011	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 014 System 33: Board Finishing System

Associated Items: CE 015 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 021 Centrifugal Collector - Medium Efficiency

SV 012

What to do	Why to do it
A. POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 1.50 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Particulate Matter < 10 micron: less than or equal to 1.50 lbs/hour and less than or equal to 0.0050 gr/dscf.	Title I Condition: 40 CFR Section 52.21(m) (modeling assumption) and 40 CFR Section 52.21(j) (BACT)
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
B. OPERATING AND MONITORING REQUIREMENTS	hdr
Air Pollution Control Equipment Requirements: the Permittee shall maintain operation of the fabric filter whenever EU014 is in operation.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Observation: the Permittee shall observe the emissions from SV012 (during daylight hours) for visible emissions of particulate matter once each day while in operation. The observers are not required to be Method 9 certified opacity readers.	Title I Condition: 40 CFR 52.21; BACT for PM, PM10
Visible Emissions Corrective Actions: If visible emissions (VEs) are observed the Permittee shall determine the cause and take corrective actions as soon as possible to eliminate the VEs.	Minn. R. 7007.0800, subp. 2
Visible Emissions Recordkeeping: the Permittee shall record the time and date of each VE inspection, and whether or not any VEs were observed. If VEs were observed, the Permittee shall record a brief description of the type of corrective actions taken, and the date the actions were taken.	Minn. R. 7007.0800, subp. 5
C. PERFORMANCE TESTING REQUIREMENTS	hdr
Performance Test: due 730 days after 12/03/2001 and every five years thereafter to determine total particulate matter and particulate matter<10 microns from SV012	Title I Condition: 40 CFR 52.21 and Minn. R. 7017.2020, subp. 1; Monitoring for BACT limit
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 and 2
Performance Test Report - Microfiche Copy: due 60 days after the deadline for submittal of the test report.	Minn. R. 7017.2035, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

Subject Item: EU 015 Diesel Fire Pump**Associated Items: SV 013**

What to do	Why to do it
Opacity: less than or equal to 20 percent once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input	Minn. R. 7011.2300, subp. 2
Fuel Usage: Limited to distillate fuel oil.	Minn. R. 7007.0800, subp. 2

TABLE B: SUBMITTALS

11/17/04

Facility Name: Potlatch - Grand Rapids
Permit Number: 06100010 - 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

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 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
Computer Dispersion Modeling Information	due 1096 days after 12/03/2001 . Submit modeling data as specified in MPCA guidance for Modeling Information Requests for PM10. 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
Operation and Maintenance Plan	due 90 days after 12/03/2001 , summarizing the operation and maintenance for all listed pollution control equipment. The plan shall include the manufacturer's recommended operation ranges for parameters such as pressure drop across the system, liquid flow rate, liquid supply pressure, etc; corrective action procedures to be followed to return the control equipment to within specified range(s); corrective action procedures to be followed in the event of a malfunction or breakdown; a description of inspection procedures to be followed; and records kept to demonstrate plan implementation.	Total Facility

TABLE B: RECURRENT SUBMITTALS

11/17/04

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010 - 004

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 12/03/2001 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 12/03/2001 (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.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year starting 12/03/2001 (April 1). To be submitted on a form approved by the Commissioner.	Total Facility

APPENDIX MATERIAL

Facility Name: Potlatch - Grand Rapids

Permit Number: 06100010-004

Appendix B – VOC Emissions Calculation for EU007

The following equation shall be used for calculating VOC emissions from EU007:

$$N = \left(\sum_i^n EF_i \frac{lbVOC}{TFP} \times P_i \frac{TFP}{day} \right) \times \frac{1ton}{2000lbVOC}$$

Where: N is the total VOC emissions from EU007 for a calendar day (tons VOC/day);

EF_i is the approved VOC emission factor for a given product;

P_i is the press production of that product for that day; and

TFP is tons of finished product, the measurement unit of press production

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 06100010-004

This technical support document is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp.1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the determination to issue the permit.

1. General Information

1.1. Applicant and Stationary Source Location:

Applicant/Address	Stationary Source/Address (SIC Code: 2493)
Ainsworth Engineered (USA) LLC Suite 3194 Bentall 4 1055 Dunsmuir Street, PO Box 49307 Vancouver, BC Canada V7X 1L3	Ainsworth Engineered (USA) LLC - GR 502 County Road 63 Grand Rapids, MN, Itasca County
Contact: Mr. Nick Ausman, Plant Manager Phone: (218) 327-3650	Contact located at facility address

1.2. Description of the Permit Action

An administrative amendment application was received September 29, 2004 in accordance with Minn. R. 7007.1400, subp. 1(B) to request a change of ownership for the facility from Potlatch to Ainsworth Engineered (USA) LLC out of Vancouver, British Columbia. A copy of the request for the name change is included in attachment 1 to this TSD.

2. Conclusion

Based on the information provided by Ainsworth Engineered, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 05700005-002 and this technical support document, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Bonnie Nelson (permit writer/engineer)

Attachments: 1. Documentation of name change request.