

**AIR EMISSION PERMIT NO. 05700005- 002**

**IS ISSUED TO**

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

For its

**AINSWORTH ENGINEERED (USA) LLC – BEMIDJI FACILITY**  
29647 US Highway 2 East  
Bemidji, Beltrami County, MN 56601

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):

<u>Permit Type</u>	<u>Application Date</u>
Total Facility Operating Permit	January 30, 2004 (This application supersedes previous applications, including the initial Part 70 Permit Application, dated April 1995)
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/NSR

**Issue Date:** 06/17/2004

**Expiration:** 06/17/2009

All Title I Conditions do not expire.

**Administrative Amendment:**

**Issue Date: November 18, 2004**

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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 (Total Facility Permit):**

Potlatch Corporation owns and operates an Oriented Strandboard (OSB) manufacturing facility in Hubbard County, Minnesota; the facility is located approximately 10 miles southeast of Bemidji, Minnesota on Hwy. 2. The existing Potlatch Bemidji facility consists of two OSB manufacturing lines. To produce OSB, logs are debarked and reduced into small strands, which are then dried, blended with a phenol-formaldehyde resin and wax mixture, formed into layers, and finally pressed into wood panels. Line 1 consists of four wood-strand triple pass rotary dryers heated with exhaust from two wood dust suspension burners, two hogged fuel boilers providing backup steam to the process, and one board press. Line 2 consists of three wood-strand triple pass rotary dryers heated with exhaust from a wood-fired thermal oil heater, and one board press. Various handling, finishing, and forming processes are also part of Line 1 and Line 2. The Bemidji facility also operates a wood-fired cogeneration boiler that provides steam to the Line 1 press, log ponds, some building heat and supplies electricity to the power grid.

The Facility is an existing major source under Federal New Source Review regulations. The Facility is also a major source of Hazardous Air Pollutant (HAP) emissions.

The pollution control equipment and main pollutants of concern from the emission units at the facility are as follows: the Line 1 rotary dryers and associated burners are sources of Particulate Matter (PM and PM<sub>10</sub>), Volatile Organic Compounds (VOCs), carbon monoxide (CO), and Nitrogen Oxides (NO<sub>x</sub>). The dryers and burners are currently controlled by two Wet Electrostatic Precipitators (WESP) followed by a Regenerative Thermal Oxidizer (RTO) which controls particulate matter, VOCs and CO. The Line 2 dryers are also sources of PM, PM<sub>10</sub>, VOCs, CO and NO<sub>x</sub>. Each dryer is controlled by a WESP (for particulate matter) and a dryer inlet temperature limitation, which serves to limit VOC emissions. The presses are uncontrolled and are primarily sources of VOC, but also particulates. The co-generation boiler is controlled by a cyclone and an ESP for control of particulates and a SNCR for control of NO<sub>x</sub>. The back-up Keeler boilers are sources of PM, PM<sub>10</sub>, VOC, CO and NO<sub>x</sub> and are controlled by multiclones and an EFB; the boilers also have a steam-production limit. The in-plant particulate sources, e.g. the handling, finishing and forming processes, are generally controlled by baghouses. There are also fugitive particulate sources such as bark and fuel piles and paved and unpaved roads.

Potlatch is proposing to modify its mill in a modification that is being incorporated into the Title V permit. Potlatch will install two additional burners on the Line 1 dryer system and will install a thermal oxidizer on the Line 2 dryer system. Installation of the oxidizer will allow Potlatch to remove the temperature limit on the Line 2 dryers previously established as a BACT limit. These modifications will result in increased production for the facility.

**PERMIT ACTION 002 (Administrative Amendment):**

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

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji  
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**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
SOURCE-SPECIFIC REQUIREMENTS	hdr
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.	Minn. R. 7007.0800, subp. 2
Fugitive Dust Control Plan: The Permittee shall follow the actions and recordkeeping specified in the control plan, attached as Appendix D to this permit. Amendments to the plan may be proposed by the Permittee and are subject to review and approval by the Commissioner. 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.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Parameters Used in Modeling: The stack heights, emission rates, and other parameters used in the modeling submitted 12/3/03 are listed in Appendix C of this permit. The Permittee must submit to the Commissioner for approval any revisions of these parameters 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 in the 12/3/03 modeling submittal. 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.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
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.  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.  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.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Report of loss of Clean Unit status: The Permittee shall submit written notification to the MPCA if Clean Unit status is lost due to noncompliance with 40 CFR Section 52.21(y)(9). The permittee shall submit this notification with the Semiannual Deviations Report (see Table B) and also according to the schedule in the permit for "Deviations Endangering Human Health or the Environment" (see Table A, Total Facility Requirements) if applicable. The permittee and the Agency shall attach a copy of the notification to the permit, and the permittee shall submit an application for a permit amendment within 30 days of loss of Clean Unit status.	Title I Condition; 40 CFR Section 52.21(y)(9); Minn. R. 7007.3000
Loss of Clean Unit status occurs if any of the following occur:  - the permittee fails to comply with the emission limit or work practice(s) specified in the permit with the Clean Unit Designation, - the permittee makes any physical or operational change to the Clean Unit that causes the unit to operate in a manner inconsistent with any physical or operational characteristic that is part of the basis for the Clean Unit Designation - the permittee fails to comply with any term in the permit that is related to the Clean Unit Designation.	Title I Condition; 40 CFR Section 52.21(y)(9); Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Loss of Clean Unit status: The Permittee shall submit an application for a major amendment if a modification at a Clean Unit will cause loss of Clean Unit status. The Permittee may not begin actual construction on the modification until the major amendment has been issued. Loss of Clean Unit status occurs when the major amendment is issued or if the permittee begins actual construction on a change to the Clean Unit without obtaining a permit for the change and the change causes a need to change the emission limit or work practices or changes any physical or operational characteristic that is part of the basis for determining that the control is comparable to BACT. The Permittee must use the calculation methodologies specified in 40 CFR Section 52.21(a)(2)(iv) to determine applicability of 40 CFR Section 52.21 for this modification and all subsequent modifications until the unit requalifies for Clean Unit status.	Title I Condition; 40 CFR Section 52.21(y)(2)(iii) and (iv); Minn. R. 7007.3000
<b>OPERATIONAL REQUIREMENTS</b>	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. 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, a description of the employee training program for proper operation and maintenance of the control equipment, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 14 and 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
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
<b>PERFORMANCE TESTING</b>	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
Performance Test Notifications and Submittals:  Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.  Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test  The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. Rs. 7017.2030, subp. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2
Operational 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
<b>MONITORING REQUIREMENTS</b>	hdr
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)

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

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)
<b>RECORDKEEPING</b>	hdr
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)
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)
<b>REPORTING/SUBMITTALS</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
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)
Emission Inventory Report: due 91 days after end of each calendar year following permit issuance (April 1). To be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 through Minn. R. 7019.3100
Emission Fees: due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005 through Minn. R. 7002.0095

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item: GP 001 Line 1 Rotary Dryers**

- Associated Items:**
- CE 001 Centrifugal Collector - High Efficiency
  - CE 002 Centrifugal Collector - High Efficiency
  - CE 003 Centrifugal Collector - High Efficiency
  - CE 004 Centrifugal Collector - High Efficiency
  - CE 043 Wet Electrostatic Precipitator
  - CE 044 Wet Electrostatic Precipitator
  - CE 045 Thermal Oxidizer
  - EU 009 Dryer 1
  - EU 010 Dryer 2
  - EU 011 Dryer 3
  - EU 012 Dryer 4
  - EU 131 Wood-fired suspension burner
  - EU 132 Wood-fired suspension burner
  - EU 134 wood-fired burner
  - EU 135 wood-fired burner
  - SV 001 Line 1 Rotary Dryers

What to do	Why to do it
POLLUTANT LIMITS	hdr
Total Particulate Matter: less than or equal to 12 lbs/hour . This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Total Particulate Matter: less than or equal to 1.13 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 12 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.13 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 18 lbs/hour . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Volatile Organic Compounds: less than or equal to 0.60 lbs/ton of oven dried product (lb/ODT). VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 51 lbs/hour (total from dryers and CE 045).	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 1.88 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 15 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.49 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
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 approved by the MPCA in accordance to the procedures outlined in this permit.	Minn. R. 7007.0800, subp. 2



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

<p>Biomass Fuel Usage: The Permittee may use specific biomass fuel subject to approval from the MPCA. "Biomass" means the materials define 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 type of fuel is combusted. In order to continue operation with this type of fuel, the Permittee shall submit a proposal, subject to MPCA written approval, providing details of the new fuel (such as proximate and ultimate analysis), 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 an increase in emissions is indicated, the Permittee shall include a schedule for performance testing in the proposal.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency (as measured from outlet of cyclones (CE 001-004) to outlet of Thermal Oxidizer (CE 045)) for Volatile Organic Compounds: greater than or equal to 90 percent control efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency (as measured from outlet of cyclones (CE 001-004) to outlet of Thermal Oxidizer (CE 045)) for Total Particulate Matter and Particulate Matter &lt; 10 micron: greater than or equal to 95 percent control efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>Temperature: greater than or equal to 1586 degrees F as a three-hour rolling average at 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 for VOC emissions was demonstrated. For the first three hours after CE 045 startup, the continuous average chamber temperature shall be used instead of the 3-hour rolling average. If the three-hour rolling average temperature, or if the chamber temperature during startup, drops below the minimum temperature limit, this shall be reported as a deviation.</p>	<p>Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>Number of Fields On-line: greater than or equal to 2, for each of CE 043 and CE 044, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the number of fields on-line recorded during the most recent MPCA approved performance test where compliance for PM and/or PM10 emissions was demonstrated. If the number of fields drops below the minimum required anytime that process gases are going through the control equipment, this shall be reported as a deviation.</p>	<p>Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p><b>CONTROL EQUIPMENT</b></p>	<p>hdr</p>
<p>The Permittee shall operate and maintain the cyclones, wet electrostatic precipitators and thermal oxidizer any time that any process equipment controlled by the wet electrostatic precipitator and thermal oxidizer is in operation. The control equipment shall be operated and maintained in accordance with the Operations and Maintenance (O&amp;M) Plan. The Permittee shall keep copies of the O &amp; M Plan available onsite for use by staff and MPCA staff.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14</p>
<p>The Permittee shall maintain a continuous hard copy readout or electronic file of the temperature readings and calculated three hour rolling average temperatures for the combustion chamber of the RTO.</p>	<p>Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Daily Monitoring and Recordkeeping: The Permittee shall physically verify operation of the temperature recording device for the thermal oxidizer at least once each operating day to verify that it is working and recording properly. The Permittee shall also verify the presence of quench water flow for the electrostatic precipitators. The Permittee shall physically verify and record the number of fields on-line at least once during each operating day of operation. The Permittee shall maintain a written record of the verifications.</p>	<p>Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Monitoring Equipment: The Permittee shall install, operate, and maintain thermocouples and a monitoring device for the thermal oxidizer to conduct temperature monitoring required by this permit and to continuously indicate and record the average combustion chamber temperature of the thermal oxidizer. The Permittee shall install, operate, and maintain equipment for determining the number of fields on line for the electrostatic precipitators and for verifying the presence of quench water flow. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.</p>	<p>Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment external system components, including but not limited to the electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.</p>	<p>Minn. R. 7007.0800, subp. 4, 5, and 14</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Annual Inspections: At least once per calendar year, the Permittee shall inspect the control equipment internal components, which for the thermal oxidizer shall include, but not be limited to, the refractory and heat exchanger systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate the monitoring equipment at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: If the temperature is below the minimum specified by this permit, if the number of fields on line are below the minimum specified by this permit, or if the thermal oxidizer or electrostatic precipitators or any of their components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum, shall return the number of fields on line to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the appropriate control equipment. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
CLEAN UNIT DESIGNATION	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for PM, PM10, VOCs and CO provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000
Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for determining that the unit's control technology is comparable to BACT: 1. Heat Input Capacities: Burners, with a total heat input of 140 mmBtu/hr 2. Maximum annual throughput of 262,800 ODT/yr 3. Operation of 2 WESPs and RTO	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000
Recordkeeping: - Production rate: Once each calendar day of operation, the Permittee shall calculate and record the production of ODT for the previous twenty-four hour period. The daily production shall be added to the total daily production calculated for the previous 364 calendar days to calculate a 365-day rolling sum. The 365-day rolling sum shall be recorded daily.	Title I Condition: Monitoring for Clean Unit Designation; Minn. R. 7007.0800, subp. 4 and 5
PERFORMANCE TESTING	hdr
Performance Test: due 365 days after 10/28/2003 to measure Volatile Organic Compound emissions. (Test within 1 year of previous performance test.)	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Initial Performance Test: due 180 days after Initial Startup of new burners (EU 134, EU 135) but no later than 730 days from permit issuance, to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, Carbon Monoxide, and Nitrogen Oxides emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 365 days after Initial Performance Test to determine Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides, and Volatile Organic Compound emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 1,095 days after Initial Performance Test to measure Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides and Volatile Organic Compound emissions. (Test within 3 years of initial performance test.)	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
VOC Performance Tests: Whenever a performance test is conducted to measure VOC emissions, the company shall conduct a performance test for formaldehyde simultaneously with the VOC performance test for the purpose of establishing a correlation between past test procedures and recently established requirements for testing and emission factor development. Results shall be reported on (1) a carbon mass basis based on the Method 25 or 25A data alone; and (2) an "as VOC" basis, summing the Method 25 or 25A data (adjusted to a propane mass basis) and the formaldehyde test result, and correcting the results as described in AP-42 Section 10.6.1.3, dated 3/2002. The carbon mass result will be used for demonstrating compliance with the carbon mass based limit.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item: GP 002 Line 2 Rotary Dryers**

- Associated Items:** CE 023 Centrifugal Collector - High Efficiency  
 CE 024 Centrifugal Collector - High Efficiency  
 CE 025 Centrifugal Collector - High Efficiency  
 CE 046 Wet Electrostatic Precipitator  
 CE 047 Wet Electrostatic Precipitator  
 CE 048 Wet Electrostatic Precipitator  
 CE 049 Thermal Oxidizer  
 EU 019 Dryer 5  
 EU 020 Dryer 6  
 EU 021 Dryer 7  
 EU 108 Wellons Heat Source  
 SV 002 Line 2 Rotary Dryers

What to do	Why to do it
Total Particulate Matter: less than or equal to 12 lbs/hour . This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Total Particulate Matter: less than or equal to 0.86 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 12 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.77 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0610, subp. 1(A)(2)
Volatile Organic Compounds: less than or equal to 13 lbs/hour . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Volatile Organic Compounds: less than or equal to 0.44 lbs/ton of oven dried product (lb/ODT). VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 15 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 1.8 lbs/ton of oven dried product (lb/ODT).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 54 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.40 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Fuel Usage: Limited to (1) dry wood fuel; (2) wood bark fuel; (3) OSB fuel consisting of treated and clean oriented strand board trim; (4) natural gas; (5) propane; (6) alternate biomass fuels approved by the MPCA in accordance to the procedures outlines in the permit.	Minn. R. 7007.0800, subp. 2
Biomass Fuel Usage: The Permittee may use specific biomass fuel subject to approval from the MPCA. "Biomass" means the materials define 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.  For each biomass fuel type, the Permittee may initiate a trial period consisting of no more than 90 days where that type of fuel is combusted. In order to continue operation with this type of fuel, the Permittee shall submit a proposal, subject to MPCA written approval, providing details of the new fuel (such as proximate and ultimate analysis), 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 an increase in emissions is indicated, the Permittee shall include a schedule for performance testing in the proposal.	Minn. R. 7007.0800, subp. 2
OPERATING REQUIREMENTS AND LIMITS	hdr

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

<p>Temperature: less than or equal to 860 degrees F using 3-hour Rolling Average Inlet temperature shall not exceed 860 degrees F, unless a new maximum 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 for VOC emissions was demonstrated. If the three-hour rolling average temperature goes above the maximum temperature limit, this shall be reported as a deviation.</p> <p>This limit applies only until the startup of CE 049.</p>	<p>Title I Condition: Temperature limit taken as BACT (40 CFR Section 52.21(j)); Minn. R. 7007.3000</p>
<p>The Permittee shall maintain a continuous hard copy readout or electronic file of the temperature readings and calculated three hour rolling average temperatures for the dryers inlet temperature.</p> <p>This requirement applies only until the startup of CE 049.</p>	<p>Title I Condition: Monitoring for BACT limits; Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Production: less than or equal to 45000 lbs/hour using 30-day Rolling Average of oven-dried strands.</p> <p>This limit applies only until the startup of CE 049.</p>	<p>Title I Condition: 40 CFR Section 52.21(m); Minn. R. 7007.3000</p>
<p>Daily Recordkeeping. On each day of operation, the Permittee shall calculate and record the Line 2 dryers daily strand production and the 30-day rolling average for the previous 30 days.</p> <p>This limit applies only until the startup of CE 049.</p>	<p>Title I Condition: Monitoring for BACT Limit (40 CFR 52.21 and Minn. R. 7007.3000); Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Temperature: greater than or equal to 1525 degrees F using 3-hour Rolling Average as a three-hour rolling average at 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 for VOC emissions was demonstrated. For the first three hours after CE 049 startup, the continuous average chamber temperature shall be used instead of the 3-hour rolling average. If the three-hour rolling average temperature, or the startup chamber temperature, drops below the minimum temperature limit, this shall be reported as a deviation. This limit applies after the initial startup of CE 049.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency (as measured from outlet of cyclones to outlet of thermal oxidizer) for Volatile Organic Compounds: greater than or equal to 90 percent control efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency (as measured from outlet of cyclones to outlet of thermal oxidizer) for Total Particulate Matter and Particulate Matter &lt; 10 micron: greater than or equal to 95 percent control efficiency</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14</p>
<p>Number of Fields On-line: greater than or equal to 2, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the number of fields on-line recorded during the most recent MPCA approved performance test where compliance for PM and/or PM10 emissions was demonstrated. If the number of fields drops below the minimum required anytime that process gases are going through the control equipment, this shall be reported as a deviation.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2</p>
<p><b>CONTROL EQUIPMENT</b></p>	<p>hdr</p>
<p>The Permittee shall operate and maintain the cyclones (CE 023, CE 024, CE 025), wet electrostatic precipitators (CE 046, CE 047, CE 048) and thermal oxidizer (CE 049) any time that any process equipment controlled by the wet electrostatic precipitator and thermal oxidizer is in operation. The control equipment shall be operated and maintained in accordance with the Operations and Maintenance (O &amp; M) Plan. The Permittee shall keep copies of the O &amp; M Plan available onsite for use by staff and MPCA staff.</p>	<p>Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14</p>
<p>The Permittee shall maintain a continuous hard copy readout or electronic file of the temperature readings and calculated three hour rolling average temperatures for the temperature of the combustion chamber of the RTO.</p>	<p>Title I Condition: Monitoring for BACT limits; Minn. R. 7007.0800, subp. 4 and 5</p>
<p>Daily Monitoring and Recordkeeping: The Permittee shall physically verify operation of the temperature recording device for the thermal oxidizer at least once each operating day to verify that it is working and recording properly. The Permittee shall also verify the presence of quench water flow for the electrostatic precipitators. The Permittee shall physically verify and record the number of fields on-line at least once during each operating day of operation. The Permittee shall maintain a written record of the verifications.</p>	<p>Minn. R. 7007.0800, subp. 4 and 5</p>

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Monitoring Equipment: The Permittee shall install, operate, and maintain thermocouples and a monitoring device for the thermal oxidizer to conduct temperature monitoring required by this permit and to continuously indicate and record the average combustion chamber temperature of the thermal oxidizer. The Permittee shall install, operate, and maintain equipment for determining the number of fields on line for the electrostatic precipitators and for verifying the presence of quench water flow. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4 and 5
Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment external system components, including but not limited to the electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Inspections: At least once per calendar year, the Permittee shall inspect the control equipment internal components, which for the thermal oxidizer shall include, but not be limited to, the refractory and heat exchanger systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate the monitoring equipment at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: If the temperature is below the minimum specified by this permit, if the number of fields on line are below the minimum specified by this permit, or if the thermal oxidizer or electrostatic precipitators or any of their components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the temperature to at least the permitted minimum, shall return the number of fields on line to at least the permitted minimum and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the appropriate control equipment. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
CLEAN UNIT DESIGNATION	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for PM, PM10, VOCs and CO provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on startup of the RTO (CE 049) and expires 10 years after that date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000
Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for determining that the unit's control technology is comparable to BACT: 1. Heat Input Capacities: Total heat input of 135 mmBtu/hr 2. Maximum annual throughput of 262,800 ODT/yr, on a 365-day rolling sum basis 3. Operation of WESP and RTO	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000
Recordkeeping - Production rate: Once each calendar day of operation, the Permittee shall calculate and record the production of ODT for the previous twenty-four hour period. The daily production shall be added to the total daily production calculated for the previous 364 calendar days to calculate a 365-day rolling sum. The 365-day rolling sum shall be recorded daily.	Title I Condition: Monitoring for Clean Unit Designation; Minn. R. 7007.0800. subp. 4 and 5
PERFORMANCE TESTING	hdr
Initial Performance Test: due 270 days after Initial Startup of the RTO, but no later than 910 days (2 1/2 years) from permit issuance, to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, Carbon Monoxide, and Nitrogen Oxides emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 365 days after Initial Performance Test to determine Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides, and Volatile Organic Compound emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
VOC Performance Tests: Whenever a performance test is conducted to measure VOC emissions, the company shall conduct a performance test for formaldehyde simultaneously with the VOC performance test for the purpose of establishing a correlation between past test procedures and recently established requirements for testing and emission factor development. Results shall be reported on (1) a carbon mass basis based on the Method 25 or 25A data alone; and (2) an "as VOC" basis, summing the Method 25 or 25A data (adjusted to a propane mass basis) and the formaldehyde test result, and correcting the results as described in AP-42 Section 10.6.1.3, dated 3/2002. The carbon mass result will be used for demonstrating compliance with the carbon mass based limit.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item: GP 003 Keeler Boilers (Back-up boilers)**

- Associated Items:** CE 039 Multiple Cyclone w/Fly Ash Reinjection-Common w/Coal Boilers  
 CE 040 Multiple Cyclone w/Fly Ash Reinjection-Common w/Coal Boilers  
 CE 041 Electrified Filter Bed  
 EU 100 Boiler 1  
 EU 101 Boiler 2  
 SV 003 Keeler Boiler Stack

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.085 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.085 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0515, subp. 2
Carbon Monoxide: less than or equal to 1.1 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.40 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.30 lbs/million Btu heat input . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
OPERATING REQUIREMENTS AND LIMITS	hdr
Steam Flow: less than or equal to 36000000 lbs/year using 365-day Rolling Sum . Limit is total steam production for both boilers.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Fuel Usage: Limited to dry wood fuel. Wood waste, propane, natural gas, and up to two percent by weight of the total fuel combusted may consist of manufacturing residue or cellulose based sorbents.	Minn. R. 7007.0800, subp. 2
Manufacturing residue: The manufacturing residue must be generated on site and may consist of the following: wood flake resin and wax accumulations cleaned from equipment, confidential office records (paper) and corrugated cardboard unsuitable for recycling. In addition, the manufacturing residue shall not contain any of the following: any hazardous waste listed in Minn. R. 7045.0135, any wastes specified in Minn. R. 7045.0131 as hazardous, or batteries or any other material where mercury has been purposely introduced. Absorbent material from spills containing oil, anti-freeze, water-based paints, or soy or water-based ink may be combusted. The spilled material other than oil shall not contain: any hazardous waste listed in Minn. R. 7045.0135 or any wastes specified in Minn. R. 7045.01313 as hazardous. The oil in any absorbent material shall only be on-specification used oil.	Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 93 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
CONTROL EQUIPMENT	hdr
EFB Bed Voltage: greater than or equal to 3.0 kV, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the minimum bed voltage recorded during the most recent MPCA-approved performance test where compliance for PM and/or PM10 was demonstrated. If the EFB bed voltage falls below the minimum, this shall be reported as a deviation.	Title I Condition: Monitoring for BACT Limit; Minn. R. 7007.0800, subp. 2 and 14
EFB Ionizer Voltage: greater than or equal to 13.0 kV, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the minimum ionizer voltage recorded during the most recent MPCA-approved performance test where compliance for PM and/or PM10 was demonstrated. If the EFB ionizer voltage falls below the minimum, this shall be reported as a deviation.	Title I Condition: Monitoring for BACT Limit; Minn. R. 7007.0800, subp. 2 and 14
Recordkeeping of EFB Bed Voltage and EFB Ionizer Voltage. Once each day while in operation, the Permittee shall monitor and record the bed voltage and ionizer voltage. The Permittee shall record the time and date of each bed voltage and ionizer voltage reading and whether or not the recorded measurement was within the range specified in this permit.	Title I Condition: Monitoring for BACT Limit; Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the cyclones and EFB any time that any process equipment controlled by the control equipment is in operation. The control equipment shall be operated and maintained in accordance with the Operations and Maintenance (O&M) Plan. The Permittee shall keep copies of the O&M Plan available onsite for use by staff and MPCA staff.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14
The Permittee shall maintain a hard copy or electronic file of the monitored parameters for the EFB.	Title I Condition: Monitoring for BACT Limit; Minn. R. 7007.0800, subp. 4 and 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Daily Monitoring: The Permittee shall physically verify the monitoring device at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the verification.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain monitoring equipment to conduct monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4
Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment external system components, including but not limited to the electrical systems. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Inspections: At least once per calendar year, the Permittee shall inspect the control equipment internal components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate all monitoring equipment at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: If the monitored parameters are outside the ranges specified by this permit or if the control equipment or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the monitored parameters to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the control equipment. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
<b>PERFORMANCE TESTING</b>	hdr
Initial Performance Test: due 730 days after permit issuance to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, Carbon Monoxide, and Nitrogen Oxides emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
<b>RECORDKEEPING</b>	hdr
Daily Recordkeeping. On each day of operation, the Permittee shall calculate and record, and maintain records of, the production of steam for the previous twenty-four hour period. The daily steam production shall be added to the total daily steam production calculated for the previous 364 calendar days to calculate a 365-day rolling sum. The 365-day rolling sum shall be recorded daily.	Title I Condition: Monitoring for BACT Limit (40 CFR 52.21 and Minn. R. 7007.3000); Minn. R. 7007.0800, subp. 4 and 5
Daily Recordkeeping: On each day of operation, the Permittee shall calculate, record, and maintain records of, the total weight of fuel fed to the boilers, as well as the total weight of the manufacturing residue and absorbent material added to the boiler fuel stream.	Minn. R. 7007.0800, subp. 4 and 5
Monthly Recordkeeping - By the 15th day of each month, the Permittee shall calculate and record the monthly average weight percentage of manufacturing residue and absorbent material burned in the boilers for the previous month. This percentage shall be compared to the limit.	Minn. R. 7007.0800, subp. 4 and 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 036 Line I Blending System

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

CE 012 Centrifugal Collector - Medium Efficiency

SV 007 Blending Baghouse System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.3 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 365 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 38,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 040 Line II Dry Fuel Preparation System

**Associated Items:** CE 035 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 036 Centrifugal Collector - Medium Efficiency

SV 014 Dry Fuel Prep

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.17 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 730 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 5,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 050 Line I Sawline System

**Associated Items:** CE 015 Centrifugal Collector - Medium Efficiency

CE 016 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 009 Sawline Baghouse System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.1 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 1825 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 33,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 051 Line I Sanding System

**Associated Items:** CE 017 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 018 Centrifugal Collector - Medium Efficiency

SV 010 Sanding Baghouse System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.9 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 365 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 55,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 053 Line 2 Sawline System

**Associated Items:** CE 032 Centrifugal Collector - Medium Efficiency

CE 033 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 014 Dry Fuel Prep

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.2 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 365 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 35,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 062 Line I Forming System

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

CE 014 Centrifugal Collector - Medium Efficiency

SV 008 Forming Baghouse System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 1.2 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 1825 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 35,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 090 Line I Hogged Fuel System

**Associated Items:** CE 021 Centrifugal Collector - Medium Efficiency

CE 022 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 012 Hogged Fuel System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.41 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 1460 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 12,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 094 Line I Dry Fuel System

**Associated Items:** CE 019 Centrifugal Collector - Medium Efficiency

CE 020 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 011 Dry Fuel Baghouse System

What to do	Why to do it
LIMITS AND OPERATING REQUIREMENTS	hdr
Total Particulate Matter: less than or equal to 0.0040 grains/dry standard cubic foot . This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0040 grains/dry standard cubic foot	Title I Condition: 40 CFR Section 52.21 (BACT limit); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.21 lbs/hour	Title I Condition: 40 CFR Section 52.21 (modeling limit); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 99 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
MONITORING	hdr
Visible Emissions: For each baghouse listed as associated items, the Permittee shall check the fabric filter stack for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection or pressure drop reading, and whether or not any visible emissions were observed, or whether or not the observed pressure drop was within the range specified in the Operation and Maintenance Plan.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation.	Title I Condition: Monitoring for Title I Limit (40 CFR Section 52.21); Minn. R. 7007.0800, subp. 2 and 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the specified operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring pressure drop as required by this permit.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the external control equipment components. At least once per calendar year, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the internal control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5 and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 1095 days after permit issuance to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Title I Condition: Monitoring for Title I (BACT and modeling) limits; Minn. R. 7017.2020, subp. 1
CLEAN UNIT	hdr
Clean Unit Designation: This unit qualifies as a Clean Unit for Total Particulate Matter and Particulate Matter less than 10 microns provided the Permittee complies with the provisions of 40 CFR Section 52.21(y). This designation is effective on issuance date of this permit and expires on date 10 years from permit issuance date.	Title I Condition: 40 CFR Section 52.21(y)(8) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Basis for Clean Unit Designation. In addition to the other related Title I limits contained in this permit, the following parameters formed the basis for the BACT Determination: Flowrate of 6,000 dscfm.	Title I Condition: 40 CFR Section 52.21(y)(8)(iv) and Minn. R. 7007.3000
To maintain the Clean Unit designation, the Permittee must conform to all the restrictions listed in 40 CFR Section 52.21(y)(9). Failure to do so results in the unit losing the Clean Unit designation.	Title I Condition: 40 CFR Section 52.21(y)(9) and Minn. R. 7007.3000

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item: EU 109 Fire Pump Engine****Associated Items: SV 016 Diesel Fire Pump Engine**

<b>What to do</b>	<b>Why to do it</b>
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input (emission rate is 0.70 lb/hr based on equipment design).	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Fuels allowed: distillate fuel oil only.	Minn. R. 7007.0800, subp. 2



**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 110 Diesel Generator**Associated Items:** SV 015 Diesel Generator

<b>What to do</b>	<b>Why to do it</b>
Sulfur Dioxide: less than or equal to 0.5 lbs/million Btu heat input (emission rate is 0.48 lb/hr based on equipment design).	Minn. R. 7011.2300, subp. 2
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Fuels allowed: distillate fuel oil only.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 128 Power Cogeneration Boiler

**Associated Items:** CE 037 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 038 Electrostatic Precipitator - High Efficiency

CE 050 Selective Noncatalytic Reduction for NOX

SV 004 Power Boiler (Co-gen)

What to do	Why to do it
Total Particulate Matter: less than or equal to 0.030 lbs/million Btu heat input . This limit is more stringent than the limit in 40 CFR Section 60.43b(c)(1) which also applies (the NSPS limit is 0.10 lb/mmBtu).	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.030 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity except for one six-minute period per hour of not more than 27 percent opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, or malfunction.	40 CFR Section 60.43b(f) and 60.43b(g)
Carbon Monoxide: less than or equal to 0.20 lbs/million Btu heat input	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 0.080 lbs/million Btu heat input . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Nitrogen Oxides: less than or equal to 0.20 lbs/million Btu heat input using 24-hour Rolling Average	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
OPERATING REQUIREMENTS AND LIMITS	hdr
Fuel Usage: Limited to dry wood fuel. Wood waste, propane, natural gas, and up to one percent by weight of the total fuel combusted may consist of manufacturing residue or cellulose based sorbents.	Minn. R. 7007.0800, subp. 2
Manufacturing residue: The manufacturing residue must be generated on site and may consist of the following: wood flake resin and wax accumulations cleaned from equipment, confidential office records (paper) and corrugated cardboard unsuitable for recycling. In addition, the manufacturing residue shall not contain any of the following: any hazardous waste listed in Minn. R. 7045.0135, any wastes specified in Minn. R. 7045.0131 as hazardous, or batteries or any other material where mercury has been purposely introduced. Absorbent material from spills containing oil, anti-freeze, water-based paints, or soy or water-based ink may be combusted. The spilled material other than oil shall not contain: any hazardous waste listed in Minn. R. 7045.0135 or any wastes specified in Minn. R. 7045.01313 as hazardous. The oil in any absorbent material shall only be on-specification used oil.	Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the control equipment such that it achieves an overall control efficiency for Total Particulate Matter and Particulate Matter < 10 micron: greater than or equal to 95 percent control efficiency	Title I Condition: 40 CFR Section 52.21 (BACT and modeling); Minn. R. 7007.0800, subp. 2 and 14
Number of Fields On-line: greater than or equal to 2, unless a new minimum is set pursuant to Minn. R. 7017.2025, subp. 3, based on the number of fields on-line recorded during the most recent MPCA approved performance test where compliance for PM and/or PM10 emissions was demonstrated. If the number of fields drops below the minimum required, this shall be reported as a deviation. The Permittee shall physically check and record the number of fields on-line at least once during each operating day of operation.	Title I Condition: Monitoring for BACT limit; Minn. R. 7007.0800, subp. 2
SNCR Operating Parameters: Once each day while in operation, the Permittee shall physically check and record that the metering system is energized and that the circulation pumps are operating. If the system is not energized or the pumps are not operating, this shall be reported as a deviation.	Title I Condition: Monitoring for BACT limit; Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the cyclones, ESP and SNCR any time that any process equipment controlled by the control equipment is in operation.	Title I Condition: Monitoring for BACT limit; Minn. R. 7007.0800, subp. 2 and 14
Daily Monitoring: The Permittee shall physically verify the monitoring devices at least once each operating day to verify that they are working and recording properly. The Permittee shall maintain a written record of the verifications.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee shall install and maintain monitoring equipment to conduct monitoring required by this permit. The monitoring equipment must be installed, in use, and properly maintained whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4
Quarterly Inspections: At least once per calendar quarter, the Permittee shall inspect the control equipment external system components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Annual Inspections: At least once per calendar year, the Permittee shall inspect the control equipment internal system components. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5, and 14
Annual Calibration: The Permittee shall calibrate all monitoring equipment at least annually and shall maintain a written record of the calibration and any action resulting from the calibration.	Minn. R. 7007.0800, subp. 4, 5, and 14
Corrective Actions: If the monitored parameters are outside the ranges specified by this permit or if the control equipment or any of its components are found during the inspections to need repair, the Permittee shall take corrective action as soon as possible. Corrective actions shall return the monitored parameters to within the permitted range and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the control equipment. The Permittee shall keep a record of the type and date of any corrective action taken.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall operate and maintain the control equipment in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
PERFORMANCE TESTING	hdr
Initial Performance Test: due 730 days after 06/17/2004 to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, and Carbon Monoxide emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
COMS REQUIREMENTS	hdr
Continuous Operation: COMS 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 COMS 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; 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 according to the requirements of 40 CFR 60.13(d)(2). The zero and upscale calibration levels must be determined using the span value. The span value shall be between 60% and 80%.	Minn. R. 7017.1210, subp. 2; 40 CFR Section 60.13(d); 40 CFR Section 60.48b(e)(1)
COMS Calibration Error Audit: due before end of each calendar half-year following Permit Issuance. Conduct three point calibration error audits at least 3 months apart but no greater than 8 months apart. Conduct audits in accordance with Minn. R. 7017.1210, subp. 3.	Minn. R. 7017.1210, subp. 3
COMS Calibration Error Audit Results Summary: due 30 days after end of the calendar quarter in which the COMS Calibration Error Audit was completed.	Minn. R. 7017.1220
Attenuator Calibration: The Permittee shall perform an attenuator calibration in accordance with Minn. R. 7017.1210, subp. 4.	Minn. R. 7017.1210, subp. 4
All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data for each successive 6-minute period.  The Permittee shall reduce all COMS data to 6-minute averages in accordance with Minn. R. 7017.1200, subp. 2 and 3 and 40 CFR 60.13(h).	Minn. R. 7017.1200, subp. 1, 2 & 3; 40 CFR Section 60.13(e)(1); 40 CFR Section 60.13(h)
Emissions Monitoring: The owner or operator shall use a COMS to measure opacity emissions from EU 128.	Minn. R. 7017.1006; 40 CFR Section 60.48b(a).
Recordkeeping: The owner or operator must retain records of all COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130
QA Plan Required: Develop and implement a written quality assurance plan which covers each COMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain the written procedures listed in Minn. R. 7017.1210, subp. 1.	Minn. R. 7017.1210
CEMS REQUIREMENTS	hdr
CEMS Daily Calibration Drift (CD) Test: The CD shall be quantified and recorded at zero (low-level) and upscale (high-level) gas concentrations at least once daily. The span value used shall be 1.5 times the emission limit, and shall be used to determine the zero and span calibration points. 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. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 3

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Cylinder Gas Audit (CGA): due before end of each calendar half-year following Permit Issuance. Conduct CGA at least 3 months apart and not greater than 8 months apart. Follow the procedures in 40 CFR pt. 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 the calendar quarter in which the Cylinder Gas Audit (CGA) was completed.	Minn. R. 7017.1180, subp. 1
CEMS Relative Accuracy Test Audit (RATA): due before end of each calendar year following Permit Issuance. 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 Appendix F.	Minn. R. 7017.1170, subp. 5
Relative Accuracy Test Audit (RATA) Notification: due 30 days before CEMS Relative Accuracy Test Audit (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
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
All CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.  The Permittee shall reduce all CEMS data to 1-hour averages in accordance with Minn. R. 7017.1160 and 40 CFR 60.13(h).	Minn. R. 7017.1140; Minn. R. 7017.1160; Minn. R. 7007.0800, subp. 4; 40 CFR Section 60.13(e)(2); 40 CFR Section 60.13(h)
Emissions Monitoring: The owner or operator shall use a NOx CEMS to measure NOx emissions from EU 128.	Title I Condition: Monitoring for BACT limit; Minn. R. 7017.1006
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. 7007.1130
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
<b>RECORDKEEPING</b>	hdr
The Permittee shall maintain a hard copy or electronic file of the monitored parameters for the ESP.	Title I Condition: Monitoring for BACT Limit; Minn. R. 7007.0800, subp. 4 and 5
Daily Recordkeeping: On each day of operation, the Permittee shall calculate, record, and maintain records of, the total weight of fuel fed to the boilers, as well as the total weight of the manufacturing residue and absorbent material added to the boiler fuel stream.	Minn. R. 7007.0800. subp. 4 and 5
Monthly Recordkeeping - By the 15th day of each month, the Permittee shall calculate and record the monthly average weight percentage of manufacturing residue and absorbent material burned in the boilers for the previous month. This percentage shall be compared to the limit.	Minn. R. 7007.0800, subp. 4 and 5

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 129 Line 1 Press

**Associated Items:** SV 005 Board Press Line 1

What to do	Why to do it
LIMITS	hdr
Total Particulate Matter: less than or equal to 15 lbs/hour . This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Minn. Stat. 116.07, subd. 4a
Total Particulate Matter: less than or equal to 0.51 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 15 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.51 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
Carbon Monoxide: less than or equal to 0.15 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 4.5 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 15 lbs/hour . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Volatile Organic Compounds: less than or equal to 1.5 lbs/ton of finished product . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
PERFORMANCE TESTING	hdr
Initial Performance Test: due 180 days after Initial Startup of Line 1 dryer new burners (EU 134, EU 135) but no later than 730 days from permit issuance, to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, and Carbon Monoxide emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 365 days after Initial Performance Test to determine Total Particulate Matter, Particulate Matter less than 10 microns, and Volatile Organic Compound emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 1,095 days after Initial Performance Test to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Volatile Organic Compound emissions. (Test within 3 years of initial performance test.)	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
VOC Performance Tests: Whenever a performance test is conducted to measure VOC emissions, the company shall conduct a performance test for formaldehyde simultaneously with the VOC performance test for the purpose of establishing a correlation between past test procedures and recently established requirements for testing and emission factor development. Results shall be reported on (1) a carbon mass basis based on the Method 25 or 25A data alone; and (2) an "as VOC" basis, summing the Method 25 or 25A data (adjusted to a propane mass basis) and the formaldehyde test result, and correcting the results as described in AP-42 Section 10.6.1.3, dated 3/2002. The carbon mass result will be used for demonstrating compliance with the carbon mass based limit.	Minn. R. 7007.0800, subp. 2

**TABLE A: LIMITS AND OTHER REQUIREMENTS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

**Subject Item:** EU 130 Line 2 Press

**Associated Items:** SV 006 Board Press Line 2

What to do	Why to do it
Total Particulate Matter: less than or equal to 10 lbs/hour . This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act. This is more stringent than limit in Minn. R. 7011.0715, subp. 1(A), which also applies.	Minn. Stat. 116.07, subd. 4a
Total Particulate Matter: less than or equal to 0.34 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 10 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.34 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 4.5 lbs/hour	Title I Condition: 40 CFR Section 52.21(k) (modeling); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.15 lbs/ton of finished product	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
Volatile Organic Compounds: less than or equal to 15 lbs/hour . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. Stat. 116.07, subd. 4a
Volatile Organic Compounds: less than or equal to 0.61 lbs/ton of finished product . VOC, as carbon, shall be measured by Method 25 or 25A or by an alternate or equivalent method approved by the agency.	Title I Condition: 40 CFR Section 52.21(j) (BACT); Minn. R. 7007.3000
PERFORMANCE TESTING	hdr
Initial Performance Test: due 270 days after Initial Startup of the Line 2 dryer RTO (CE 049), but no later that 910 days (2 1/2 years) from permit issuance, to determine opacity and Total Particulate Matter, Particulate Matter less than 10 microns, Volatile Organic Compound, and Carbon Monoxide emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
Performance Test: due 365 days after Initial Performance Test to determine Total Particulate Matter, Particulate Matter less than 10 microns, and Volatile Organic Compound emissions.	Title I Condition: Monitoring for BACT limits; Minn. R. 7017.2020, subp. 1
SCHEDULE OF COMPLIANCE REQUIREMENTS	hdr
NESHAP Required Control: The Permittee shall begin installation of any control required by the Plywood and Composite Wood Products NESHAP, upon its promulgation, prior to installation of the NESHAP-required control at the two other Potlatch OSB uncontrolled presses in Minnesota. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2 (Schedule of Compliance, signed 8/5/03)
NESHAP Compliance Demonstration: The Permittee shall demonstrate compliance with the Plywood and Composite Wood Products NESHAP standard on the Line 2 Press (EU 130) a minimum of 12 months prior to the compliance date as set in the NESHAP. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2 (Schedule of Compliance, signed 8/5/03)
Alternate Compliance Requirement: If the control required by the Plywood and Composite Wood NESHAP is not thermal oxidizer technology, then the Permittee shall retro-fit diesel-fueled school buses from area school districts with in-line pollution control equipment. Such retrofitting shall be completed within 24 months of the promulgation date of the NESHAP. The school bus retro-fit project shall consist of 15 buses or a total expenditure of \$50,000, whichever occurs first. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2 (Schedule of Compliance, signed 8/5/03)
VOC Performance Tests: Whenever a performance test is conducted to measure VOC emissions, the company shall conduct a performance test for formaldehyde simultaneously with the VOC performance test for the purpose of establishing a correlation between past test procedures and recently established requirements for testing and emission factor development. Results shall be reported on (1) a carbon mass basis based on the Method 25 or 25A data alone; and (2) an "as VOC" basis, summing the Method 25 or 25A data (adjusted to a propane mass basis) and the formaldehyde test result, and correcting the results as described in AP-42 Section 10.6.1.3, dated 3/2002. The carbon mass result will be used for demonstrating compliance with the carbon mass based limit.	Minn. R. 7007.0800, subp. 2

**TABLE B: SUBMITTALS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji  
Permit Number: 05700005 - 002

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

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

Send any application for a permit or permit amendment to:

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

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

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

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

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

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

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

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

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

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

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of CE 049. Submit the name and number of the control device and the actual date of initial startup of the control device. The notification shall also state the effective and expiration dates of the Clean Unit Designation.	GP002
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of EU 134 and EU 135 (new burners for Line 1 dryers).	GP001
Notification	due 10 days after Equipment Installation, if needed, of in-line pollution control equipment on last bus. The notification shall include a letter(s) from the affected school district(s) verifying that the installations are complete. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	EU130
Notification	due 10 days after Initial Startup of any NESHAP-required control. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	EU130
Notification	due 10 days after Start Of Construction of any NESHAP-required control. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	EU130
Testing Frequency Plan	due 60 days after Initial Performance Test for Total Particulate Matter, Particulate Matter less than 10 micron, Volatile Organic Compound, and Carbon Monoxide 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, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU128
Testing Frequency Plan	due 60 days after Performance Test (the performance test due within 1 year of initial performance test) for Total Particulate Matter, Particulate Matter less than 10 microns, Carbon Monoxide, and Volatile Organic Compound emissions. The plan shall specify a testing frequency based on the consideration of such things as the variability of test results, how close test results are to emission factors used in calculation of projected actuals calculations, and how close the actual facility increases are to the PSD significance thresholds. Future performance tests shall be required upon written approval of the MPCA.	EU130



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

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

Testing Frequency Plan	due 60 days after Performance Test (the performance test due within 1 year of initial performance test) for Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides, Carbon Monoxide, and Volatile Organic Compound emissions. The plan shall specify a testing frequency based on the consideration of such things as the variability of test results, how close test results are to emission factors used in calculation of projected actuals calculations, and how close the actual facility increases are to the PSD significance thresholds. Frequency for VOC tests should also consider the length of time since the last changeout of RTO media (e.g. if more than four years since changeout, frequency between tests should be shorter). Future performance tests shall be required upon written approval of the MPCA.	GP002
Testing Frequency Plan	due 60 days after Performance Test (the performance test due within 3 years of initial performance test) for Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides, Carbon Monoxide, and Volatile Organic Compound emissions. The plan shall specify a testing frequency based on the consideration of such things as the variability of test results, how close test results are to emission factors used in calculation of projected actuals calculations, and how close the actual facility increases are to the PSD significance thresholds. Frequency for VOC tests should also consider the length of time since the last changeout of RTO media (e.g. if more than four years since changeout, frequency between tests should be shorter). Future performance tests shall be required upon written approval of the MPCA.	GP001
Testing Frequency Plan	due 60 days after Performance Test (the performance test due within 3 years of initial performance test) Total Particulate Matter, Particulate Matter less than 10 microns, Carbon Monoxide, and Volatile Organic Compound emissions. The plan shall specify a testing frequency based on the consideration of such things as the variability of test results, how close test results are to emission factors used in calculation of projected actuals calculations, and how close the actual facility increases are to the PSD significance thresholds. Future performance tests shall be required upon written approval of the MPCA.	EU129

**TABLE B: RECURRENT SUBMITTALS**

11/18/04

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 002

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 06/17/2004 (Submit Deviations Reporting Form DRF-1 as amended). The NOx CEMS 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.	EU128
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 06/17/2004 (Submit Deviations Reporting Form DRF-1 as amended). The COMS 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.	EU128
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 06/17/2004 . 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
Annual Report	due 30 days after end of each calendar year following Initial Startup of CE 049. The Annual Report shall provide actual emissions for the project affected units, and shall compare the overall change in emissions to the PSD Significant Threshold levels. Emissions of VOCs shall be corrected as needed and reported as VOCs. The emission numbers that were used to approve the permit are provided in Appendix E of this permit. The Annual Report shall follow this format.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 06/17/2004 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility

## ***APPENDIX MATERIAL***

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji  
Permit Number: 05700005-002

- Appendix A (not used in this permit)
- Appendix B List of Insignificant Activities
- Appendix C Stack Parameters
- Appendix D Fugitive Dust Control Plan
- Appendix E Applicability Analysis

**Appendix B**  
**List of Insignificant Activities**

Under Minn. R. 7007.1250, subp. 1(A), the Permittee may add insignificant activities to the stationary source throughout the term of the permit without getting permit amendments. Certain exclusions apply and are listed in Minn. R. 7007.1250, subp. 2.

The following sources at the Permittee’s facility qualify as insignificant activities under Minn. R. 7007.1300, subs. 2, 3 and 4 and are not required to be listed in the permit.

<b>Minn. R. 7007.1300, subp.</b>	<b>Rule Description of the Activity</b>	<b>General Applicable Requirement</b>
3(H)(6)	Equipment used exclusively for melting or application of wax. <i>The facility has two 13,000 gal. emulsified wax storage tanks</i>	Minn. R. 7011.0715 (PM and opacity)
3(I)	Individual emission units at a stationary source which each have a potential to emit for each of the following pollutants less than: (1) 4,000 pounds per year of CO; or (2) 2,000 pounds per year each of PM, PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub> , and VOCs. <i>Emission units that qualify under this subpart include:</i> <ul style="list-style-type: none"> <li>• <i>Bark piles</i></li> <li>• <i>Radial stacker</i></li> <li>• <i>Line 1 dryer emergency outfeeds</i></li> <li>• <i>Line 2 dryer emergency outfeeds</i></li> </ul>	Minn. R. 7011.0715 (PM and opacity)
4(B)	Emission units with potential emissions of less than 2.28 lb/hr or actual emissions of less than 1.0 lb/hr of PM, PM <sub>10</sub> , NO <sub>x</sub> , SO <sub>2</sub> , and VOCs. <i>Emission units at the Bemidji facility that qualify under this subpart include:</i> <ul style="list-style-type: none"> <li>• <i>Parts washer – maintenance shop</i></li> <li>• <i>Yard hog</i></li> <li>• <i>Keeler EFB Baghouse</i></li> </ul>	Minn. R. 7011.0715 (PM and opacity)

## APPENDIX C

### Modeling Parameters (as of 12/3/03)

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005-002

ID	Description	Stack Height (ft)	Stack Temp. (°F)	Stack Exit Velocity (ft/min)	Stack Diam. (ft)	NO <sub>x</sub> (lb/hr)	CO (lb/hr)	PM <sub>10</sub> (lb/hr)
GP 001	Line 1 dryers	135	260	3898	7	51	20	12
GP 002	Line 2 dryers	135	260	1733	10.5	54	40	12
GP 003	Keeler Boilers	110	450	5612	4.3	56	154	11.9
EU 036	Line 1 Blending System	62	68	3534	3.7	---	---	1.3
EU 040	Line 2 Dry Fuel Prep System	40	68	873	2.7	---	---	0.17
EU 050	Line 1 Sawline System	45	68	3242	3.6	---	---	1.13
EU 051	Line 1 Sanding System	54	68	1710	6.4	---	---	1.89
EU 053	Line 2 Sawline System	46	68	1238	6	---	---	1.2
EU 062	Line 1 Forming System	61	68	3255	3.7	---	---	1.2
EU 090	Line 1 Hogged Fuel System	33	68	1949	2.8	---	---	0.41
EU 094	Line 1 Dry Fuel System	33	68	1130	2.6	---	---	0.21
EU 128	Power Cogeneration Boiler	110	300	3977	6	46.4	46.4	6.96
EU 129	Line 1 Press	138	122	4482	5	2.4	4.5	15
EU 130	Line 2 Press	138	110	5093	5	2.35	4.5	10.2



**Appendix D**  
**Fugitive Dust Control Plan**





**Appendix E**  
**Applicability Analysis**



**TECHNICAL SUPPORT DOCUMENT**  
**For**  
**AIR EMISSION PERMIT NO. 05700005-002**

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: <b>2493</b> )
Ainsworth Engineered (USA) LLC Suite 3194 Bentall 4 1055 Dunsmuir Street, PO Box 49307 Vancouver, BC Canada V7X 1L3	29647 US Highway 2 E Bemidji, MN 56601 Hubbard County
Contact: <b>Mr. Stephen Bailey, Plant Manager</b> Phone: <b>(218) 759-8021</b>	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.