AIR EMISSION PERMIT NO. 05700005- 004

IS ISSUED TO

Ainsworth Engineered (USA) LLC

Ainsworth Engineered (USA) LLC - Bemidji
29647 US Highway 2 East
Bemidji, Hubbard 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):

Permit Type	Application Date	Issuance Date	Action Number
Total Facility Operating Permit	January 30, 2004 And April 1995	6/17/2004	001
Administrative Amendment	September 29, 2004	November 18, 2004	002
Administrative Amendment	June 10, 2005	August 3, 2005	003
Major Amendment	December 15, 2005	See below	004

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/Major for NSR

Issue Date: June 21, 2006

Expiration: 6/17/2009
Title I Conditions do not expire.

Richard J. Sandberg, Manager
Air Quality Permits Section
Industrial Division

for Sheryl A. Corrigan
Commissioner
Minnesota Pollution Control Agency

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NOTICE TO THE PERMITTEE:

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

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

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

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

FACILITY DESCRIPTION:

PERMIT ACTION 001 (Total Facility Permit):

Ainsworth Engineered (USA) LLC (Ainsworth) 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 Highway 2. The existing 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_{10}), Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), and Nitrogen Oxides (NO_x). 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_{10}, VOCs, CO and NO_x. 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_x. The back-up Keeler boilers are sources of PM, PM_{10}, VOC, CO and NO_x and are natural gas fired. Because they are restricted to natural gas burning only (with Permit Action No. 004) the use of control equipment is not required. 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 (the previous owner) proposed to modify its mill in a modification that was being incorporated into the Title V permit. Potlatch installed two additional burners on the Line 1 dryer system and would install a thermal oxidizer on the Line 2 dryer system. Installation of the oxidizer allowed the facility to remove the temperature limit on the Line 2 dryers previously established as a BACT limit. These modifications resulted in increased production for the facility.

PERMIT ACTION 002 (Administrative Amendment):

Permit action 002 was for a change of ownership at the facility. The new owners became Ainsworth Engineered (USA) LLC (previously owned by Potlatch Corporation).

PERMIT ACTION 003 (Administrative Amendment):

This permit action was for the extension of a testing deadline for the Line 2 rotary drying system.

It also removed the language regarding Clean Units. On June 24, 2005, the D.C. Circuit Court issued a decision on challenges to the 2002 NSR Reform rules. The court vacated the clean unit and pollution control project provisions of 40 CFR § 52.21.

PERMIT ACTION 004 (Major Amendment):

This permit action incorporates two major amendment applications. One application asked for an increase in the CO limit for the emissions from the Line 2 Rotary Dryers. The CO emissions limit was established in support of a recent dryer improvement project that was incorporated into the Title V permit issued in June of 2004. That project resulted in an increase in production at the facility.

The previous CO emission limit was set at 15 pounds per hour. Ainsworth requested the increase because stack testing showed that this limit would be difficult to meet for two reasons; to meet the lower limit the oxidizer would need to be run at too high of a temperature to sustain without damage to equipment, and higher air flows through the dryer were needed to prevent fires within it. Higher air flows through the dryer, and thus thermal oxidizer, would reduce residence time of the gases within the oxidizer, and result in higher CO emissions. It was not necessary to change the existing CO BACT limit of 1.8 pounds per oven dried tons of product. The updated applicability analysis showed that the higher emission rate did not result in a change in applicability completed in support of the 2004 permit.

This permit action also incorporated the requirements of 40 CFR pt. 63, Subp. DDDDD for the boilers on site. With an application submitted December 15, 2005, Ainsworth asked that the requirements for Subp. DDDDD and Subp. DDDD (Plywood and wood composites MACT) be incorporated into its permit. Only Subp. DDDDD requirements are included in this permit because since Ainsworth applied for the amendment, the compliance date for Subp. DDDD has been extended one year through an action taken January 31, 2006. Since the compliance options may be changed by U.S. Environmental Protection Agency (EPA) in that regulation the Subp. DDDD requirements are not included in this permit.

Also incorporated into this permit action are the deletion of requirements that have been fulfilled and the specification of dates for many of the stack emission test requirements.

TABLE A: LIMITS AND OTHER REQUIREMENTS

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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
DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr
These requirements under the section titled "Determining if a Project/Modification is Subject to New Source Review" apply where there is a reasonable possibility that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test and found to not be part of a major modification, may result in a significant emissions increase. If the ATPA test is not used for a particular project, or if there is not a reasonable possibility that the proposed project could result in a significant emissions increase, then these requirements do not apply to that project. Even though a particular modification is not subject to New Source Review, a permit amendment, recordkeeping, or notification may still be required under Minn. R. 7007.1150 - 7007.1500.	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000

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Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following information: 1. A description of the project 2. Identification of the emission unit(s) whose emissions of an NSR pollutant could be affected 3. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the unit(s) could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any creditable contemporaneous increases and decreases that were considered in the determination. The Permittee shall maintain records of this documentation.	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5
The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project.	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5
The Permittee must submit a report to the Agency if the annual summed (actual plus potential, if applicable) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR Section 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain: a. The name and ID number of the facility, and the name and telephone number of the facility contact person b. The annual emissions (actual plus potential, if any part of the project was analyzed using potential emissions) for each pollutant for which the preconstruction projection and significant emissions increase are exceeded. c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection.	Title I Condition: 40 CFR Section 52.21(r)(6) and Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 & 5
OPERATIONAL REQUIREMENTS	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

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PERFORMANCE TESTING	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A or B.	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. Note: Sources subject to Part 63 have different reporting deadlines.	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
MONITORING REQUIREMENTS	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)
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)
RECORDKEEPING	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)
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2

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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

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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

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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
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	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
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 < 10 micron: greater than or equal to 95 percent control efficiency	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
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.	Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
CONTROL EQUIPMENT	hdr
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&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 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.	Title I Condition: Monitoring for limits set due to 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 4 and 5
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.	Minn. R. 7007.0800, subp. 4 and 5
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

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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
PERFORMANCE TESTING	hdr
Initial Performance Test: due before 06/17/2006 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 30 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
Natural gas usage: Less than or equal to 18,000 mmBtu per year based on a 365 day rolling sum when EU108 abort stack is open.	Title I Condition: To avoid major modification classification under 40 CFR Section 52.21 and Minn. R. 7007.3000

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
Temperature: greater than or equal to 1601 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.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
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	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2 and 14
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 < 10 micron: greater than or equal to 95 percent control efficiency	Title I Condition: 40 CFR Section 52.21; 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 anytime that process gases are going through the control equipment, this shall be reported as a deviation.	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.0800, subp. 2
CONTROL EQUIPMENT	hdr
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 & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff. During times when the Permittee is only combusting natural gas in EU108 and is not operating the dryers (EU019, EU020 or EU021), the Permittee is not required to operate the air pollution control equipment (CE023, 024, 025, 046, 047, 048, and 049.)	Title I Condition: 40 CFR Section 52.21; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 14
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.	Title I Condition: Monitoring for BACT limits; Minn. R. 7007.0800, subp. 4 and 5
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.	Minn. R. 7007.0800, subp. 4 and 5
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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
PERFORMANCE TESTING	hdr
Performance Test: due before 11/02/2006 to determine Total Particulate Matter, Particulate Matter less than 10 microns, Nitrogen Oxides, Carbon Monoxide 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
RECORDKEEPING	hdr
Daily Recordkeeping: On each day of operation, the Permittee shall calculate and record, and maintain a record of the daily natural gas usage for the previous twenty-four hour period while EU108 was heating thermal oil via the abort stack. The daily natural gas usage shall be added to the total daily natural gas usage calculated for the previous 364 days to calculate a 365-day rolling sum. The 365-day rolling sum shall be recorded daily when the pollution control equipment is not utilized.	Title I Condition: To avoid major modification classification under 40 CFR Section 52.21 and Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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

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 natural gas	Minn. R. 7007.0800, subp. 2, 40 CFR Section 63.7506, 40 CFR Section 63.7575
RECORDKEEPING	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
In accordance with 40 CFR Section 63.7506 the Permittee is only subject to the inital notification requirements in 40 CFR Section 63.9(b) and is not subject to the emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, recordkeeping and reporting requirements of subp. DDDDD or any other requirements of subp. A of Part 63.	40 CFR Section 63.7506

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 before 06/16/2006 to measure Total Particulate Matter, Particulate Matter less than 10 microns, and Opacity.	Minn. R. 7017.2020, subp. 1

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 before 06/17/2009 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
Performance Test: due before 06/17/2009 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 before 06/17/2008 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 before 06/17/2007 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

Subject Item: **EU 109 Fire Pump Engine**

Associated Items: SV 016 Diesel Fire Pump Engine

What to do	Why to do it
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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

Subject Item: **EU 110 Diesel Generator**

Associated Items: SV 015 Diesel Generator

What to do	Why to do it
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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
EMISSION LIMITS	hdr
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) and 40 CFR Part 63, subp. DDDDD. The subp. DDDDD limit is not effective until 9/13/2007.	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), 40 CFR Part 63, subp. DDDDD, Tables 2 and 3
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
Hydrochloric acid: less than or equal to 0.09 lbs/million Btu heat input . This limit applies after September 13, 2007.	40 CFR Part 63, subp. DDDDD, Table 1
Mercury: less than or equal to 0.000009 lbs/million Btu heat input . This limit applies after September 13, 2007.	40 CFR Part 63, subp. DDDDD, Table 1
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 record of the verifications.	Minn. R. 7007.0800, subp. 4 and 5

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
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
PERFORMANCE TESTING	hdr
Performance Test: due before 12/31/2006 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
Initial Performance Test: due before 03/18/2008 for Total Particulate Matter, Hydrogen Chloride, Opacity and Mercury to determine compliance with 40 CFR Part 63. The COMS shall record the monitoring data produced during a performance test required under 40 CFR Section 63.7 and include it in the test report.	40 CFR Section 63.7(a)(2) and 63.6(h)(7)
You must develop and submit a site-specific fuel analysis plan to the EPA Administrator for review and approval according to the following procedures and requirements in paragraphs (b)(1) and (2) of this section. (1) You must submit the fuel analysis plan no later than 60 days before the date that you intend to demonstrate initial compliance with 40 CFR Part 60, subp. DDDDD.	40 CFR Section 63.7521(b)
(2) You must include the information contained in paragraphs (b)(2)(i) through (vi) of this section in your fuel analysis plan. (i) The identification of all fuel types anticipated to be burned in each boiler or process heater. (ii) For each fuel type, the notification of whether you or a fuel supplier will be conducting the fuel analysis.	continued from above
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%. Such procedures shall provide a system check of all the analyzer's internal optical surfaces and all electronic circuitry, including the lamp and photodetector assembly normally used in the measurement of opacity according to 40 CFR Section 63.8(c). 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.	Minn. R. 7017.1210, subp. 2; 40 CFR Section 60.13(d); 40 CFR Section 60.48b(e)(1), 40 CFR Section 63.8(c)
For COMS, all optical and instrumental surfaces exposed to the effluent gases must be cleaned prior to performing the zero (low-level) and high-level drift adjustments; the optical surfaces and instrumental surfaces must be cleaned when the cumulative automatic zero compensation, if applicable, exceeds 4 percent opacity.	40 CFR Section 63.8(c)
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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
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 calender 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
RECORDKEEPING Recordkeeping under the MACT that applies after September 13, 2007 is specified below under "MACT Requirements."	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
MACT REQUIREMENTS This unit is subject to 40 CFR Part 63, subp. DDDDD. The Permittee must comply with the subp. no later than September 13, 2007.	hdr
(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section. (1) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to your boiler or process heater, except as provided under Section 63.7507. Emission limits are listed above. (2) You must meet each operating limit in Tables 2 through 4 to this subpart that applies to your boiler or process heater. If you use a control device or combination of control devices not covered in Tables 2 through 4 to this subpart, or you wish to establish and monitor an alternative operating limit and alternative monitoring parameters, you must apply to the United States Environmental Protection Agency (EPA) Administrator for approval of alternative monitoring under Section 63.8(f).Tables 2 through 4 for this unit require opacity monitoring and fuel analysis.	40 CFR Section 63.7500(a)
(b) As provided in Section 63.6(g), EPA may approve use of an alternative to the work practice standards in this section.	40 CFR Section 63.7500(b)
63.7505 General requirements for complying with this subpart.	hdr
(a) You must be in compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.	40 CFR Section 63.7505(a)
(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in Section 63.6(e)(1)(i) (Operation and maintenance requirements).	40 CFR Section 63.7505(b)
(c) You can demonstrate compliance with any applicable emission limit using fuel analysis if the emission rate calculated according to Section 63.7530(d) is less than the applicable emission limit. Otherwise, you must demonstrate compliance using performance testing.	40 CFR Section 63.7505(c)
(d) If you demonstrate compliance with any applicable emission limit through performance testing, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under Section 63.8(f). (1) For each continuous monitoring system (CMS) required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan that addresses paragraphs (d)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your CMS.	40 CFR Section 63.7505(d)
(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device); (ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and (iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).	continued from above

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii) of this section. (i) Ongoing operation and maintenance procedures in accordance with the general requirements of Section 63.8(c)(1), (c)(3), and (c)(4)(ii); (ii) Ongoing data quality assurance procedures in accordance with the general requirements of Section 63.8(d); and (iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of Section 63.10(c), (e)(1), and (e)(2)(i).	continued from above
(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan. (4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan. (e) If you have an applicable emission limit or work practice standard, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in Section 63.6(e)(3). The requirements for a startup, shutdown and malfunction plan are given in detail under the requirements table for GP004.	continued from above
(a) For affected sources that elect to demonstrate compliance with any of the emission limits of this subpart through performance testing, your initial compliance requirements include conducting performance tests according to Section 63.7520 and Table 5 (test methods) to this subpart, conducting a fuel analysis for each type of fuel burned in your boiler or process heater according to Section 63.7521 and Table 6 (fuel analysis methods) to this subpart, and conducting CMS performance evaluations according to Section 63.7525(requirements for COMs).	40 CFR Section 63.7510(a)
(b) For affected sources that elect to demonstrate compliance with the emission limits for HCl, mercury, or TSM through fuel analysis, your initial compliance requirement is to conduct a fuel analysis for each type of fuel burned in your boiler or process heater according to Section 63.7521 and Table 6 to this subpart and establish operating limits according to Section 63.7530 and Table 8 to this subpart.	40 CFR Section 63.7510(b)
40 CFR Section 63.7515: When you must conduct subsequent performance tests or fuel analyses	hdr
(a) You must conduct all applicable performance tests according to Section 63.7520 on an annual basis, unless you follow the requirements listed in paragraphs (b) through (d) of this section. Annual performance tests must be completed between 10 and 12 months after the previous performance test, unless you follow the requirements listed in paragraphs (b) through (d) of this section.	40 CFR Section 63.7515(a)
(b) You can conduct performance tests less often for a given pollutant if your performance tests for the pollutant (particulate matter, HCl, mercury, or TSM) for at least 3 consecutive years show that you comply with the emission limit. In this case, you do not have to conduct a performance test for that pollutant for the next 2 years. You must conduct a performance test during the third year and no more than 36 months after the previous performance test.	40 CFR Section 63.7515(b)
(c) If your boiler or process heater continues to meet the emission limit for particulate matter, HCl, mercury, or TSM, you may choose to conduct performance tests for these pollutants every third year, but each such performance test must be conducted no more than 36 months after the previous performance test.	40 CFR Section 63.7515(c)
(d) If a performance test shows noncompliance with an emission limit for particulate matter, HCl, mercury, or TSM, you must conduct annual performance tests for that pollutant until all performance tests over a consecutive 3-year period show compliance.	40 CFR Section 63.7515(d)
(f) You must conduct a fuel analysis according to Section 63.7521 for each type of fuel burned no later than 5 years after the previous fuel analysis for each fuel type. If you burn a new type of fuel, you must conduct a fuel analysis before burning the new type of fuel in your boiler or process heater. You must still meet all applicable continuous compliance requirements in Section 63.7540.	40 CFR Section 63.7515(f)

(g) You must report the results of performance tests and fuel analyses within 60 days after the completion of the performance tests or fuel analyses. This report should also verify that the operating limits for your affected source have not changed or provide documentation of revised operating parameters established according to Section 63.7530 and Table 7 to this subpart, as applicable. The reports for all subsequent performance tests and fuel analyses should include all applicable information required in Section 63.7550.	40 CFR Section 63.7515(g)
63.7520 Performance tests and procedures you must use.	hdr
(a) You must conduct all performance tests according to Section 63.7(c), (d), (f), and (h). You must also develop a site-specific test plan according to the requirements in Section 63.7(c) if you elect to demonstrate compliance through performance testing. (b) You must conduct each performance test according to the requirements in Table 5 to this subpart.	40 CFR Section 63.7520(a) and (b)
(d) You must conduct each performance test under the specific conditions listed in Tables 5 and 7 to this subpart. You must conduct performance tests at the maximum normal operating load while burning the type of fuel or mixture of fuels that have the highest content of chlorine, mercury, and total selected metals, and you must demonstrate initial compliance and establish your operating limits based on these tests. These requirements could result in the need to conduct more than one performance test.	40 CFR Section 63.7520(d)
(e) You may not conduct performance tests during periods of startup, shutdown, or malfunction. (f) You must conduct three separate test runs for each performance test required in this section, as specified in Section 63.7(e)(3). Each test run must last at least 1 hour. (g) To determine compliance with the emission limits, you must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A to part 60 of this chapter to convert the measured particulate matter concentrations, the measured HCl concentrations, the measured TSM concentrations, and the measured mercury concentrations that result from the initial performance test to pounds per million Btu heat input emission rates using F-factors.	40 CFR Section 63.7520(e), (f), and (g)
63.7521 Fuel analyses and procedures you must use.	hdr
(a) You must conduct fuel analyses according to the procedures in paragraphs (b) through (e) of this section and Table 6 to this subpart, as applicable.	40 CFR Section 63.7521(a)
(b) You must develop and submit a site-specific fuel analysis plan to the EPA Administrator for review and approval according to the following procedures and requirements in paragraphs (b)(1) and (2) of Section 63.7521.	40 CFR Section 63.7521(b)
(c) At a minimum, you must obtain three composite fuel samples for each fuel type according to the procedures in paragraph (c)(1) or (2) of section 63.7521.	40 CFR Section 63.7521(c)
(d) Prepare each composite sample according to the procedures in paragraphs (d)(1) through (7) of Section 63.7521.	40 CFR Section 63.7521(d)
(e) Determine the concentration of pollutants in the fuel (mercury, chlorine, and/or total selected metals) in units of pounds per million Btu of each composite sample for each fuel type according to the procedures in Table 6 to this subpart.	40 CFR Section 7521(e)
63.7525 Monitoring, installation, operation, and maintenance requirements.	hdr
(b) The Permittee must install, operate, certify and maintain each continuous opacity monitoring system (COMS) according to the procedures in paragraphs (b)(1) through (7) of this section by September 13, 2007. (1) Each COMS must be installed, operated, and maintained according to PS 1 of 40 CFR part 60, appendix B. (2) You must conduct a performance evaluation of each COMS according to the requirements in Section 63.8 and according to PS 1 of 40 CFR part 60, appendix B.	40 CFR Section 63.7525(b)

(3) As specified in Section 63.8(c)(4)(i), each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period. (4) The COMS data must be reduced as specified in Section 63.8(g)(2). (5) You must include in your site-specific monitoring plan procedures and acceptance criteria for operating and maintaining each COMS according to the requirements in Section 63.8(d). At a minimum, the monitoring plan must include a daily calibration drift assessment, a quarterly performance audit, and an annual zero alignment audit of each COMS.	continued from above
(6) You must operate and maintain each COMS according to the requirements in the monitoring plan and the requirements of Section 63.8(e). Identify periods the COMS is out of control including any periods that the COMS fails to pass a daily calibration drift assessment, a quarterly performance audit, or an annual zero alignment audit. (7) You must determine and record all the 6-minute averages (and 1-hour block averages as applicable) collected for periods during which the COMS is not out of control.	continued from above
63.7530 How to demonstrate initial compliance with the emission limits and work practice standards.	hdr
(a) You must demonstrate initial compliance with each emission limit and work practice standard that applies to you by either conducting initial performance tests and establishing operating limits, as applicable, according to Section 63.7520, paragraph (c) of this section, and Tables 5 and 7 to this subpart OR conducting initial fuel analyses to determine emission rates and establishing operating limits, as applicable, according to Section 63.7521, paragraph (d) of this section, and Tables 6 and 8 to this subpart.	40 CFR Section 63.7530(a)
(c) If you demonstrate compliance through performance testing, you must establish each site-specific operating limit in Tables 2 through 4 to this subpart that applies to you according to the requirements in Section 63.7520, Table 7 to this subpart, and paragraph (c)(4) of this section, as applicable. You must also conduct fuel analyses according to Section 63.7521 and establish maximum fuel pollutant input levels according to paragraphs (c)(1) through (3) of Section 63.7530(c), as applicable.	40 CFR Section 63.7530(c)
(d) If you elect to demonstrate compliance with an applicable emission limit through fuel analysis, you must conduct fuel analyses according to Section 63.7521 and follow the procedures in paragraphs (d)(1) through (5) of Section 63.7530(d).	40 CFR Section 63.7530(d)
(e) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in Section 63.7545(e).	40 CFR Section 63.7530(e)
63.7535 How to monitor and collect data to demonstrate continuous compliance.	hdr
(a) You must monitor and collect data according to this section and the site-specific monitoring plan required by Section 63.7505(d). (b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.	40 CFR Section 63.7535(a) and (b)
(c) You may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.	40 CFR Section 63.7535(c)
63.7540 How to demonstrate continuous compliance with the emission limits and work practice standards.	hdr
(a) You must demonstrate continuous compliance with each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that applies to you according to the methods specified in Table 8 to Subpart DDDDD and paragraphs (a)(1) through (10) of Section 63.7540(a).	40 CFR Section 63.7540(a)

(b) You must report each instance in which you did not meet each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that apply to you. You must also report each instance during a startup, shutdown, or malfunction when you did not meet each applicable emission limit, operating limit, and work practice standard. These instances are deviations from the emission limits and work practice standards in this subpart. These deviations must be reported according to the requirements in Section 63.7550. (c) During periods of startup, shutdown, and malfunction, you must operate in accordance with the SSMP as required in Section 63.7505(e).	40 CFR Section 63.7540(b) and (c)
(d) Consistent with Sections 63.6(e)and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with your SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in Section 63.6(e).	40 CFR Section 63.7540(d)
63.7545 Notifications to submit and when.	hdr
(a) You must submit all of the notifications in Sections 63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to you by the dates specified.	40 CFR Section 63.7545(a) and (b)
(d) If you are required to conduct a performance test you must submit a Notification of Intent to conduct a performance test at least 30 days before the performance test is scheduled to begin.	40 CFR Section 63.7545(d)
(e) If you are required to conduct an initial compliance demonstration as specified in Section 63.7530(a), you must submit a Notification of Compliance Status according to Section 63.9(h)(2)(ii). For each initial compliance demonstration, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to Section 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (9) of Section 63.7545, as applicable.	40 CFR Section 63.7545(e)
63.7550 What reports to submit and when	hdr
(a) You must submit each report in Table 9 (semi-annual compliance report) to this subpart that applies to you. (b) Unless the EPA Administrator has approved a different schedule for submission of reports under Section 63.10(a), you must submit each report by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.	40 CFR Section 63.7550(a) and (b)
(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in Section 63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in Section 63.7495. (2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in Section 63.7495. (3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.	continued from above
(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. (5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.	continued from above
(c) The compliance report must contain the information required in paragraphs (c)(1) through (11) of Section 63.7550.	40 CFR Section 63.7550(c)

(d) For each deviation from an emission limit or operating limit in this subpart and for each deviation from the requirements for work practice standards in this subpart that occurs at an affected source where you are not using a CMSs to comply with that emission limit, operating limit, or work practice standard, the compliance report must contain the information in paragraphs (c)(1) through (10) and the information required in paragraphs (d)(1) through (4) of Section 63.7550. This includes periods of startup, shutdown, and malfunction.	40 CFR Section 63.7550(d)
(e) For each deviation from an emission limitation and operating limit or work practice standard in this subpart occurring at an affected source where you are using a CMS to comply with that emission limit, operating limit, or work practice standard, you must include the information in paragraphs (c) (1) through (10) and the information required in paragraphs (e) (1) through (12) of Section 63.7550. This includes periods of startup, shutdown, and malfunction and any deviations from your site-specific monitoring plan as required in Section 63.7505(d).	40 CFR Section 63.7550(e)
(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.	40 CFR Section 63.7550(f)
63.7555 Records that must be kept.	hdr
(a) You must keep records according to paragraphs (a)(1) through (3) of this section. (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in Section 63.10(b)(2)(xiv). (2) The records in Section 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction. (3) Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in Section 63.10(b)(2)(viii).	40 CFR Section 7555(a)
(b) For each CEMS, CPMS, and COMS, you must keep records according to paragraphs (b)(1) through (5) of this section. (1) Records described in Section 63.10(b)(2) (vi) through (xi). (2) Monitoring data for continuous opacity monitoring system during a performance evaluation as required in Section 63.6(h)(7)(i) and (ii). (3) Previous (i.e., superseded) versions of the performance evaluation plan as required in Section 63.8(d)(3). (4) Request for alternatives to relative accuracy test for CEMS as required in Section 63.8(f)(6)(i). (5) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	40 CFR Section 7555(b)
(c) You must keep the records required in Table 8 to this subpart including records of all monitoring data and calculated averages for applicable operating limits such as opacity to show continuous compliance with each emission limit, operating limit, and work practice standard that applies to you. Table 8 contains requirements for opacity data collection for this unit.	40 CFR Section 63.7555(c)

(d) For each boiler or process heater subject to an emission limit, you must also keep the records in paragraphs (d)(1) through (5) of this section. (1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used. (2) You must keep records of monthly hours of operation by each boiler or process heater. This requirement applies only to limited-use boilers and process heaters.	40 CFR Section 63.7555(d)
(3) A copy of all calculations and supporting documentation of maximum chlorine fuel input, using Equation 5 of Section 63.7530, that were done to demonstrate continuous compliance with the HCl emission limit, for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of HCl emission rates, using Equation 9 of Section 63.7530, that were done to demonstrate compliance with the HCl emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum chlorine fuel input or HCl emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate chlorine fuel input, or HCl emission rate, for each boiler and process heater.	continued from above
(4) A copy of all calculations and supporting documentation of maximum TSM fuel input, using Equation 6 of Section 63.7530, that were done to demonstrate continuous compliance with the TSM emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of TSM emission rates, using Equation 10 of Section 63.7530, that were done to demonstrate compliance with the TSM emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum TSM fuel input or TSM emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate TSM fuel input, or TSM emission rates, for each boiler and process heater.	continued from above
(5) A copy of all calculations and supporting documentation of maximum mercury fuel input, using Equation 7 of Section 63.7530, that were done to demonstrate continuous compliance with the mercury emission limit for sources that demonstrate compliance through performance testing. For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation of mercury emission rates, using Equation 11 of Section 63.7530, that were done to demonstrate compliance with the mercury emission limit. Supporting documentation should include results of any fuel analyses and basis for the estimates of maximum mercury fuel input or mercury emission rates. You can use the results from one fuel analysis for multiple boilers and process heaters provided they are all burning the same fuel type. However, you must calculate mercury fuel input, or mercury emission rates, for each boiler and process heater.	continued from above
63.7560 What form and how long to keep records.	hdr
(a) Your records must be in a form suitable and readily available for expeditious review, according to Section 63.10(b)(1). (b) As specified in Sectioin 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. (c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to Section 63.10(b)(1). You can keep the records off site for the remaining 3 years.	40 CFR Section 63.7560(a), (b), and (c)
MACT GENERAL REQUIREMENTS	hdr
(1)(i) At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices.	40 CFR Part 63.6(e)(1)

The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved.	continued from above
Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section), review of operation and maintenance records, and inspection of the source.	continued from above
(ii) Malfunctions must be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.	continued from above
(3) Startup, shutdown, and malfunction plan. (i) The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control and monitoring equipment used to comply with the relevant standard. This plan must be developed by the September 13, 2007 and will comply with the requirments and procedures identified in Section 63.3.	40 CFR Part 63.6(e)(3)
(f) Compliance with nonopacity emission standards (1) Applicability. The non-opacity emission standards set forth in 40 CFR Part 63 shall apply at all times except during periods of startup, shutdown, and malfunction, and as otherwise specified in an applicable subpart. If a startup, shutdown, or malfunction of one portion of an affected source does not affect the ability of particular emission points within other portions of the affected source to comply with the non-opacity emission standards set forth in this part, then that emission point must still be required to comply with the non-opacity emission standards and other applicable requirements.	40 CFR Section 63.6(f)
(2) Methods for determining compliance. (i) The Administrator will determine compliance with nonopacity emission standards in this part based on the results of performance tests conducted according to the procedures in Section 63.7, unless otherwise specified in an applicable subpart of this part. (ii) The Administrator will determine compliance with nonopacity emission standards in this part by evaluation of an owner or operator's conformance with operation and maintenance requirements, including the evaluation of monitoring data, as specified in Section 63.6(e) and applicable subparts of this part.	continued from above
(iii) If an affected source conducts performance testing at startup to obtain an operating permit in the State in which the source is located, the results of such testing may be used to demonstrate compliance with a relevant standard if (A) The performance test was conducted within a reasonable amount of time before an initial performance test is required to be conducted under the relevant standard; (B) The performance test was conducted under representative operating conditions for the source;	continued from above
(C) The performance test was conducted and the resulting data were reduced using EPA-approved test methods and procedures, as specified in Section 63.7(e) of this subpart; and (D) The performance test was appropriately quality-assured, as specified in Section 63.7(c).	continued from above
MACT PERFORMANCE TESTING SUBMITTAL DEADLINES	hdr
Performance Test Notification: due 60 days before performance test.	40 CFR Section 63.7(b)
Performance Test Plan: due 60 days before performance test. The test plan must meet the requirements of 40 CFR Section 63.7(c) and shall include the use of blind audit samples provided by the Administrator.	40 CFR Section 63.7(c)
All performance tests performed for emission limits set by 40 CFR Part 63 shall meet the requirements of 40 CFR Section 63.7 (a) through (h).	40 CFR Section 63.7

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

Performance Test Report: due 60 days after performance test.	40 CFR Section 63.7(g)
OPERATION OF CONTINUOUS MONITORING SYSTEMS	hdr
(c) Operation and maintenance of continuous monitoring systems. (1) The owner or operator of an affected source shall maintain and operate each CMS as specified in this section, or in a relevant standard, and in a manner consistent with good air pollution control practices. (i) The owner or operator of an affected source must maintain and operate each CMS as specified in Section 63.6(e)(1). (ii) The owner or operator must keep the necessary parts for routine repairs of the affected CMS equipment readily available. (iii) The owner or operator of an affected source must develop and implement a written startup, shutdown, and malfunction plan for CMS as specified in Section 63.6(e)(3).	40 CFR Section 63.8(c)
(2)(i) All CMS must be installed such that representative measures of emissions or process parameters from the affected source are obtained. In addition, CEMS must be located according to procedures contained in the applicable performance specification(s). (ii) Unless the individual subpart states otherwise, the owner or operator must ensure the read out (that portion of the CMS that provides a visual display or record), or other indication of operation, from any CMS required for compliance with the emission standard is readily accessible on site for operational control or inspection by the operator of the equipment.	continued from above
(3) All CMS shall be installed, operational, and the data verified as specified in the relevant standard either prior to or in conjunction with conducting performance tests under Section 63.7. Verification of operational status shall, at a minimum, include completion of the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.	continued from above
(4) Except for system breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level calibration drift adjustments, all CMS, including COMS and CEMS, shall be in continuous operation and shall meet minimum frequency of operation requirements as follows: (i) All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.	continued from above
(6) The owner or operator of a CMS that is not a CPMS (continuous parameter monitoring system), which is installed in accordance with the provisions of this part and the applicable CMS performance specification(s), must check the zero (low-level) and high-level calibration drifts at least once daily in accordance with the written procedure specified in the performance evaluation plan developed under paragraphs (e)(3)(i) and (ii) of this section. The zero (low-level) and high-level calibration drifts must be adjusted, at a minimum, whenever the 24-hour zero (low-level) drift exceeds two times the limits of the applicable performance specification(s) specified in the relevant standard. The system shall allow the amount of excess zero (low-level) and high-level drift measured at the 24-hour interval checks to be recorded and quantified whenever specified.	continued from above

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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 before 06/17/2006, 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 before 06/17/2007 of Line 1 dryer, 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 before 06/17/2009 of Line 1 dryer, 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
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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)
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
Performance Test: due before 06/08/2006 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 Ainsworth OSB uncontrolled presses in Minnesota. As an alternative, the Permittee may decommission the Line 1 Press. 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: If the Line 1 Press is not decommissioned, the Permittee shall demonstrate compliance with the Plywood and Composite Wood Products NESHAP standard on the Line 1 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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

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

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

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor
Industrial 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:

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

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

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

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

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup 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 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 due 6/8/2006 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
Testing Frequency Plan	due 60 days after Performance Test for Particulate Matter less than 10 microns, Carbon Monoxide, and Volatile Organic Compounds. The testing frequency for Particulate Matter, Hydrogen Chloride, and Mercury is specified below under "MACT Requirements"	EU128

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

Testing Frequency Plan	due 60 days after 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

TABLE B: RECURRENT SUBMITTALS

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

Permit Number: 05700005 - 004

What to send	When to send	Portion of Facility Affected
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter starting 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 occured, the Permittee shall submit the report stating no deviations.	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

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, subps. 2, 3 and 4 and are not required to be listed in the permit.

Minn. R. 7007.1300, subp.	Rule Description of the Activity	General Applicable Requirement
3(H)(6)	Equipment used exclusively for melting or application of wax. *The facility has two 13,000 gal. emulsified was storage tanks*	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_{10}, NO_x, SO_2, and VOCs. *Emission units that qualify under this subpart include:* • *Bark piles* • *Radial stacker* • *Line 1 dryer emergency outfeeds* • *Line 2 dryer emergency outfeeds*	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_{10}, NO_x, SO_2, and VOCs. *Emission units at the Bemidji facility that qualify under this subpart include:* • *Parts washer – maintenance shop* • *Yard hog*	Minn. R. 7011.0715 (PM and opacity)

APPENDIX C

Modeling Parameters (as of 02/14/06)

Facility Name: Ainsworth Engineered (USA) LLC - Bemidji

ID	Description	Stack Height (ft)	Stack Temp. (°F)	Stack Exit Velocity (ft/min)	Stack Diam. (ft)	NO_x (lb/hr)	CO (lb/hr)	PM_{10} (lb/hr)
GP 001	Line 1 dryers	135	260	3898	7	51	15	12
GP 002	Line 2 dryers	135	260	1733	10.5	54	30	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	4	---	---	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	10.0

Appendix D
Fugitive Dust Control Plan

Appendix E
Applicability Analysis

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 05700005-004

This Technical Support Document (TSD) is intended for all parties interested in the draft/proposed 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 preliminary determination to issue the permit.

1. General Information

1.1. Applicant and Stationary Source Location:

Applicant/Address	Stationary Source/Address (SIC Code: **2493**)
Ainsworth Engineered (USA) LLC Suite 3194 Bentall 4 1055 Dunsmuir Street, PO Box 49307 Vancouver, BC Canada V7X 1L3	29647 US Highway 2 East Bemidji, MN 56601 Hubbard County
Contact: **Mr. Michael Twite** Phone: **(218) 327-3655**	Contact address: 502 County Road 63 Grand Rapids, MN 55744

1.2. Description of the Permit Action

PERMIT ACTION 001 (Total Facility Permit):

Ainsworth Engineered (USA) LLC (Ainsworth) owns and operates an Oriented Strandboard (OSB) manufacturing facility in Hubbard County, Minnesota (Facility); the Facility is located approximately 10 miles southeast of Bemidji, Minnesota on Highway 2. The 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 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 Facility's pollution control equipment and main pollutants of concern are as follows: the Line 1 rotary dryers and associated burners are sources of Particulate Matter (PM and PM_{10}); Volatile Organic Compounds (VOCs); Carbon Monoxide (CO); and Nitrogen Oxides (NO_x). The dryers and burners are currently controlled by two Wet Electrostatic Precipitators (WESP) followed by a Regenerative Thermal Oxidizer (RTO) which controls PM, PM_{10}, VOCs and CO. The Line 2 dryers are also sources of PM, PM_{10}, VOCs, CO and NO_x. Each dryer is controlled by a WESP (for PM and PM_{10}) and a dryer inlet temperature limitation, which serves to limit VOC emissions. The presses are uncontrolled and are primarily sources of VOC, PM and PM_{10}. The co-generation boiler is controlled by a cyclone and an electrostatic precipitator (ESP) for control of particulates and Selective Non-Catalytic Reduction (SNCR) for control of NO_x. The back-up Keeler boilers are sources of PM, PM_{10}, VOC, CO and NO_x and were controlled by multiclones and an Electrostatic Filter Bed (EFB) prior to switching to natural gas only as a fuel; 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 (the previous owner) proposed to modify the Facility with a permit modification that was being incorporated into the Title V permit. Potlatch has plans to install two additional burners on the Line 1 dryer system and installed a thermal oxidizer on the Line 2 dryer system. Installation of the oxidizer allowed the Facility to remove the temperature limit on the Line 2 dryers previously established as a Best Available Control Technology (BACT) limit. These modifications resulted in increased production for the Facility.

PERMIT ACTION 002 (Administrative Amendment):

Permit action 002 changed ownership of the Facility from Potlatch Corporation to Ainsworth Engineered (USA) LLC.

PERMIT ACTION 003 (Administrative Amendment):

Permit action 003 extended a testing deadline for the Line 2 rotary drying system.

The action also removed the language regarding Clean Units. On June 24, 2005, the D.C. Circuit Court issued a decision on challenges to the 2002 NSR Reform rules. The court vacated the clean unit and pollution control project provisions of 40 CFR 52.21.

1.3 Description of the Activities Allowed by this Permit Action

This permit action incorporates two major amendment applications. One application requested an increase in the CO limit for the emissions from the Line 2 Rotary Dryers. The CO emissions limit was established in support of a recent dryer improvement project that was incorporated into the Title V permit issued in June of 2004. That project resulted in an increase in production at the Facility.

The previous CO emission limit was set at 15 pounds per hour. Ainsworth requested the increase because stack testing showed that this limit would be difficult to meet for two reasons; the thermal oxidizer would need to be run at a temperature that was too high for sustained operation, and the dryer system needed higher air flows than originally planned for. The dryer air flow originally planned caused fires within the dryer. The higher air flows would reduce the residence time in the thermal oxidizer, and result in higher CO emissions. It was not necessary to change the existing CO BACT limit of 1.8 pounds per oven dried tons of product. The updated applicability analysis showed that the higher emission rate did not result in a change in applicability completed in support of the 2004 permit.

This permit action also incorporates the requirements of 40 CFR pt. 63, Subp. DDDDD for the boilers on site. With an application submitted December 15, 2005, Ainsworth requested that the requirements for Subp. DDDDD and Subp. DDDD (Plywood and wood composites maximum achievable control technology (MACT)) be incorporated into its Title V permit. Only Subp. DDDDD requirements are included in this permit because since Ainsworth applied for the amendment, the compliance date for Subp. DDDD has been extended one year through an U.S. Environmental Protection Agency (EPA) action taken January 31, 2006. Since the EPA may change the compliance options, the Subp. DDDD requirements are not included in this permit.

Also incorporated into this permit action are the deletion of requirements that have been fulfilled and the specification of dates for many of the stack emission test requirements.

Lastly, as a compliance option for the applicable MACT standard, Ainsworth has requested that the Keeler boilers be limited to burning natural gas only. This permit sets that requirement and removes the requirements for stack emission testing and operation of particulate control equipment.

1.4. Facility Emissions:

Table 1. Title I Emissions Increase Summary

Pollutant	Projected Actual Increase from the Modification(tpy)	Past Actual Emissions (tpy)	Exclusions from Projected Actuals (tpy)	Net Emissions Increase (tpy)	PSD/112(g) Significant Thresholds for major sources	NSR/112(g) Review Required? (Yes or No)
CO	106.9	46.2	1.3	59.3	100	No

* Other emission changes during the contemporaneous period as defined by 40 CFR § 52.21, 40 CFR § 52.24 or 40 CFR pt. 51.

Table 2. Total Facility Potential to Emit Summary:

	PM tpy	PM_{10} tpy	SO_2 tpy	NO_x tpy	CO tpy	VOC tpy	Total HAPs tpy
Line 1 Dryers	53	53	1.8	220	66	79	43
Line 1 Press	66	66	--	11	20	66	32.4
Line 2 Dryers	53	53	15	240	131	57	43
Line 2 Press	44	44	--	11	20	66	31.8
Keeler (back-up) Boilers	0.13	0.13	0.01	1.71	1.44	0.094	0.032
Co-generation Boiler	31	31	25	200	200	81	13
Baghouse-controlled systems	33	33	--	--	--	15	29
Fugitive Sources	12	1.9	--	--	--	--	--
Total Facility Limited Potential Emissions	292	282	41.8	684	438	365	192

Table 3. Facility Classification

Classification	Major/Affected Source	Synthetic Minor	Minor
PSD	PM, PM_{10}, NO_X, CO, VOC		SO_2
Part 70 Permit Program	PM_{10}, NO_X, CO, VOC, HAPs		SO_2

2. Regulatory and/or Statutory Basis

New Source Review

Changing the CO limit for the Line 2 Dryers from 15 lb/hour to 30 lb/hour does not render the modification a significant net emission increase under 40 CFR § 52.21.

Part 70 Permit Program

The Facility is an existing major source under 40 CFR Part 70 and Minn. R. 7007.0200. This amendment does not change the status of the Facility.

New Source Performance Standards (NSPS)

The co-generation boiler is subject to 40 CFR Part 60, subp. Db.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

This amendment incorporates the requirements for Commercial and Institutional Boilers, 40 CFR Part 63, Subp. DDDDD.

Minnesota State Rules

Minnesota Performance Standards are not triggered by this modification.

Table 4. Regulatory Overview of Units Affected by the Modification/Permit Amendment

EU, GP, or SV	Applicable Regulations	Comments:
GP002 Line 2 Dryers	Title I Condition: 40 CFR § 52.21(j) BACT; Minn. R. 7007.3000	Dispersion modeling for the Facility included emissions of 40 lb/hour of CO for this unit. This permit changes the limit from 15 lb/hour to 30 lb/hour. Since the modeled emissions were higher than the new emission limit, no re-modeling is required for this change.
EU128, EU100 and EU101 Cogeneration Boiler and Keeler Boilers	40 CFR Part 63, Subp. DDDDD	National Emission Standards for Hazardous Air Pollutants are incorporated into this permit.

2. Technical Information

Removal of stack testing requirements for the Keeler Boilers (GP003, EU100 and EU101): The emission limits for the boilers are as follows:

Pollutant	Emission Limit Lb/mmBtu	AP42 Factor Lb/mmBtu
PM	0.085	0.007
PM10	0.085	0.007
CO	1.1	0.08
NOx	0.4	0.095
VOCs	0.3	0.0052

Potential emissions for the boilers are conservatively calculated using the emission limits and the restricted operation, which is equal to 450 hours per year if operated at maximum capacity.

3.1 Calculations of Potential to Emit

Emission calculations are attached.

3.2 Comments Received

Public Notice Period: April 29, 2006 – May 30, 2006
EPA 45-day Review Period: April 29, 2006 – June 15, 2006

The Ainsworth Engineered (Ainsworth) Bemidji permit came off of public notice on May 30, 2006. Two comment letters were received and one phone call. A summary of the comments, the Agency's responses, and a proposed course of action follow below.

Comment Letter 1:

Comment 1.1: An increase in the carbon monoxide limit would be an increase in our health risks, and that money shouldn't be taken into consideration when there is a health issue (summarized).

Response 1.1: Ainsworth has performed air dispersion modeling in support of the permit granting modification approval for Process Line #2. The dispersion modeling was performed assuming a 40 lb/hour emission rate of carbon monoxide from the Line #2 thermal oxidizer.

The results of the modeling showed that the total facility's impact on surrounding carbon monoxide concentration would be 5031 □g/m^3 on a 1-hour average, and 2907 μg/m^3 on an 8-hour average. The corresponding ambient standards for the 1-hour and 8-hour average are 40,000 μg/m^3 and 10,000μg/m^3 respectively. This modeling showed that the facility's impact was 13% of the 1-hour standard, and 29% of the 8-hour standard.

It is important to also consider that the dispersion modeling for the facility was performed assuming an emission rate of 150 lb/hour of carbon monoxide from the Keeler Boilers. With this amendment restricting fuel use to natural gas only, the emission rate predicted using EPA's emission factors is

approximately 11 lb/hour. So, the total emission rate of carbon monoxide from the facility will be reduced, not increased.

Comment Letter 2:

Comment 2.1: Leech Lake Band of Ojibwe (Leech Lake) is concerned that it is only hearing about the CO non-compliance six months after the problem which led to this amendment.

Response 2.1: The Minnesota Pollution Control Agency enacted a policy on June 1, 2006 committing to engaging interested Indian Tribes early on in the air emission permitting process; prior to permit drafting. The Agency is interested in gaining the input of and providing early notification to the Tribes in the permitting process.

Ainsworth has also verbally committed to the Leech Lake Band of Ojibwe that it will notify the Tribe in the future should there be future stack emission test failures.

Comment 2.2: What is not addressed in the permit is dioxins. It is widely acknowledged that dioxins are created and emitted in the combustion process. Ainsworth has not quantified its dioxin emissions, rather consolidating them in with the other hazardous air pollutants. This is a chemical of concern for Leech Lake and an air toxic we are currently monitoring. Leech Lake requests the air toxics (be) examined and quantified for the Ainsworth Facility.

Response 2.2: Leech Lake is correct in asserting that dioxins are created and emitted in the combustion process. The sources at the site that may produce dioxins are any of the sources where wood is combusted.

The U.S. EPA has developed a national emission standard for hazardous air pollutants (NESHAP) standard for this source category. In its rulemaking, EPA identified the following pollutants as being of major concern from this type of emission source: Acetaldehyde, Formaldehyde, Acrolein, Phenol, Methanol, and Propionaldehyde. Nowhere in its documentation are dioxins mentioned as one of the pollutants of concern.

In EPA's AP42 Emission Factors document, it does not identify dioxins as a pollutant emitted from engineered wood product sources either, except for emission sources where wood is combusted. Primary sources of emissions from engineered wood product sources are the boilers, dryers and presses.

Because Ainsworth uses wood as a fuel type, it estimates and reports its dioxin emissions on an annual basis to both Federal and State regulatory agencies. The Federal Toxic Release Inventory (TRI) report contains estimates of this facility's emissions from 2000 to present. The same information is submitted to the State of Minnesota and is available at www.epcra.state.mn.us. TRI data is provided for both total dioxin and dioxin-like compounds. This does not provide adequate data to address toxicity which varies significantly on a species basis for this chemical group. This TRI data has been provided to the Leech Lake Band of Ojibwe, via fax in response to its comments.

It should be noted that the proposed permit includes changes that will reduce emissions from wood combustion (the change of the Keeler Boilers to natural gas only), and subjects the facility to more stringent requirements.

Comment via Phone:

Comment 3.1 (Summarized): There is a lot of smoke in the air from the facilities, and they shouldn't be allowed to emit more.

Response 3.1: Many of the processes produce steam at the plant. The dryers produce a steam plume, as do the presses. It is possible that the observed smoke is really a steam plume.

Ainsworth has performed stack emission testing to demonstrate compliance with its emission limits. Below is a table that shows the emission limits, and the stack emission results. Ainsworth is in compliance with its emission limits.

Emission Unit	Emission Limit	Stack test results	Date
Line 2 Rotary Dryers	CO: 15 lb/hour 1.8 lb/ODT	CO: 8.39 lb/hour* 1.6 lb/ODT	02/08/2006 11/1-2/2005
	PM: 12 lb/hour 0.86 lb/ODT	PM: 4.1 lb/hour 0.17 lb/ODT	11/1-2/2005 11/1-2/2005
	NOx: 54 lb/hour 0.4 lb/mmBtu	NOx: 12.4 lb/hour 0.10 lb/mmBtu	11/1-2/2005 11/1-2/2005
	VOC: 13 lb/hour 0.44 lb/ODT	VOC: 2.3 lb/hour 0.10 lb/ODT	11/1-2/2005 11/1-2/2005
Line 1 Rotary Dryers	CO: 15 lb/hour 0.49 lb/ODT	CO: 3.98 lb/hour 0.14 lb/ODT	09/16/2004 9/16/2004
	PM: 24.8 lb/hour	PM: 1.39 lb/hour	10/28/2003
	VOC: 15 lb/hour 0.6 lb/ODT	VOC: 2.23 lb/hour 0.08 lb/ODT	09/16/2004 09/16/2004

Line 1 Press Vent	PM: 10.27 lb/hour VOC: 30 lb/hour	PM: 0.0805 lb/hour VOC: 9.55 lb/hour	04/17/2003 04/17/2003
Line 2 Press Vent	CO: 4.5 lb/hour 0.15 lb/TFP PM: 10 lb/hour 0.34 lb/TFP VOC: 15 lb/hour 0.61 lb/TFP	CO: 0.27 lb/hour 0.010 lb/TFP PM: 1.37 lb/hour 0.018 lb/TFP VOC: 14.72 lb/hour 0.55 lb/TFP	06/7-8/2005 06/7-8/2005 06/7-8/2005 06/7-8/2005 06/7-8/2005 06/7-8/2005
Co-Generation Boiler	CO: 0.2 lb/mmBtu PM: 0.03 lb/mmBtu VOC: 0.08 lb/mmBtu	CO: 0.03 lb/mmBtu PM: 0.002 lb/mmBtu VOC: 0.004 lb/mmBtu	07/22/1992 07/22/1992 07/22/1992

* Stack emission testing was performed that met the 15 lb/hour emission limit. However, this result was obtained while operating the thermal oxidizer at temperatures above manufacturer's recommendations.

Where: ODT = Oven Dried Tons

TFP = Tons Finished Product

mmBtu = million British Thermal Units

Comment 3.2: There are particles that build up on cars and it smells downwind of the facility.

Response 3.2: It is likely that emissions from the presses may be the source of the odors and possibly some of the particulate matter. U.S. EPA has proposed a new performance standard which will require control of the presses (40 CFR Part 63, Subp. DDDD). The regulation will set emission limits that go into effect on October 1, 2008. Ainsworth has committed to meeting the NESHAP standard requirements its Line 2 press one year prior to that date, or October 1, 2007.

The regulation requires control of HAP emissions from the dryers and presses. The regulation also requires the use of non-HAP containing coatings for the edge sealing. Currently, the facility is controlling emissions from the dryers with electrostatic precipitators and thermal oxidizers that likely meet the requirements of the NESHAP regulation. Though

the regulation has not yet gone into effect, it is likely that the presses will be required to be controlled by thermal oxidizers as well, resulting in a substantial decrease in emissions from those sources. The facility is currently using non-HAP containing materials for its edge coating.

It should also be noted that there exist a lumbermill and an asphalt plant in the vicinity, and it is not clear that the Ainsworth facility is responsible for all odors and particulate matter emissions in the area.

4. 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. 05700005-004, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Jenny Reinertsen (permit writer/engineer)
Cary Hernandez (enforcement)
Andrew Place (stack testing)
Paula Connell (peer reviewer)

Attachments: Emission Calculations