AIR EMISSIONS LICENSE APPLICATION
PROPOSED ADVANCED BIOFUEL WOOD PELLET PRODUCTION FACILITY

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MILLINOCKET, MAINE

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1.0 INTRODUCTION

1.1 PROJECT SUMMARY

Thermogen I, LLC (Thermogen) is proposing to construct and operate an advanced biofuel pellet manufacturing facility to be located at the site of the former Great Northern Paper Company mill in Millinocket, Maine. The product is intended to provide a renewable fuel that can be directly co-fired with coal or used as a complete replacement fuel. Most of the equipment for the new process will be housed within the existing mill buildings, as all paper manufacturing operations at this site have ceased. The former wood yard area located on the northern end of the property will be expanded and once again used for delivery and storage of wood chips. The location of the proposed facility is shown in ***Figure 1***.

Thermogen previously obtained an air emission license for the manufacture of torrefied wood pellets (License No. A-1072-77-2-A). Thermogen is proposing to modify that license to accommodate a slightly modified manufacturing process and a higher overall production rate. The end product will be similar to the torrefied wood product original slated for production, but will be produced using a steam thermal treatment process rather than the microwave process approved in the existing air emissions license.

The application form is included in ***Appendix A***.

1.2 PROCESS AND EQUIPMENT DESCRIPTION

A general process flow diagram for the proposed Thermogen facility is included as ***Figure 2***. ***Figures 3 and 4*** show the project site and equipment layouts, respectively. Thermogen plans to process up to 458,000 oven-dried tons per year of wood chips[1] (equivalent to approximately 833,000 tons as received) received via truck at the facility site. The biomass to be received and processed at the facility is low grade fiber produced from the portions of the tree that are not suitable for dimensional lumber or pulp chips; it is the same material typically used by wood-fired utility boilers and is often left in the woods as a forestry waste by-product when ample demand does not exist. The wood chips will arrive on site at approximately 45 percent moisture content (expected annual average). Upon delivery, wood chips will be deposited via two truck dumpers and front end loader to a paved storage pad. From the storage area, the biomass will be conveyed via covered conveyor to two hammermills, to produce chips that will pass through a half-inch screen. The hammermills and all other process equipment through to pellet production will be installed within buildings located on the south end of the site. From the hammermills, the chips will be conveyed to a wet chip storage silo and then onto a metering bin via covered belt conveyors. From the metering bin the wood chips will be fed into a single-pass rotary dryer. The rotary dryer will dehydrate wet wood chips to a moisture content of approximately 5 percent. Heat for the dryer will be produced by a dry wood dust burner rated at 160 million British thermal units per hour (MMBTU/hr) (at the annual average wood chip moisture content of 45%, the normal operating rate of the wood dust burner will be about 115 MMBTU/hr).

[1] For the purposes of this this application, oven dry tons (ODT) means wood with 0 percent moisture. The actual moisture content varies throughout the process.

From the rotary dryer, the dry wood chips and exhaust gases will be separated via a bank of four cyclones. A portion of the exhaust gas will be recirculated back through the dryer. The remainder of the exhaust gas will be directed to a wet electrostatic precipitator (WESP) followed by a regenerative thermal oxidizer (RTO) before being exhausted to the atmosphere. Dry wood chips from the cyclones will be directed to a dry wood chip storage silo.

From dry chip storage silo, a small portion of the wood chips will be directed to a hammermill where they will be reduced in size for use as fuel in the rotary dryer's wood dust burner. The majority of the dried wood chips will be pneumatically conveyed to the steam thermal treatment process area, where the chips will be treated with high pressure steam in one of six thermal treatment pressure vessels. After being "cooked" for a designated period of time (on the order of several minutes), the chips will be discharged from the pressure vessels and flash depressurized into a blow tank to break up the wood structure. The exhaust from the blow tank will also be routed through two high-efficiency cyclones to remove the majority of any entrained wood particles and then to the WESP and RTO. Steam for the thermal treatment island will be supplied by a 42.6 MMBTU/hr boiler that will be fueled by compressed natural gas (CNG) delivered to the site by truck. The CNG will also be used as supplemental fuel for the RTO as process conditions and thermal demand dictates to maintain the unit's combustion temperature (projected to be about 4 MMBTU/hr on an annual average basis).

From the thermal treatment island, the biomass will pass through grinders to reduce the particle size and then to the pellet mills and pellet coolers. "Aspiration air" will be drawn from the pellet mills (approximately 2,600 CFM from each of the six pellet mills) to capture any fumes generated in the pelletizing process and will be directed to the dryer burner for use as combustion air. A much larger volume of air will be drawn through the pellet coolers (approximately 30,000 CFM from each of the two pellet coolers) and will be directed through high-efficiency cyclones for particulate matter removal prior to discharge to the air. From the coolers, the pellets will pass through a screening process to remove fines and then transported by covered conveyor to a loadout station for rail shipment.

In addition to the WESP/RTO, boiler, and pellet cooler cyclones, the emission points will include a baghouse on the pneumatic conveying system handling the wood dust produced by the dry fuel hammermill, the dry chip pneumatic transfer system baghouse, and the pellet system fines pneumatic transfer system baghouse.

1.3 CONSTRUCTION SCHEDULE

Thermogen expects to begin construction following issuance of the necessary modified permits by Maine DEP and the Town of Millinocket.[2] Construction of the proposed facility will take approximately one year. Thermogen anticipates that the facility will be operational in the fourth quarter of 2015.

1.4 PROPOSED PROCESS LIMITS

Thermogen is proposing the following limits to the production process, which are reflected in the emissions estimates for the facility:

[2] Thermogen is filing a minor amendment application to Maine DEP for modification of the Site Location of Development Approval previously issued by DEP, as well as an application to modify its Site Plan Approval with the Town of Millinocket. These processes are expected to be complete by the end of July 2014.

Raw material: Thermogen is proposing a limit of 458,000 oven dry tons (ODT) per year of material processed through the dryer, as measured at the dryer outlet.

Natural gas firing: Thermogen is proposing to limit natural gas firing in the steam boiler and RTO to a total of 380 million standard cubic feet/yr (MMSCF/yr), which is equivalent 387,805 MMBTU/yr at 1020 British thermal units per standard cubic foot.

Finished product: Thermogen is proposing to limit total production of final product to 387,805 ODT per year as measured at the rail car loading operation.

1.5 PROCESS MONITORING

In addition to the weighing equipment necessary to monitor raw material and fuel input and product output as described in ***Section 1.4***, Thermogen proposes to monitor pressure drop across all baghouses and cyclones and the temperature in the RTO combustion chamber in order to ensure that control equipment is functioning as intended. For the WESP, Thermogen is proposing to monitor secondary voltage, quench inlet temperature, and WESP outlet temperature.

2.0 EMISSIONS DATA

2.1 CRITERIA POLLUTANTS

Post-control annual emissions are presented by source and emissions point in ***Table 1***. Post-control maximum hourly emissions are presented by source and emission point in ***Table 2***.

A comparison of the facility's potential emissions to the major source thresholds and the significant emission rate thresholds is provided in ***Table 3***. As shown in ***Table 3***, the proposed facility is a new major source under Chapter 115 of Maine Department of Environmental Protection's (MEDEP) air regulations, due only to its potential annual emissions of Volatile Organic Compounds (VOC) and carbon dioxide equivalents (CO2e). As previously approved, only the facility's VOC emissions exceeded the major source threshold. Although still above the major source threshold, the facility's VOC emissions have been reduced under the modified project design due to the introduction of the RTO to further abate process emissions. While the facility's annual potential CO2e emissions exceeds the major source threshold, these emissions are predominantly from the combustion of wood in the dryer's burner system; emissions that EPA had previously deferred from consideration in permitting.

Emissions have been calculated based on data provided by select equipment manufacturers; emissions testing on a plant of very similar design operated by the licensor of the steam thermal treatment process, Zilkha Biomass; published emission factors; and engineering estimates. All air pollution control efficiency data are based on vendor data. Supporting calculations and notes for emissions data presented in ***Tables 1 - 3*** are included in ***Appendix B***.

2.2 HAZARDOUS AIR POLLUTANTS

Hazardous Air Pollutant (HAP) emissions are summarized in ***Table 4***. Emissions have been estimated using National Council for Air and Stream Improvement emission factors for OSB dryers, as presented in the original application for the facility; dryer vendor emissions data for formaldehyde; emissions testing on a plant of very similar design operated by the licensor of the steam thermal treatment process, Zilkha Biomass; published emission factors, and engineering estimates. Based on the emissions presented in ***Table 4***, the proposed Thermogen facility will be a major source for HAP and is subject to the case-by-case Maximum Achievable Control Technology (MACT) requirements of Section 112(g) of the Clean Air Act. Supporting calculations for the data presented in ***Table 4*** are included in ***Appendix B***.

3.0 APPLICATION REQUIREMENTS

Chapter 115 incorporates New Source Review requirements for major sources pursuant to Title I, Part C (Prevention of Significant Deterioration or PSD) and Part D (Nonattainment New Source Review or NNSR) of the Clean Air Act. The Thermogen facility, as currently licensed, exceeds the major source threshold for VOC. Since construction of the facility has not commenced, there is no existing stationary source to modify, and the facility emissions must be compared to the thresholds for new major sources to determine applicability of the major source licensing requirements. Based on the proposed modifications to the facility design, the Thermogen facility will exceed major source thresholds for volatile organic compounds (VOCs) and carbon dioxide equivalents. Therefore, it subject to the major source permitting requirements.

Licensing procedures and standard license conditions for new major sources are described in Section (4)(A) of Chapter 115. The application must include the following:

1. Application Notification. Thermogen must hold a public information meeting, publish a public notice of Intent to File, and submit a copy of the notice to all abutting land owners. A public information meeting was held in the Town of Millinocket on April 10, 2014. The public notice for the public information meeting was published in the Bangor Daily news on April 3, 2014 and sent via certified mail to all abutters of the facility. A public notice of intent to file the air emissions license application was published in the Bangor Daily News on May 15, 2014 and was sent to all abutting landowners. A copy of the application must be sent to any Federal Land Managers of Class 1 areas within 50 kilometers of the facility. There are no Class 1 areas within 50 kilometers of the proposed Thermogen Facility. Documentation of notifications is included in ***Appendix A***.
2. Thermogen must submit the appropriate application form as prescribed by MEDEP. The application form is included in ***Appendix A***.
3. The application must include a description of the nature, location (identified on an original U.S. Geological Survey Topographical map), plot plan, building dimensions, and any other information required by the Department in the application. These are provided in ***Figures 1 - 5*** and in modeling files submitted electronically to MEDEP.
4. The application must include a schedule for construction of the new major source. The construction schedule is discussed in ***Section 1.3***.
5. The application must include a BACT, LAER, and MACT Analysis, as applicable. These emissions standards must be applied to all regulated pollutants from such emission units, and includes fugitive as well as stack emissions. The control technology analysis is included in ***Section 4.0***.

6. The application must describe all process control and compliance monitoring devices or activities, and any other emission reduction system planned by the owner or operator for a new minor source and such other information required to accurately establish emission estimates, and to document future compliance. The proposed equipment is described in ***Section 1.2*** and the proposed operational limits are described in ***Section 1.4***.

7. The application must include a Growth Analysis if emissions of sulfur dioxide (SO_2), particulate matter less than 10 microns in diameter (PM_{10}), and/or nitrogen oxides (NOX) are considered major. Thermogen does not exceed the major threshold for any of these pollutants; however, growth impacts are discussed in additional impacts analysis in ***Section 6.14***.

8. The application must include a title, right or interest demonstration. Thermogen is working with the property owner, GNP West, Inc., to finalize a lease agreement for the portions of the site that will be utilized by the facility.

9. The applicant must perform pre-construction air monitoring or obtain a waiver. Thermogen is requesting a waiver from pre-construction monitoring. The waiver request is included in ***Section 6.11***.

10. The application must include the results of an ambient air quality impact analysis. The ambient impact analysis is included in ***Section 6.0***. The ambient impact analysis includes an evaluation of compliance with Maine Ambient Air Quality Standards (MAAQS) and National Air Quality Standards (NAAQS), Prevention of Significant Deterioration (PSD) allowable increments, and an additional impacts analysis.

11. The application must be certified by a responsible official. The certification is included on the application form in ***Appendix A***.

4.0 BEST AVAILABLE CONTROL TECHNOLOGY / LOWEST ACHIEVABLE EMISSION RATE/MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Per Chapter 100 of Maine's air pollution control rules, Best Available Control Technology is:

> [A]n emission limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant emitted from or which results from the new or modified emission unit which the Department on a case-by-case basis, taking into account energy, environmental and economic impacts and other costs, determines is achievable for such emissions unit through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combination techniques for control of each pollutant. In no event shall application of BACT result in emissions of any pollutant which would exceed the emissions allowed by any applicable standard under 40 CFR Part 60 or 61 or any applicable emission standard established by the Department. If the Department determines that technological or economic limitations on the application of measurement methodology to a particular emission unit would make the imposition of an emission standard infeasible, a design, equipment, work practice, operational standard or combination thereof may be prescribed instead to satisfy the requirement for the application of BACT. Such standard shall, to the degree possible, set forth the

> emission reduction achievable by implementation of such design, equipment, or work practice or operation, and shall provide for compliance by means which achieve equivalent results.

Per Chapter 100, LAER or Lowest Achievable Emission Rate means the more stringent rate of emissions based on the following:

> The most stringent emission limitation which is contained in the implementation plan of any State for that class or category of source, unless the owner or operator of the proposed source demonstrates that those limitations are not achievable; or
>
> The most stringent emission limitation which is achieved in practice by that class or category of source, whichever is more stringent. In no event may LAER result in emission of any pollutant in excess of those standards and limitations promulgated pursuant to Section 111 or 112 of the United States Clean Air Act as amended, or any emission standard established by the Department.

A review of published BACT/LAER databases, guidance documents, rules and permits for similar facilities was performed for processes and equipment similar to that included in the proposed facility. The sources consulted included the following:

- USEPA's RACT/BACT/LAER Clearinghouse;
- New Jersey State-of-the-Art Manual;
- Massachusetts BACT guidance;
- South Coast Air Quality Management District BACT Guidelines; and
- Permits for facilities in the northeast with similar equipment.

4.1 BACT/LAER FOR MAIN PROCESS STREAM

The main process stream consists of the dry wood dust burner/rotary dryer and steam thermal treatment process. Air from the pellet mill aspiration system will also be used as combustion air and/or makeup air in the dry wood dust burner in order to provide VOC control without increasing the overall air flow through the pollution control system. The dryer exhaust will contain VOC, filterable particulate matter, condensable organic matter, carbon monoxide, oxides of nitrogen, and a very small amount of sulfur oxides from the dry wood dust burner. The thermal treatment process will add additional VOC and particulate matter. The pellet mill aspiration exhaust will include VOC and particulate matter. The pellet mill aspiration system exhaust will pass through a fabric filter prior to being introduced into the dry wood dust burner.

Overall, the characteristics of the main process exhaust that affect the selection of pollution control equipment include high moisture levels and the presence of both condensable and filterable particulate matter.

Condensable organics may be measured as VOC or particulate matter, depending on the measurement technique and the flue gas conditions. The dual nature of condensable organics requires an integrated approach to VOC and particulate matter control for the main process exhaust.

Although the Thermogen facility will be one of the first of its kind (Zilkha Biomass operates a plant of very similar design in Crockett, Texas and is constructing a plant of similar size to the Thermogen facility in Selma, Alabama) and will produce a unique product, the drying process to be used by Thermogen is similar to biomass dryers used for the production of standard wood pellets and for the production of OSB, both of which present the same challenging conditions for air emissions control. Both pellet production and OSB production facilities have been included in the BACT/LAER review.

4.1.1 Particulate Matter

Methods of controlling particulate emissions include electrostatic precipitators, fabric filters, wet scrubbers, exhaust gas recycle, cyclone(s), and good combustion/operation practices. Fabric filters and electrostatic precipitators are generally considered the most effective particulate control technologies and achieve the highest control efficiencies.

Fabric Filters

Fabric filters collect particulate matter on the surface of filter bags or cartridges and are capable of collection efficiencies greater than 99 percent, depending on the size range of the particulate matter, the filter material, and air flow. It is theoretically possible to control particulate emissions from wood dryers and similar processes using fabric filters; however both moisture and condensable organic matter have a significant detrimental impact on operational performance as they can result in blinding of the fabric filter. Based on the high levels of moisture and condensable organics in the dryer exhaust and in the high level of moisture in the thermal treatment exhaust, fabric filters are considered technically infeasible in this application.

Thermal Oxidation

Thermal oxidizers destroy condensable particulate matter by combusting it at high temperatures. Thermal oxidizers also reduce CO emissions by oxidizing the CO in the exhaust to carbon dioxide (CO_2). For processes with large exhaust flows, regenerative thermal oxidizers (with or without catalytic media) are used almost exclusively due to their superior heat recovery and ability to be scaled up to large sizes. RTOs are designed to preheat the inlet emission stream with heat recovered from the incineration exhaust gases. Gases entering an RTO are heated by passing through preheated beds packed with a ceramic media. A gas burner brings the preheated emissions up to an incineration temperature between 788° and 871°C (1450° and 1600°F) in a combustion chamber with sufficient gas residence time to complete the combustion. Combustion gases then pass through a cooled ceramic bed where heat is extracted. By reversing the flow through the beds, the heat transferred from the combustion exhaust air preheats the gases to be treated, thereby reducing auxiliary fuel requirements. For process streams where there is significant loading of filterable particulate, the filterable particulate must be removed prior to the RTO.

Wet Scrubbers

Wet scrubbers utilize various means to collect particles, including inertia, condensation and absorption, in order to transfer particles from the gas stream to a liquid stream. Wet scrubbers may include consist of a fiber bed or packed bed media with liquid circulation or a venturi, where the particles impinge on a wetted surface. Exhaust gases pass through the wetted media where soluble particulate matter is stripped out. Wet scrubbers result in a significant wastewater stream. For applications in which the exhaust stream contains a large amount of condensable or non-soluble particles, packed bed scrubbers are impractical because the packing becomes fouled.

Venturi scrubbers are often used in the forest products industry for particulate matter control. In a venturi scrubber, the particles are collected by a liquid introduced at or before the venturi throat. Venturi scrubbers are less effective in collecting small particles than either electrostatic precipitators or fabric filters and may be used as stand-alone devices or as a pre-control to reduce loading on the final particulate matter control device.

Exhaust Gas Recycle

EGR typically recycles exhaust gases from a flue stack into an oversized combustion unit that is designed to accommodate up to 100 percent recirculation of exhaust gases. The recirculated dryer exhaust is mixed with combustion air and exposed directly to the burner flame where organic particulate emissions are incinerated. Thermogen main process stream includes sources other than dryer and requires an integrated air pollution control system to control emissions from not only the dryer, but other process sources as well. Exhaust gas recycle would only control emissions from the burner and dryer. Exhaust gas recycle would not provide emission reductions necessary for the facility to achieve BACT and LAER.

Cyclones

Cyclones typically are an integral part of biomass dryers and are also a very common particulate control device used in many applications, especially those where relatively large particles need to be collected. Cyclones are very simple devices that utilize centripetal force to separate particles from gas streams. They have a relatively low capital cost, very low operating costs, no moving parts, and facilitate recovery and reuse of solid/particulate matter contained in the exhaust streams. Cyclones generally have lower collection efficiency for very small particles compared to other methods. However, they are often used to remove the bulk of the particulate matter prior to further treatment by another method. Cyclones will be used in several locations to separate product from an air stream. The only location where Thermogen is using cyclones as the final air pollution control system is for the pellet coolers, which are discussed below in ***Section 4.2***.

Electrostatic Precipitators

Electrostatic precipitators (ESPs) use high-voltage fields to apply electrical charge to particles. The charged particles then move toward an oppositely charged collection surface where they accumulate. The accumulated dust can then be dislodged from the collectors and collected in hoppers below. The collected dust is then removed for disposal or recycling. Electrostatic precipitators, along with fabric filters are considered the most effective particulate matter control systems for smaller particles.

Wet ESPs (WESP) are typically used for exhaust streams that contain high moisture levels, particles that may be sticky (such as higher molecular weight organics that have condensed in an exhaust stream), particles that have a high resistivity, or flammable materials. In a WESP, the exhaust stream is pre-quenched to cool and saturate the gases before they enter the ESP. The high humidity in the exhaust stream reduces the resistivity of the particles, thereby improving performance over dry ESPs for high resistivity particles. The WESP collects particles and droplets that have been electrostatically charged. The collection surface is washed down with water to remove the collected particles. The primary disadvantage of the WESP is that it generates significant wastewater effluent. The advantage is that it offers improved small particle collection efficiency in many situations.

Review of Permits Issued to Other Facilities

Table 5 includes a summary of control technology and emissions limits for biomass-fired rotary dryers in the northeast compiled for the previous application for the Thermogen facility as well as selected determinations for biomass-fired dryers used in the manufacture of oriented strand board (OSB) from USEPA's RACT/BACT/LAER clearinghouse. The permits issued in the northeast are primarily for dryers used in the manufacture of wood pellets. While a variety of particulate control methods are used in the manufacture of wood pellets, dryers used in the production of OSB tend to be larger facilities and primarily use wet electrostatic precipitators with regenerative thermal oxidizers as an integrated system for particulate matter, VOC, and CO control.

Proposed BACT for Particulate Matter

Thermogen is proposing to use a WESP with 96 percent particulate matter removal efficiency followed by an RTO to remove condensable and filterable particulate matter. The combination of a wet electrostatic precipitator with an RTO is the most effective integrated system for particulate matter, VOC, and CO control and is representative of the best controlled similar sources for these pollutants. The proposed BACT level for particulate matter emissions from the main process exhaust is a total (filterable plus condensable) PM_{10} emission rate of 3.85 pounds per hour.

4.1.2 NO_X

NOx is generated in one of three mechanisms; fuel NOx, thermal NOx, and prompt NOx. Fuel NOx is produced by oxidation of nitrogen in the fuel source. Combustion of fuels with high nitrogen content produces greater amounts of NOx than those with low nitrogen content such as distillate oil and natural gas. Thermal NOx is formed by the fixation of nitrogen (N_2) and oxygen (O_2) at temperatures greater than 3600°F. Prompt NO_X is formed from the rapid reaction fixed N_2 with hydrocarbon radicals. It less significant than thermal and fuel NO_X and is much more difficult to control.

There are several potential control technologies for NO_X emissions from biomass burners, including add-on controls such as selective catalytic reduction (SCR) and selective non-catalytic reduction (SNCR); combustion control techniques such as staged combustion, low excess air firing, and flue gas recirculation; and combustion of clean fuels.

Add-on Controls

Add-on pollution control technology for the reduction of NO_X includes SNCR and selective catalytic reduction (SCR) which are primarily used on large industrial and utility boilers.

Where feasible, SCR is generally considered the NO_X control method achieving the highest emissions reductions. SCR uses ammonia or urea as a reducing agent to react with NO_X and form molecular nitrogen. A catalyst is required to allow the reaction to proceed at temperatures of 600 to 750° F, although, recent advances have reduced the required temperature. The surface of the SCR catalyst can be blinded by particulate matter or condensable materials adhering to the catalytic surface, and the catalyst must be located downstream of the particulate matter controls. This placement of the SCR catalyst has been successfully used on some biomass boilers, although reheating of the exhaust ahead of the SCR is necessary. However, no examples of its use with biomass dryers or similar sources were found. As indicated above, a wet electrostatic precipitator is the particulate matter control best suited to biomass dryers and similar sources because of the high level of moisture and condensable organic material. However, the exhaust stream is cooled to less than 200° F during the pre-quenching of the exhaust stream and the exhaust gas temperature would have to be raised by 250 – 300° F for SCR to be effective. In addition, the particulate matter controls serve multiple parts of the process and the NO_X is diluted, rendering any add-on controls less effective. Therefore, SCR is not feasible for this application.

SNCR also uses ammonia or urea as a reducing agent, but the reducing agent is injected where the exhaust gases are at a temperature of 1600 to 2100° F. There is no catalyst. SNCR achieves NO_X reductions of 30 – 50 percent and is not as effective as SCR. Because it has no catalyst, mixing and residence time are important parameters. SNCR has been used successfully in biomass boilers and in cement kilns where the appropriate temperature, mixing, and residence time can occur. However, temperatures in direct-fired biomass dryers are too low for SNCR to be effective.

A search of the RBLC clearinghouse and other sources did not identify any facilities where SCR or SNCR is used with direct-fired biomass dryers or similar sources.

Combustion Control Practices

Modern burner designs employ a variety of features to reduce peak flame temperatures, reduce excess air at certain stages of combustion, and promote mixing in order to reduce the formation of NO_X. Flue gas recirculation (FGR) may be employed to provide additional NO_X reduction.

In an FGR system, a portion of the flue gas is re-circulated back into the main combustion chamber, where thermal NO_X formation is reduced by decreasing the peak flame temperatures.

Combustion of Clean Fuels

Combusting fuels with less fuel bound nitrogen results in lower emissions from fuel NO_X, Biomass typically has a nitrogen content of less than 0.1 percent, although bark may contain up to 0.3 percent nitrogen. Thus, wood has a lower nitrogen content that most fuel oils, but it has a higher nitrogen content than natural gas or propane. It should be noted that the use of biomass as fuel for the dryer is essential to the product's purpose as a biomass alternative to coal.

Proposed BACT

Thermogen is proposing the use of advanced burner design in conjunction with FGR to achieve a NO_X emissions level of 0.191 lb/MMBTU in the dry wood dust burner. The top technologies, SCR and SNCR are technically infeasible and have not been used in any similar application. The use of natural gas, a fuel with a lower nitrogen content, as the primary fuel for the biomass dryer is not considered technically feasible due to the high demand rate, the lack of a gas delivery pipeline in the project area, and the need for numerous truck deliveries per day to supply the unit with CNG fuel, which would result in significant collateral emissions and jeopardize plant reliability in adverse weather conditions. Therefore, use of a low-NO_X burner with flue gas recirculation is the top technically feasible alternative consistent with the project's objectives. This compares favorably with dryers fired only with biomass included in ***Table 5***.

4.1.3 CO

Carbon monoxide (CO) is a product of incomplete combustion. CO emissions can be controlled through combustion control techniques or by add-on technology.

Oxidation Catalyst

Catalytic oxidation is a post combustion control technology that has been used with gas turbines and internal combustion engines. Catalysts operate by decreasing the temperature at which oxidation of CO will occur. The catalyst lowers the activation energy necessary for CO to react with available oxygen in the exhaust to produce CO_2.

Typically, oxidation catalysts are used on “clean” exhaust streams and as a consequence are not used in extensively in the forest products industry. As with an SCR catalyst, the catalytic surface can be blinded by particulate matter adhering to the catalytic surface and the catalyst is therefore sensitive to high levels of particulate matter, particularly the sticky particulate matter found in biomass drying exhaust. Therefore, the catalyst must be located downstream of the particulate matter controls. In biomass boilers, the particulate matter can be controlled by a conventional ESP. In this case, a WESP must be used because of the high level of condensable organics and the sticky nature of the particulate matter. However, locating the oxidation catalyst downstream of a WESP would require reheating the gas stream hundreds of degrees because the exhaust stream is cooled significantly during the pre-quenching of the exhaust stream. The requirement to reheat the gas stream to a temperature high enough to achieve a high level of CO removal makes catalytic oxidation technically infeasible.

Thermal Oxidation

Thermal oxidation reduces CO emissions in the flue gas using high temperature post combustion. Thermal oxidation is typically not used solely for CO emissions control. However, where used for VOC emissions control, it also reduces CO emissions.

Good Combustion Practices

Good combustion practices incorporate a variety of factors including proper combustion system operation, proper system maintenance, and operator training. Proper combustion techniques control CO emissions by maintaining optimum combustion conditions within the system including residence time, temperature, and mixing. This optimizes system combustion efficiency, thereby minimizing CO emissions. Good combustion practices is the most common method for controlling CO emissions from biomass fired burners.

Proposed BACT for CO

Thermogen proposes to use good combustion practices and thermal oxidation with 70 percent destruction efficiency as BACT for CO. For comparison purposes, this equivalent to a CO emission rate of 0.113 lb/MMBTU from the dryer. Good combustion practices with an RTO is the top level of CO control for biomass dryers and similar sources in the forest products industry.

4.1.4 VOC

LAER is required for VOC emissions from the proposed Thermogen facility.

VOC emissions are generated in the Thermogen process primarily through the evaporation of the naturally occurring VOCs in the wood from the dryer, the pellet mill, and the thermal treatment system. Organic emissions include heavier organics that are emitted in particulate form as condensable particulate matter, as well as lighter organics. As discussed above, the condensable fraction has a dual nature, and may be counted as VOC or particulate matter, or both, depending on the measurement method and the flue gas conditions.

Typical methods of VOC control include thermal oxidation, catalytic oxidation, condensation, absorption, and adsorption.

Condensation

In condensation, the temperature of the exhaust stream is reduced to below saturation temperature of the organic materials in the waste stream. Its effectiveness is dependent on the vapor pressure of the organic constituents, their concentration, and the extent to which the exhaust consists of a non-condensable fraction, such as air. Condensation may occur on a heat exchange surface where a refrigerant is used to provide a low-temperature surface for condensation to occur on or the temperature of the exhaust stream may be reduced by direct contact with a water spray. Because the condensation occurs on a heat exchange surface in a refrigerated condenser, this type of condenser is not technically feasible for a biomass dryer, where sticky condensable material will be present, because the heat exchange surfaces will become fouled. In addition, a direct contact condenser will not remove a large proportion of the lighter VOC because it will not reduce the exhaust temperature low enough to condense a large portion of the lighter VOC in the presence of large amounts of air. Thus, a contact condenser will not achieve a high level of VOC control for the Thermogen process.

Adsorption

In adsorption, the VOC are adsorbed onto the surface of a solid material. To be effective as an adsorbent, the solid material must have a large surface area available to hold the VOC molecules. Common adsorbents include activated carbon and zeolites. The effectiveness of adsorption varies for different organic compounds and is also dependent on the concentration in the exhaust stream and the moisture level. High moisture can hinder the adsorption of VOC. For adsorption to be economically viable, the adsorbed material must be desorbed so that the adsorbent can be reused. The desorbed material may be recovered for reuse, where it has sufficient economic value. Otherwise, where reuse is impractical, the desorbed material may be destroyed by thermal oxidation. In this case, adsorption would be used to concentrate the VOC in the waste stream to reduce the overall cost of thermal oxidation. Where adsorption is used to concentrate a waste stream, the overall removal efficiency is limited by both the efficiency of the adsorption cycle and the destruction efficiency of the oxidizer. Adsorption is generally unsuitable for exhaust streams with semi-volatile organics because these high boiling materials cannot be readily desorbed. It is also unsuitable for exhaust streams with high moisture levels, because moisture hinders the adsorption of VOC. As a consequence, adsorption is not technically feasible for the Thermogen process stream, which contains condensable organics and high moisture levels.

Absorption

In absorption, the VOC is transferred from the gas phase to a liquid stream in a scrubber. The liquid stream may be reactive with the VOC or the VOC may be transferred unreacted to the liquid stream. In any case, the reactant must be replenished or the VOC removed by discharging a portion of the recirculating liquid and replacing it with new liquid. The use of absorption for VOC removal is limited because few VOC are reactive enough or have the properties suitable for adsorption (low vapor pressure and high solubility in water). Due the large number of different organic constituents in the process exhaust, absorption would not be expected to provide a high level of control for the Thermogen process. However, some incidental absorption of highly soluble VOC such as formaldehyde and methanol is expected to occur in the pre-quench step prior to the WESP.

Thermal Oxidation

Thermal oxidizers control VOC by combusting them at high temperatures. Thermal oxidizers can destroy both volatile and semi-volatile (i.e., condensable) organic compounds. RTOs are designed to preheat the inlet emission stream with heat recovered from the incineration exhaust gases. Gases entering an RTO are heated by passing through preheated beds packed with a ceramic media. A gas burner brings the preheated emissions up to an incineration temperature between 1450 and 1600° F in a combustion chamber with sufficient gas residence time to complete the combustion. Combustion gases then pass through a cooled ceramic bed where heat is extracted. By reversing the flow through the beds, the heat transferred from the combustion exhaust air preheats the gases to be treated, thereby reducing auxiliary fuel requirements.

Wet Electrostatic Precipitators

The dual nature of condensable organics means that some degree of VOC control can be achieved by particulate matter removal equipment. In a WESP, exhaust gases enter a pre-quench to cool and saturate the gases before they enter the WESP. The pre-quench is essentially a direct contact condenser and low-energy scrubber that condenses and removes some condensable organics. The remaining particles are charged and collected on charged plates. The WESP collects only particles and droplets that can be electrostatically charged; vaporous components of the gas stream that do not condense are not collected by the device. However, the pre-quench step may absorb some soluble VOC such as methanol and formaldehyde.

Proposed LAER

Thermogen proposes to employ the use of a WESP and RTO to control VOC emissions from the wood-fired dryer, thermal treatment system, and pellet mills as part of an integrated system to control VOC, particulate matter, and CO. The expected control efficiency of the RTO is 97 percent. The WESP will also control VOC to the extent that condensable organic matter is measured as VOC. There is small amount of VOC emitted from the pellet coolers that Thermogen is not proposing to direct to the WESP/RTO because of the low VOC concentration and high flow rate. This VOC constitutes less than 0.5 percent of the total VOC emitted from the process. However, overall sitewide VOC control efficiency with the proposed LAER is nearly 97 percent, even without controlling the pellet cooler exhaust. The pellet mills and coolers are discussed in additional detail in ***Section 4.2*** below.

4.1.5 SO_x

Combustion of any fuel containing sulfur results in the oxidation of the sulfur compounds to sulfur oxides, primarily SO_2. Biomass has a very low sulfur level, and add-on controls for SO_2 are not warranted. Thermogen is proposing use of wood, an inherently low-sulfur fuel, as BACT.

4.1.6 Hazardous Air Pollutants

As a major source of HAP, the Thermogen facility is required to implement MACT. MACT is defined in Chapter 100 as:

> the emission limitation pursuant to Section 112 of the CAA which is not less stringent than the emission limitation achieved in practice by the best controlled similar source, and which reflects the maximum degree of reduction in emissions of hazardous air pollutants (including a prohibition on such emissions, where achievable) that the USEPA, or the Department, taking into consideration the cost of achieving such emission reduction, and any non-air quality health and environmental impacts and energy requirements, determines is achievable by sources in the category or subcategory to which the standard applies.

The Thermogen facility includes a unique process and will produce a unique product. One major difference between the Thermogen process and conventional wood pellet and OSB production is that it is necessary to remove low molecular weight volatiles, which includes some compounds also regulated as HAPs that add weight but do not commensurately contribute to heating value of the pellets. This results in additional VOC emissions, a large portion of which is HAP. The significant sources of HAP emissions in the main process stream are the dryer, thermal treatment system, and the pellet mill aspiration system. HAP emissions from the pellet coolers are not significant.

Despite the unique nature of the product, the Thermogen process exhaust shares many characteristics with OSB dryers as well as rotary dryers used in the production of conventional wood pellets. As described above, the exhaust stream presents challenging conditions for air pollution control, including both condensable and filterable particulate matter and high moisture levels. HAPs are present in filterable particulate matter, the condensable organic phase, and in the gas phase, so an integrated approach to controlling HAP is necessary.

The top control option for OSB dryers and other similar exhaust streams in the forest products industry is a combination of a WESP and RTO to control filterable, condensable, and gas phase pollutants. This combination removes condensable and gas phase HAP in the WESP pre-quench, condensable and filterable HAP in the WESP itself, and condensable and gas phase HAP in the RTO. OSB dryers with a WESP and RTO as an integrated pollution control system represent the best controlled sources similar to the proposed Thermogen process.

4.2 PELLET MILLS AND COOLERS

The pellet production process has two separate exhaust streams: The pellet mill aspiration system used to capture fumes generated by the high heat of the pellet extrusion process and the pellet coolers used to reduce the temperature of the pellets prior to storage or shipping. The pellet mill aspiration system will contain the majority of VOC emitted during the pelletizing process, as well as some particulate matter. In order to reduce the total flow through the main process emissions abatement system, which is an integrated system of VOC, CO and particulate matter control consisting of a WESP and RTO, the pellet mill aspiration flow will pass through a fabric filter and will then be used as combustion air for the dry wood dust burner. Therefore, this exhaust stream will become a component of the main process exhaust stream and will be treated by the WESP/RTO control system.

VOC Emissions

As stated above, exhaust from the pellet mill will be used as combustion air, where VOC emission reduction will occur in the dry wood dust burner as well as the main process control system consisting of a WESP and RTO. The ultimate control devices will be the WESP and RTO as part of an integrated control system for particulate matter, VOC, and CO. Thermogen has proposed this system as LAER for VOC for the primary process sources, as BACT for particulate matter and as MACT for HAP. It should be noted that the pellet mills at most facilities producing wood pellets have no VOC control on the pelletizing process.

The two pellet coolers have a total air flow of about 60,000 standard cubic feet per minute. Based on the estimated VOC emissions, the concentration of VOC in the pellet cooler stream is about 7 parts per million (ppm) as propane. This VOC concentration is in the range of guaranteed VOC outlet concentrations provided by manufacturers of thermal oxidation equipment (5 - 10 ppm as propane), so routing this exhaust stream through a VOC control system would not be expected to substantially reduce VOC emissions. It would, however, increase the fuel needed for thermal oxidation substantially, as the additional exhaust stream would not contribute to the heat needed to treat the stream. Routing this exhaust stream through the RTO would not substantially reduce VOC emissions and would increase the emissions of combustion-related pollutants. Therefore, Thermogen is not proposing to control the VOC emissions from the pellet coolers.

Particulate Matter

The pellet mill aspiration process emissions will be routed through a baghouse, through the dry wood dust burner, and through the WESP and RTO, thus being controlled by BACT level controls twice before being discharged.

Thermogen is proposing high efficiency cyclones with a 95 percent removal efficiency as the final particulate matter controls on the pellet coolers rather than a fabric filter, which represents the most effective control technology. As noted above, the cyclones will be the final controls only for a portion of the particulate matter emissions from the pelletizing process. The pellet mill aspiration system will receive top level control twice before discharge. For the remaining particulate matter from the pelletizing process, namely the pellet coolers, the exhaust flow rate (60,000 actual cubic feet per minute [acfm]) is very high relative to the emission rate (5.5 pounds per hour [lb/hr]). Using the middle of the cost ranges provided in the USEPA-CICA Air Pollution Control Technology Fact Sheet for Pulse-Jet type fabric filters, the estimate capital cost for a fabric filter for the pellet coolers would be $960,000 ($16/acfm), and the estimated annualized cost would be $1,350,000 per year ($22.5/acfm). With an emission rate of 5.5 lb/hr, the estimated per ton cost would be $56,000. Thus a fabric filter would not be cost effective.

4.3 FUEL HAMMERMILL ASPIRATION, DRY CHIPS PNEUMATIC TRANSFER SYSTEM, AND PELLET SYSTEM FINES TRANSFER

Particulate matter control technologies are described in detail in ***Section 4.1.1*** above. Fabric filters are recognized as the most effective particulate matter control systems (along with electrostatic precipitators). Fabric filters are technically feasible for the fuel hammermill aspiration system, dry chips pneumatic transfer system, and pellet system fines transfer system, and Thermogen proposes to use fabric filters for particulate matter control from these sources.

4.4 OTHER EQUIPMENT

In the wood yard, raw wood chips are expected to be delivered at 45 percent moisture and fugitive emissions from the storage and handling of wood chips are expected to be insignificant. Wood chips will be transferred to the manufacturing process via covered conveyors to minimize emissions. On the back end of the process, the finished product is the in the form of a pellet. Fines are recovered separately and returned to the process, so the finished product does not contain a significant amount of fines. The finished product will be transferred to the rail loading station via a covered conveyor, and the rail loading station will be enclosed to minimize emissions. Thermogen is proposing covered conveyors and a covered loading station as BACT for the transfer of raw material and finished product.

4.5 BACT/LAER FOR BOILER

Table 7 presents the BACT guidance or rules from the New Jersey State of the Art (SOTA) Manual, the Massachusetts BACT Guidance, and South Coast Air Quality Management District in California. While other sources were consulted, the rules and BACT guidance presented in ***Table 7*** are representative of BACT requirements in California, which is generally regarded as having the most stringent emission standards in the country, and two northeastern states also considered to have stringent BACT requirements. In general, the approach taken in these jurisdictions is to require the use of low-NO_X or ultra-low-NO_X burners with flue gas recirculation or their equivalent, and to limit oil firing to distillate oil, which has a lower nitrogen, sulfur and ash contents than heavier grades of oil. SCAQMD limits oil firing to standby usage. The differences between the California requirements and the New Jersey and Massachusetts requirements reflect the generally more severe air quality problems in California, the historic greater use of fuel oil in the northeastern United States, and natural gas supply constraints in New England, where interruptible gas contracts are common for industrial and institutional facilities due to pipeline capacity constraints. Thermogen is proposing to use natural gas as the sole fuel in the boiler.

Oxides of Nitrogen (NO_X)

NO_X emissions reduction in natural gas-fired boilers can be accomplished by using SCR or by reducing NO_X formation in the combustion process. SCR requires the use of urea, anhydrous, ammonia, or aqueous ammonia as a reducing agent. SCR systems consist of a storage and delivery system for the reducing agent, controls to match the amount of added reducing agent to the NO_X emissions level, and a catalyst to promote the reduction of NO_X to molecular nitrogen. SCR is rarely, if ever, used on boilers in this size range because of the complexity of SCR systems and the cost which may equal the cost of the boiler itself.

NO_X formation from fuel bound nitrogen can generally not be prevented by combustion controls. Reduction of NO_X emissions from fuel-bound nitrogen is dependent on the use of low nitrogen fuels such as natural gas. Low-NO_X burners typically are designed to reduce the formation of thermal NO_X.

Prompt NO_X is formed early in the combustion process from nitrogen molecules in the combustion air and hydrogen radicals from the fuel. Formation of prompt NO_X is difficult to control, although some ultra-low NO_X natural gas burners can limit prompt NO_X formation.

Thermal NO_X is controlled by reducing peak flame temperatures and by staging combustion so that excess air is not available at critical stages of combustion. Flue gas recirculation may also be used, wherein an inert gas (i.e., the flue gas) is added to reduce peak flame temperature. Low NO_X burners with flue gas recirculation can achieve NO_X levels of 30 parts per million, volumetric dry **(**ppmvd) @ 3 percent O_2. Some burner manufacturers claim to be able to reach this emissions level without FGR. This emissions level is consistent with the Massachusetts Environmental Results Program and top case BACT guidance for boilers less than 40 MMBTU/hr (the proposed boiler has a heat input rating of 42.6 MMBTU/hr), the New Jersey SOTA, and some recent permit decisions in Rhode Island.

Some vendors offer ultra-low NO_X burners that can achieve 9 ppm NO_X and such burners are required in some areas of California and the Gulf Coast. At this emissions level, prompt NO_X may also be reduced in addition to thermal NO_X. These burners require complex controls, cost substantially more than low-NO_X burners, are more prone to condensation of moisture in the flue gas in cold weather conditions due to the high rate of flue gas recirculation, and require longer periods to adjust to load variations.

The proposed boiler will supply steam for the thermal treatment system that will consist of six separate batch thermal treatment reactors sequenced so that the process can be operated as a continuous process upstream and downstream of the thermal treatment system. However, because of the batch nature of the thermal treatment process wherein pairs of thermal treatment reactor are pressurized with steam and then flash depressurized, the steam load swings are extreme over short periods of time. These rapid load swings may pose a significant problem with the ultra-low NOx burners that can achieve 9 ppm NO_X @3 percent O_2. For this reason, the ultra-low burners needed to reach this emissions level are considered technically infeasible. Therefore, Thermogen is proposing 30 ppmvd or 0.036 lb/MMBTU as BACT for NO_X emissions from the boiler.

Carbon Monoxide (CO)

Historically there has been a significant tradeoff between NO_X emissions and CO emissions in boilers because the lower flame temperatures and fuel rich combustion zones that favor lower NO_X formation result in higher carbon monoxide emissions. Generally, NO_X emissions from boilers are of much greater concern than carbon monoxide emissions, and higher carbon monoxide emissions have been allowed in the past as a tradeoff for lower NO_X emissions. However, low-NO_X burners with staged firing and FGR can now achieve carbon monoxide levels of 50 ppmvd @ 3 percent O_2 when firing natural gas. Thermogen is proposing as BACT a CO emission rate of 0.037 lb/MMBTU, which is equivalent to 50 ppmvd @ 3 percent O_2. This level is similar to the Massachusetts top case for boilers between 40 and 100 MMBTU/hr heat input and is equal to or better than the BACT levels from the New Jersey SOTA manual, South Coast Air Quality Management District, and the Massachusetts top case for boilers less than 40 MMBTU/hr heat input.

Sulfur Dioxide (SO_2)

SO_2 emissions from industrial boilers are controlled by controlling the sulfur in the fuel. Natural gas has negligible sulfur and is inherently low in sulfur dioxide emissions.

The proposed BACT for sulfur dioxide is the use of natural gas as fuel.

Volatile Organic Compounds (VOC)

VOC emissions from boilers in this size range are controlled by managing combustion conditions. Massachusetts BACT guidance and ERP regulations have a VOC top case of 0.03 lb/MMBTU for natural gas firing in boilers less than 40 MMBTU/hr heat input and 0.035 lb/MMBTU for boilers from 40 to 100 MMBTU/hr. The New Jersey SOTA guideline for VOC is 0.005 lb/MMBTU for natural gas firing. VOC limits in recent permits issued in Rhode Island for boilers greater than 10 lb/MMBTU have ranged from 0.004 to 0.006 lb/MMBTU. Thermogen is proposing 0.005 lb/MMBTU as BACT for VOC emissions from the steam boiler.

Particulate Matter

Combustion of natural gas generates very low particulate matter in the combustion process, provided that air and fuel are mixed properly and combustion equipment is properly maintained. Particulate matter emissions from boilers in the size range of the proposed boiler are typically controlled through the selection of fuel. Natural gas is an inherently clean burning fuel. Thermogen is proposing the use of natural gas as the fuel as BACT for particulate matter.

4.6 GREENHOUSE GASES (GHG)

Combustion of biomass, natural gas, and diesel fuel releases GHG, which consist overwhelmingly of CO_2, with small amounts of nitrous oxide (N_2O) and methane.

The dry wood dust burner is the primary source of GHG, followed by the steam boiler, the oxidizer, and the emergency generator.

Three GHG control options have been identified: Carbon capture and storage, the use of alternative fuels, and energy efficiency.

Carbon Capture and Storage (CCS)

CCS is a technology in development that has potential to reduce CO_2 emissions in a high purity CO_2 stream. Where feasible, it should be considered the most effective CO_2 emissions reduction measure. Development of this technology is focused primarily on CO_2 emissions from coal firing in large utility boilers. At the present time, CCS is not technically feasible for biomass-fired dryers or natural gas-fired package boilers.

Alternative Fuels

Some fuels generate considerably less carbon dioxide than other fuels in the combustion process. Biomass has a higher CO_2 emission rate on a heat input basis than fuel oil, propane, and natural gas. A central question to determining BACT for GHG is whether alternative fuels as a control option would fundamentally redefine the proposed facility. In doing so, the permitting authority "must be mindful that BACT, in most cases, should not be applied to regulate the applicant's objective or purpose for the proposed facility, and therefore, the permit issuer must discern which design elements are inherent to that purpose, articulated for reasons independent of air quality permitting, and which design elements may be changed to achieve pollutant emission reductions without disrupting the applicant's basic business purpose for the proposed facility." (In re Prairie State Generating Co., 13 E.A.D. 1, 23 (USEPA 2006)). The crucial question to consider in determining whether a control option, such as alternate or cleaner fuels, would redefine the project is "when does the imposition of a control technology require enough of a redesign of the proposed facility that it strays over the dividing line to become an impermissible redefinition of the source?" (In re Desert Rock Energy Company, PSD Appeal No. 08-03 et al. at 63-64 (EAB Sept. 24, 2009)).

The proposed facility will manufacture a biomass replacement for coal as a renewable resource. The extent to which fossil fuels are used in its production lower the inherent value of the pellets as a coal replacement by increasing the life-cycle "embedded carbon" generated in the production of the pellets. Fossil fuel, namely natural gas, is used only where it is essential to the proper operation of the process. The areas where natural gas will be used are in the RTO, where natural gas or propane must be used, and in the steam boiler, where a solid fuel would not allow the boiler to respond to the rapid load swings that will occur. Natural gas has the lowest CO_2 emission rate on a heat input basis of the commercially available fuels. However, the use of biomass in the primary combustion source, the dry wood dust burner, is essential to the inherent character of the product being manufactured as every country seeking to reduce GHG emissions, with the sole exception of the US, considers combustion of biomass to be GHG neutral. The use of fossil fuels in the dry wood dust burner as means of reducing CO_2 emissions would be inimical to purpose of the facility.

<u>Energy Efficiency</u>

Energy efficiency is technically feasible, within limits. The energy efficiency measures incorporated into the facility include the following:

1. <u>The use of an RTO as a VOC control device</u> - RTO's are typically designed to recover approximately 95 percent of the heat used to oxidize the VOC and HAP, compared to 40 to 70 percent for a recuperative oxidizer. Where there is a large VOC loading, an RTO can be self-sustaining, meaning that combustion of the VOC itself provides enough heat to maintain the required operating temperature. For the Thermogen facility the expected natural gas requirement is 4 MMBTU/hr for a flow rate of 183,200 ft^3/min.
2. <u>Recirculation of a portion of the dryer exhaust</u> - Approximately half of the exhaust from the rotary dryer will be recirculated back through the dryer to reduce overall fuel usage.
3. <u>Using the exhaust from the pellet mill aspiration system as combustion air or makeup air for the dry wood dust burner</u> -The pellet mill aspiration exhaust contains sufficient VOC to warrant to control, but will not contain sufficient VOC to replace the fuel required to heat it to the required temperature. By re-using this exhaust stream, the overall flow rate through the oxidizer is reduced, thereby reducing the fuel requirement for the oxidizer.

Therefore, as BACT for GHGs from the production process, Thermogen proposes to use, natural gas, the lowest-emitting commercially available fuel, for the steam boiler and RTO and to use the energy efficiency measures described above in the production process.

For emergency engines, energy efficiency of the engine design is the best way to minimize the emissions of GHGs from these sources. Since the USEPA's engine emission standards for other criteria pollutants are based on the emission rate of the pollutant per unit of energy output, engine manufactures have employed a combination of reducing the mass emission rate of the pollutant(s) and increasing the overall efficiency of the engines. Thus the use of a Tier certified engine will help ensure the use of highest energy efficient diesel engine(s) available. Thermogen is proposing the use of a tier-certified engine as BACT for GHGs from the emergency generator.

5.0 COMPLIANCE WITH APPLICABLE REQUIREMENTS

Provided in this section is a summary of State and Federal air regulations that apply to the proposed Thermogen facility and proposed drying, thermal treatment, pellet mill, and supporting equipment sources. Thermogen has designed a facility and selected specific equipment that will achieve compliance with the applicable State and Federal air regulations.

5.1 MAINE AIR REGULATIONS

The proposed Project has been reviewed for potential applicability to the MEDEP Bureau of Air Quality regulations, and the following regulations are applicable to the Project and therefore bear further discussion:

5.1.1 Chapter 101 Visible Emission Regulation

This rule establishes opacity limitations for emissions from several categories of air contaminant sources.

The dust burner/rotary dryer are subject to Section (2)(B)(1)(f), which limits visible emissions from any fuel burning equipment not specifically listed in the Section to an opacity of 30 percent on a six (6) minute block average basis, except for no more than two (2) six- (6-) minute block averages in a 3-hour period.

All other process emission points are subject to Section (2)(B)(3)(d), which limits visible emissions from general process sources to an opacity of 20 percent on a six- (6-) minute block average basis, except for no more than one (1) six- (6-) minute block average in a 1-hour period.
The natural gas boiler is subject to Section (2)(B)(1)(c), which limits visible emission from boilers firing natural gas to an opacity of 20 percent on a six- (6-) minute block average basis, except for no more than one (1) six- (6-) minute block average in a 3-hour period.

5.1.2 Chapter 103 Fuel Burning Equipment Particulate Emission Standard

This rule applies to all fuel burning equipment that has a rated heat input capacity of 3 MMBTU per hour or greater. The dust burner/rotary dryer and natural gas boiler are considered a new source since an application for licensure is being submitted after December 22, 1982.

Thermogen's 40 MMBtu/hr dust burner will comply with Section (2)(B)(4)(a), which states "*Any biomass boiler, so called, designed to burn wood, bark, coal, sludge, petroleum product or other such combustible fuel, alone or in combination, with a heat input capacity of less than 50 million BTU/Hr. shall not exceed 0.30 lbs. particulate per million BTU*". The dust burner is not a boiler, and is therefore not subject to Section (2)(B)(4)(a); however the dust burner will meet the emission limit of this rule.

The natural gas boiler will comply with Section (2)(B)(1)(a), which limits gas boilers with a heat capacity of less than 50 MMBtu/hr to a PM emission rate of 0.12 lbs/MMBtu.

5.1.3 Chapter 115 Major and Minor Source Air Emission License Regulations

This rule specifies who must obtain an air emission license, describes the information an applicant must submit for a license, and describes the standards and criteria that must be complied with during and following the air licensing process. For minor sources, 06-096 CMR 115 serves as an operating licensing program and a pre-construction license review program. For major sources such as Thermogen, 06-096 CMR 115 incorporates New Source Review requirements pursuant to Title I, Part C (Prevention of Significant Deterioration) and Part D (Nonattainment New Source Review) of the Clean Air Act. 06-096 CMR 140 establishes the operating licensing requirements for subsequent incorporation into a Title V/Part 70 air license for Thermogen under 06-096 CMR 140. The proposed Thermogen sources will exceed major source thresholds for VOC and CO_2. Therefore, it subject to the major source listing requirements.

5.1.4 Chapter 137 Emission Statements

This rule establishes requirements for the reporting of pollutant emissions from stationary sources of air pollution. Thermogen will be subject to the reporting requirements of this rule. Thermogen will be required to submit annual criteria pollutant and GHG emission statements as well as triennial hazardous air pollutant emission statements.

5.1.5 Chapter 140 Part 70 Air Emission License

06-096 CMR 140 establishes the operating licensing requirements for subsequent incorporation into a Title V/Part 70 air license for Thermogen under 06-096 CMR 140. The proposed Thermogen sources will exceed major source thresholds for VOC and CO_2. Therefore, it subject to the major source listing requirements.

5.2 FEDERAL AIR REGULATIONS

5.2.1 New Source Performance Standards (NSPS)

In the late 1970s, amendments to the Clean Air Act authorized USEPA to require standards of minimum emission performance for stationary sources. This program is codified in 40 CFR Part 60 and is referred to as the NSPS program. There are numerous categories of emission sources for which a specific NSPS subpart applies. The paragraphs below present a description of the NSPS Subparts that are potentially relevant to the Thermogen facility and discuss the applicability of each.

5.2.1.1 Subpart Dc

Subpart Dc, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units applies to new, modified and reconstructed steam generating units with a maximum design heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr. Subpart Dc defines steam generating unit as "*a device that combusts any fuel and produces steam or heats water or heats any heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.*"

The dust burner is not a steam-generating unit and is not subject to Subpart Dc. The proposed gas-fired boiler is a steam-generating unit subject to Subpart Dc, but there are no emission limits in Subpart Dc for gas-fired boilers.

There are no specific emission or operational limits that apply to the steam boiler, however the combustor will be subject to the recordkeeping and reporting requirements of Subpart Dc including initial notifications pursuant to § 60.48c(a), and monthly recordkeeping of combustion pursuant to § 60.48c(g)(2).

5.2.1.2 *Subpart IIII*

Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines applies to owners and operators of compression ignition (CI) internal combustion engines (ICE). The proposed emergency generator is subject to the requirements of §60.4205, including meeting the Tier III emission standards of §60.4202(4)(f).

5.2.2 National Emission Standards for Hazardous Air Pollutants (NESHAP)

A list of 189 compounds was provided by the Congress to be controlled by USEPA as HAPs. This program is codified in 40 CFR Part 63 and is referred to as the NESHAP program or as MACT Standards. There are numerous categories of emission sources for which a specific NESHAP subpart applies. The paragraphs below present a description of the NESHAP applicability of this emissions source.

5.2.2.1 *Subpart B – Case-by-case MACT determination*

The proposed facility will be a major source of HAP and is subject to a case-by-case MACT determination.

5.2.2.2 *Subpart DDDDD – NESHAP for Industrial, Commercial and Institutional Boilers and Process Heaters*

Subpart DDDDD, *National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers at Area Sources* applies to all new, reconstructed and existing boilers located at a major source of hazardous air pollutants. The Thermogen facility is a major source for HAP.

Subpart DDDDD defines boiler to mean "an enclosed device using controlled flame combustion and having the primary purpose of recovering thermal energy in the form of steam or hot water." It defines a process heater as "an enclosed device using controlled flame, and the unit's primary purpose is to transfer heat indirectly to a process material (liquid, gas, or solid) or to a heat transfer material (e.g., glycol or a mixture of glycol and water) for use in a process unit, instead of generating steam. Process heaters are devices in which the combustion gases do not come into direct contact with process materials." The dry wood dust burner is not a boiler because it does not generate steam and it is not a process heater because there is direct contact with the burner exhaust and the process material.

The proposed natural gas-fired steam boiler is Subpart DDDDD, but because it combusts natural gas, it is not subject to any numerical emissions limits or fuel testing requirements. It is subject to certain work practice requirements, including a requirement to conduct periodic tune-ups.

5.2.2.3 Subpart ZZZZ – NESHAP for Reciprocating Internal Combustion Engines

The proposed emergency generator is a new engine and is not subject to any requirements under this subpart. The engine must meet the requirements of Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII.

6.0 AMBIENT IMPACT ASSESSMENT

A modeling protocol describing the processing of meteorological data, receptors and receptor elevations, selecting dispersion coefficients, interactive sources was submitted to MEDEP. This information presented in the modeling protocol is summarized below.

6.1 PSD CLASS I EVALUATION

The proposed facility is more than 100 kilometers from the nearest Class I area. Based on the Federal Land Manager screening methodology for Class I areas, the proposed facility emissions are not sufficient to warrant analysis of Class I Air Quality Related Values. A summary of the Class I screening analysis is presented in ***Table 8***.

6.2 EMISSION RATES AND STACK PARAMETERS

All emission rates and stack parameters used in the modeling are presented in ***Table 11***. Supporting calculations are presented in ***Appendix B***. The equipment layout and stack locations are shown in ***Figures 4 and 5***.

6.3 OPERATING SCENARIOS

The proposed facility is designed for steady state operation and process emission points will generally operate at a steady state. The firing rates of the dry wood dust burner providing heat for the dryer and the boiler providing steam for thermal treatment of dried wood chips may fluctuate with process conditions.

The dry wood dust burner will operate at an average firing rate of 115 MMBTU/hr. However, the burner heat input capacity is 160 MMBTU/hr which will allow for some variation in fuel characteristics, but which also reflects available burner sizes. This burner is one of several process units that exhaust through the main process exhaust from the RTO, and fluctuations in burner firing rate will affect exhaust flow rate only nominally (about 10 percent). Therefore, the modeling was based only on the 100 percent firing condition.

A worst case load evaluation was performed for the proposed steam boiler. The evaluation was performed using the AERMOD model and five years of meteorological data for loads of 100 percent, 75 percent, and 50 percent. The maximum 1-hour emission rates were modeled. Based on this analysis, the 100 percent load condition is the worst-case, and only the 100 percent load condition was be modeled.

6.4 GOOD ENGINEERING PRACTICE STACK HEIGHT

Good engineering practice (GEP) stack height is the minimum stack height that would prevent the exhaust plume from becoming entrained in the turbulent wake created by nearby buildings or obstructions. For stack heights that are less than GEP, the plume may be affected by the wake region, possibly resulting in higher ground level concentrations as the plume is more rapidly mixed to the ground. To model stacks less than GEP height, direction-specific building dimensions are included in the modeling. These dimensions are then utilized to modify the dispersion parameters in the model to account for the building/obstruction wake effects. Stacks that are greater than GEP height will not be influenced by the building and, therefore, direction specific building dimensions are not required by the model. Stacks that exceed both GEP height and 65 meters are treated as a prohibited dispersion technique and cannot be accounted for in the ambient impact assessment. In such cases the stacks are modeled as if they were 65 meters tall.

A GEP stack height analysis was conducted for all modeled sources in accordance with the USEPA stack height regulations (40 CFR Part 51) and the USEPA revised *Guideline for Determination of GEP Stack Height* (Technical Support Document for the Stack Height Regulations) (USEPA, 1985).

USEPA's Building Profile Input Program (BPIP) with the Prime (BPIP-Prime) downwash algorithm was used to calculate the GEP stack height and the direction-specific building dimensions required for input into the AERMOD model. BPIP requires the input of building dimension and stack parameters and calculates the GEP stack height for 36 separate wind directions (i.e., every 10 degrees).

The GEP height calculated by BPIP-Prime for the emission points at the proposed Thermogen facility is 170 feet (51.83 meters). All proposed emission points are less than 65 meters in height and were modeled at actual height.

6.5 MODEL AND MODEL OPTIONS

A refined modeling analysis was completed using the AERMOD model (version 13350) with five years of meteorological data. The AERMOD model addresses many complex modeling situations, including cavity downwash and elevated terrain, and it is the preferred regulatory model for distances up to 50 kilometers. The AERMOD model allows for several control options with respect to modeling conditions. The modeling utilized all the regulatory default options, including final plume rise, stack tip downwash, buoyancy induced dispersion, elimination of calm hours from averages, and no allowance for missing meteorological data. Direction-specific building dimensions from the BPIP-Prime model output were included in the modeling to account for building wake downwash.

6.6 DISPERSION PARAMETERS

Dispersion parameters were selected based on land use within 3 kilometers of the proposed facility location. The extent of different land use types were evaluated using ArcGis with the Maine Land Cover Database (MELCD). MELCD land cover classifications were then assigned to the land types used in the Auer Land Use classification scheme referenced on 40 CFR 51, Appendix W. Based on this scheme, 83 percent of the area within 3 kilometers of the project site is classified as rural, and rural dispersion coefficients were in the modeling.

6.7 RECEPTORS

The receptor grid consists of receptors at 20-meter spacing out to a distance of 600 meters, 50-meter spacing from 600 meters to 1 kilometer, 100-meter spacing from 1 kilometer to 2 kilometers, 500-meter spacing from 2 kilometers to 5 kilometers, 1000-meter spacing from

5 kilometers to 10 kilometers, and 2000-meter spacing from 10 kilometers to 37 kilometers. Hill top receptors at major terrain features have also been included in the receptor grid along with a 300-meter spacing grid around Mount Katahdin in Baxter State Park. Additional receptors have been included around the Great Northern Paper Mill in East Millinocket. Receptors within the Thermogen property that are located in the immediate area around the Thermogen equipment and the existing Millinocket Mill buildings have been excluded from the receptor grid. Receptor locations were identified using Universal Transverse Mercator (UTM) coordinates (Zone 19) referenced to the North American Datum of 1983 (NAD83).

Receptor elevations and corresponding receptor height scales were generated by the AERMAP pre-processor (version 11103) utilizing National Elevation Dataset (NED) data. The receptor height scale represents the nearby hill height that has the greatest influence on dispersion for each receptor. The receptor elevations and corresponding height scales generated by AERMAP from the NED data will be used in the modeling.

The NED is an elevation dataset that provides information in a seamless form with a consistent datum, elevation unit, and projection. The NED data used in this modeling was provided by the Maine Department of Environmental Protection (MEDEP). Due to the extent of the modeling domain additional NED seamless data files were obtained to cover the entire modeling domain.

The modeling domain, which consists of the geographic extent of terrain considered in the modeling, consists of the receptor grid, plus a buffer zone to accommodate any additional significant terrain elevations. The modeling domain was calculated using the domain calculation tool in Oris Solutions' BEEST software. The software identifies the USGS 7.5-minute quadrangles that meet the 10 percent slope criterion used to set receptor height scales. Because the USGS quadrangles are not aligned, the calculated domain was hand adjusted to ensure that the entire domain was within the extents of the terrain files.

6.8 METEOROLOGICAL DATA

Surface data for use in AERMOD consisted of 5 years of on-site meteorological data collected at the 295-foot (90-meter) meteorological tower located at the former Great Northern Paper - Millinocket Mill site. The on-site meteorological data set was provided by MEDEP, and it encompasses site-specific meteorological data characterizing the winds, temperatures, and atmospheric turbulence in the area around the Millinocket facility. MEDEP filled any small missing data gaps (2 hours or less) using linear interpolation, per USEPA guidance. Larger gaps of missing data (more than 2 hours) were coded as missing.

Valid meteorological data was collected from January 1, 1990 through December 31, 1993 and July 1, 1994 through June 30, 1995. The data was collected at three levels and included temperature data, wind speed, wind direction, and the standard deviation of the horizontal wind direction (Sigma-Theta). Specifically, the data collected at the 3-meter, 10-meter, and 90-meter instrumented tower levels included the following:

- Temperature (3-meters);
- Horizontal Wind Speed (10 and 90 meters);
- Horizontal Wind Direction (10 and 90 meters); and
- Sigma-Theta (10 and 90 meters).

The on-site data was supplemented by surface data from the National Weather Service (NWS) station at the Bangor International Airport, Bangor, Maine (WBAN No. 14606), and by upper air data from the NWS station in Caribou, Maine (WBAN No. 14607). The Bangor NWS hourly surface data was provided by MEDEP in the full archival Integrated Surface Hourly Data (TD 3505) format and was used to supplement missing data and to provide required variables that were not explicitly collected at the Millinocket meteorological monitoring site.

The on-site meteorological data set has previously been determined by MEDEP to be acceptable and was used for modeling at the site for the original permit application for the proposed Thermogen facility.

Meteorological data was processed into a format acceptable for use by the AERMOD model. The AERMET program was used to process surface and upper air meteorological data to create boundary layer scaling parameters and wind profile data for use in AERMOD. At MEDEP's request, the on-site, surface, and upper air meteorological data were processed with the latest version of AERMET (13350) using the on-site processing mode.

AERMET requires that the site-specific surface characteristics around the meteorological monitoring site be evaluated and defined. Accordingly, the site surface characteristic values for albedo (r), surface roughness (z_o), and the Bowen ratio (B_o) for each of twelve 30-degree sectors around the Millinocket and Bangor meteorological monitoring sites were developed using USEPA's AERSURFACE program (version 13016). AERSURFACE utilizes the land cover data from the USGS National Land Cover Data 1992 archives (NLCD92) to develop land cover types for the area around a user specified location. Twenty-one land cover categories in NLCD92 are linked to a set of seasonal surface characteristics within the AERSURFACE program, as summarized in the look-up tables in Appendix A of the AERSURFACE user's guide. The surface roughness (z_o), values were calculated within a 1-km radius of the meteorological measurement site while the values of albedo and Bowen ratio were developed over a 10-km by 10-km region centered on the meteorological monitoring site.

The seasonal categories for AERSURFACE were assigned in accordance with MEDEP guidance such that December, January, February, and March were assigned as Winter; April and May as Transitional Spring; June, July, and August as Midsummer; September and October as Autumn; and November as Late Autumn.

6.9 INTERACTIVE SOURCES

Five years of modeling was performed to define the significant impact area for the proposed Thermogen facility. Significant impacts were evaluated based on the highest predicted concentration at each receptor for each pollutant and averaging period. The results of the significant impact modeling are presented in ***Table 12***. For pollutants and averaging periods over the significant impact level, the significant impact area was determined using the Radius of Impact tool in Oris-Providence's BEEST software package, using the stack location for the proposed regenerative thermal oxidizer as the facility location.

As shown in ***Table 12***, the predicted CO impacts are less than the significant impact levels. The radius of impact for SO_2, PM_{10}, and $PM_{2.5}$ is less than 2 kilometers from the proposed oxidizer stack for each applicable averaging period. The radius of impact for NO_2 exceeds 33 kilometers. Based on the significant impact area of the Thermogen facility predicted by the model, the Great Northern Paper facility in East Millinocket is within the significant impact area for NO_2, but not for SO_2, PM_{10} and $PM_{2.5}$. Therefore interactive modeling was performed only for NO_2. The modeling parameters, including building data, for Great Northern Paper were provided by MEDEP and are included in ***Table 11***. Per discussions with MEDEP personnel, the Great Northern Paper facility is increment consuming for NO_2.

6.10 BACKGROUND DATA

Recommended conservative design background air quality data for rural sites in Eastern Maine were obtained from MEDEP and are presented in ***Table 13***.

6.11 AMBIENT AIR MONITORING WAIVER

Under the PSD program, pre-construction air monitoring can be required for pollutants for which the project results in a significant net emissions increase, depending on the predicted ambient impacts of the proposed facility and the availability of representative monitoring data to assure compliance with the NAAQS and PSD allowable increments.

Air monitoring is not required if the emissions increase from the new or modified stationary source will not result in impacts exceeding certain levels as listed in Chapter 115, subsection 7.D.(1). Ambient impacts for the proposed facility are compared to the applicable monitoring waiver concentrations in ***Table 14*** From the data presented in ***Table 14***, monitoring is not required for SO_2, CO, PM_{10}, and NO_2. $PM_{2.5}$ impacts exceed the monitoring threshold. However, Thermogen is requesting a monitoring waiver on the basis that adequate monitoring data is available to determine compliance with MAAQS and NAAQS. As discussed above, MEDEP has provided representative background air quality data for this ambient air quality impact assessment.

With respect to $PM_{2.5}$, adequate monitoring data are available from Maine's existing air monitoring network to assure that compliance with NAAQS and PSD allowable increments can be determined.

6.12 COMPARISON TO AMBIENT STANDARDS

A summary of the modeling results and a comparison to the MAAQS and NAAQS are presented in ***Table 15***. Modeling results include impacts of only the Thermogen facility, except for NO_2 modeling results, which include impacts from the Great Northern Paper facility in East Millinocket as well. Modeling results were added to the background concentrations for comparison to the applicable standards. The modeling results indicate that the proposed facility will not cause or contribute to an exceedance of any MAAQS or NAAQS. The modeling results reflected in ***Table 15*** are described below.

6.12.1 NO_2

Modeling for NO_2 was performed using the Tier 2 screening approach. The NO_2 emission rate was based on the empirically derived NO_X/NO_2 ratio of 0.75. Selection of the Tier 2 methodology is based on the results of preliminary modeling. For the 1-hour standard, the modeled 5-year average of the 8th highest (98th percentile) daily maximum 1-hour averages at any receptor was added to the background concentration. For the annual standard, the highest modeled annual average concentration at any receptor in the 5-year modeling period was added to the background concentration.

6.12.2 SO_2

For the 1-hour standard, the modeled 5-year average of the 4th highest (99th percentile) daily maximum 1-hour averages at any receptor was added to the background concentration. For the annual standard, the highest modeled annual average at any receptor in the 5-year modeling period was added to the background concentration. For compliance with the Maine 3-hour and 24-hour standards, the highest, second high modeled concentration at any receptor in the 5-year modeling period was added to the background concentration.

6.12.3 CO

For compliance with the 1-hour and 8-hour standards, the highest, second high modeled concentration in the five year modeling period was added to the background concentration.

6.12.4 PM_{10}

For the 24-hour PM_{10} standard, the highest, second highest concentration for five individual years over all receptors was added to the background concentration as a conservative alternative to using the concentration at the receptor with the highest, sixth high modeled concentration over a 5-year period. For the annual standard, the average of the individual highest modeled annual averages over all receptors was added to the background concentration.

6.12.5 $PM_{2.5}$

For the 24-hour $PM_{2.5}$ standard, the average of the highest modeled concentration in each year at each receptor over 5 years was added to the background concentration. To simplify the evaluation, the average of the highest, first high concentration of all receptors over 5 years was used as a conservative alternative to the 5-year average over individual receptors. For the annual standard, the average of the highest individual annual average over all receptors for each year was added to the background concentration.

6.13 PSD CLASS II INCREMENTS

PSD allowable Class II increments for Maine are presented in ***Table 16***. The highest annual and highest, second high short-term modeled impact over the 5-year modeling period for each pollutant for increment consuming sources was compared to the allowable Class II increments. The modeling results in ***Table 16*** indicate that the proposed Thermogen facility will not cause or contribute to an exceedance of a PSD Allowable Increment.

6.14 ADDITIONAL IMPACTS ANALYSIS FOR PSD

6.14.1 PSD Class I Impacts

The proposed facility is more than 100 kilometers from the nearest PSD Class I area and emissions are below the screening threshold for used by the Federal Land Managers for determining whether or not a Class I impact analysis is required. Therefore, the proposed facility is not expected to have a discernible impact on Air Quality Related Values in any Class I area.

6.14.2 Soils and Vegetation Impacts

The PSD program requires a review of impacts on sensitive vegetation and soils. The assessment of impacts was performed using the screening procedures and concentrations in *A Screening Procedure for the Impacts of Air Pollution on Plants, Soils, and Vegetation* (USEPA, 1980).

The screening concentrations in the referenced procedure are equivalent to or less stringent than the NAAQS and PSD allowable increments for annual NO_2, 24-hour SO_2 and the 1- and 8-hour CO concentrations. Results of the evaluation for other gaseous pollutants and averaging times are presented in ***Table 17***. The results in ***Table 17*** indicate that the emissions of these pollutants from Thermogen project will not have an adverse impact on vegetation.

Adverse impacts from emissions of trace metals present in particulate matter on vegetation and soils are not expected, as the proposed facility will combust biomass and natural gas, and emissions of such metals will be inherently low (See ***Table 4***).

6.14.3 Growth

The proposed Thermogen facility will occupy a portion of what was formerly the Great Northern Paper Mill, in Millinocket. The facility represents the next generation of forest products industry with the potential to revitalize a sector that has seen reductions in employment from the traditional paper making industry. The Town of Millinocket has lost substantial population over the last 20 years as a result of a decline in mill operations. Census data indicate a population of less than 4500 in 2010, compared to over 7000 in 1980. Housing and municipal infrastructure in the Millinocket once supported a much larger population and a much larger manufacturing operation than the proposed Thermogen facility.

The Millinocket mill was at one time the largest paper mill in the world and had over 4000 employees in Millinocket area. The proposed Thermogen facility will provide 55 direct jobs and has been projected to support over 250 indirect jobs in forestry, trucking and other supporting businesses. Facility construction, commissioning and startup will last about 12 months and will provide about 90 direct jobs at peak workforce.

The facility will result in less than 10 percent of the air emissions that were once generated by the Millinocket paper mill and will consume less than 1 percent of the water that was historically withdrawn from Ferguson Lake to support mill operations. Potable water supplied by Maine Water Company will be used only for sanitary purposes (all process water provided from the Lake – about 170,000 gallons per day). Wastewater from the facility (about 12,000 gallons per day) will be discharged to the Town of Millinocket Wastewater Treatment Facility, which has an ample current capacity and is permitted to accept 2.33MGD.

Based on the scale of operations of the proposed facility compared to prior operations at the Millinocket Paper Mill, significant industrial, commercial, and residential growth beyond historic norms is not anticipated, and the air quality impacts of growth will therefore be insignificant.

7.0 EMISSIONS OFFSETS

Major stationary sources that seek to locate within an area which is designated as nonattainment for or in the Ozone Transport Region (OTR) must obtain offset credits as provided in Chapter 113. This applies to any source that has the potential to emit significant emissions of the nonattainment pollutant after application of LAER.

Although Millinocket is not located in the designated ozone nonattainment area, it is within the Northeast Ozone Transport Region, as is the entire State of Maine. Therefore, under the Clean Air Act, VOCs are regulated as a nonattainment pollutant in the entire state and Thermogen is regulated as a new major source of a non-attainment pollutant. Therefore, Thermogen must obtain offsetting emission reductions from other sources.

Offset credits are obtained based on the classification of the area in which the new source is constructing. The minimum offset ratio for areas in the OTR is 1.15 to 1, which would apply to the Thermogen project.

Thermogen previously obtained offset credits of 205 tons to offset total VOC emissions of 178.3 tons of VOC emissions. These offsets were approved by MEDEP. The modifications to the proposed facility from the current permit will result in maximum annual VOC emissions of 85 tons. This is substantially less than the permitted emissions from the original facility design. Therefore, no additional VOC offsets are required.

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TABLES

TABLE 1
MAXIMUM ANNUAL POST-CONTROL EMISSION RATES LISTED BY SOURCE AND EMISSION POINT

Thermogen I, LLC
Millinocket, Maine

Emissions Source	NO_X (tons/yr)	CO (tons/yr)	SO_2 (tons/yr)	VOC (tons/yr)	PM (tons/yr)	PM_{10} (tons/yr)	$PM_{2.5}$ (tons/yr)	CO_2 (tons/yr)	Emission Point
Sawdust Burner	91.71	54.16	12.00	-	10.76	10.76	10.76	95,747	EP01 Main Process Stack
Dryer	-	-	-	6.99	-	-	-	-	
Oxidizer	0.67	-	-	-	-	-	-	1,968	
Thermal Treatment Island	-	-	-	55.56	1.08	1.08	1.08	-	
Pellet Aspiration System	-	-	-	10.53	0.01	0.01	0.01	-	
Steam Boiler	6.38	6.47	0.11	0.89	1.24	1.24	1.24	20,960	EP02 Boiler Stack
Pellet Coolers	-	-	-	11.05	22.88	2.29	1.14	-	EP03, EP04 Pellet Cooler Stacks (2)
Pellet System Fines Transfer System	-	-	-	-	0.29	0.29	0.29	-	EP11 Pellet System Fines Trans.
Dry Chip Transfer System	-	-	-	-	0.96	0.96	0.96	-	EP09 Dry Chip Transfer
Fuel Hammermill Aspiration Baghouse	-	-	-	-	0.14	0.14	0.14	-	EP10 Fuel Hammermills
Emergency Generator	0.72	0.55	0.0004	0.01	0.04	0.04	0.04	0.24	EP12 Emergency Generator
Totals	99.48	61.18	12.11	85.02	37.39	16.80	15.66	118,675	

Notes:
1. See ***Appendix B*** for supporting calculations.

TABLE 2
MAXIMUM POST-CONTROL HOURLY EMISSION RATES LISTED BY SOURCE AND EMISSION POINT

Thermogen I, LLC
Millinocket, Maine

Emissions Source	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	VOC (lb/hr)	PM (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Emission Point
Sawdust Burner/Dryer	30.56	18.05	4.00	1.68	3.58	3.58	3.58	EP01 Main Process Stack
Oxidizer	0.16	-	-	-	-	-	-	
Thermal Treatment Island	-	-	-	13.35	0.26	0.26	0.26	
Pellet Pneumatic System	-	-	-	2.53	0.003	0.003	0.003	
Total for Oxidizer Stack	30.72	18.05	4.00	17.56	3.85	3.85	3.85	
Steam Boiler	1.53	1.55	0.026	0.21	0.30	0.30	0.30	EP02 Boiler Stack
Pellet Coolers	-	-	-	2.66	5.50	0.55	0.27	EP03, EP04 Pellet Cooler Stacks (2)
Pellet System Fines Transfer System	-	-	-	-	0.07	0.07	0.07	EP11 Pellet System Fines Trans.
Dry Chip Transfer System	-	-	-	-	0.230	0.230	0.230	EP09 Dry Chip Transfer
Fuel Hammermill Aspiration Baghouse	-	-	-	-	0.034	0.034	0.034	EP10 Fuel Hammermills
Emergency Generator	0.72	0.55	0.0004	0.04	0.04	0.04	0.04	EP12 Emergency Generator

Notes:
1. See ***Appendix B*** for supporting calculations.

TABLE 3
PROPOSED EMISSIONS COMPARED TO MAJOR SOURCE THRESHOLDS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Emissions	Major Source Threshold		Significant Emission Rate	
	(tons/yr)	(tons/yr)	Exceeded	(tons/yr)	Exceeded
NO_X	99.48	100	No	40	Yes
SO_2	12.11	100	No	40	No
CO	61.18	100	No	100	No
PM	37.39	100	No	25	Yes
PM_{10}	16.80	100	No	15	Yes
PM2.5	15.66	100	No	10	Yes
VOC	85.02	50	Yes	40	Yes
CO_2e	118,675	100,000	Yes	75,000	Yes

Notes:
1. See ***Appendix B*** for supporting calculations.

TABLE 4
HAZARDOUS AIR POLLUTANT EMISSIONS SUMMARY

Thermogen I, LLC
Millinocket, Maine

Hazardous Air Pollutant	Emission Source (ton/yr)						Total (ton/yr)
	Dryer	Pellet Mill Aspiration	Pellet Cooler	Thermal Treatment	Boiler	Emergency Generator	
Acetaldehyde	1.29E-01	-	-	1.035E+01	-	5.34E-04	10.48
Acrolein	2.48E-01	-	-	-	-	6.20E-05	0.25
Arsenic	4.80E-04	-	-	-	3.48E-05	-	0.001
Benzene	4.81E-03	-	-	-	3.65E-04	6.25E-04	0.006
Chromium	2.88E-04	-	-	-	2.43E-04	-	0.00
Cumene	1.79E-02	-	-	-	-	-	0.018
Formaldehyde	3.85E-01	-	-	8.414E-02	1.30E-02	7.91E-04	0.48
Hydrogen Chloride	4.13E-01	-	-	-	-	-	0.41
Manganese	7.20E-02	-	-	-	6.60E-05	-	0.07
Methanol	2.20E-02	1.80E-01	5.68E-03	1.429E+01	-	-	14.50
Methyl Isobutyl Ketone	8.80E-02	-	-	-	-	-	0.09
Nickel	1.39E-03	-	-	-	3.65E-04	-	0.00
Phenol	1.03E-02	-	-	-	-	-	0.010
Propionaldehyde	5.50E-03	-	-	-	-	-	0.006
Styrene	1.38E-02	-	-	-	-	-	0.014
Toluene	6.33E-02	-	-	-	5.91E-04	2.74E-04	0.064
Dichlorobenzene	-	-	-	-	2.09E-04	-	0.0002
Hexane	-	-	-	-	3.13E-01	-	0.31
Naphthalene	-	-	-	-	1.06E-04	5.68E-05	0.00016
Antimony	2.02E-04	-	-	-	-	-	0.00020
Beryllium	9.1E-04	-	-	-	2.09E-06	-	0.000914
Cadmium	9.1E-04	-	-	-	1.91E-04	-	0.00110
Cobalt	9.1E-05	-	-	-	1.46E-05	-	0.00011
Lead	2.8E-03	-	-	-	-	-	0.00279
Mercury	4.8E-03	-	-	-	4.52E-05	-	0.00480
Selenium	1.4E-03	-	-	-	4.17E-06	-	0.001445
Xylenes	-	-	-	-	-	1.91E-05	0.00002
1,3-Butadiene	-	-	-	-	-	2.62E-05	0.00003
Total PAHs	-	-	-	-	1.50E-05	1.13E-04	0.00013
Total HAP (ton/yr)	**1.49**	**0.18**	**0.01**	**24.72**	**0.33**	**0.003**	**26.73**

Notes:
1. See ***Appendix B*** for supporting calculations.

TABLE 5
CONTROL TECHNOLOGY FOR BIOMASS-FIRED DRYERS

Thermogen I, LLC
Millinocket, Maine

Facility	Description	Throughput	State	Date of Permit Issuance	Emission Limit					Control Technology
					NOx	PM_{10}	SO_2	VOC	CO	
Beaver Wood Energy Fair Haven, LLC	Wood Fired Dryer for Pellet Mill	30 MMBtu/hr 11 ODT/hr	Vermont	2/1/2012	0.35 lb/MMBtu	0.02 lb/ODT	0.025 lb/MMBtu	0.95 lb/ODT	0.25 lb/MMBtu	Cyclone & Baghouse
International Biofuels	Wood-fired heater and rotary dryer for pellet mill	77 MMBTU/hr	Virginia	12/13/2005	0.22 lb/MMBTU	6.9 lb/hr	3.9 lb/hr	37.8 lb/hr	0.19 lb/MMBTU	Settling chambers, cyclones, thermal oxidizer (99% VOC Removal efficiency[R..E.])
Great Northern Pellets, LLC	Wood Fired Dryer	5 MMBtu/hr 3.26 ODT/hr	New Hampshire	9/1/2011	0.33 lb/MMBtu	2.76 lb/ODT	-	-	-	Cyclones
Northeast Pellets	Sawdust Fired Triple Pass Dryer	12 MMBtu/hr	Maine	1/1/2011	-	0.3 lb/MMBtu	-	-	-	Cyclone and 800 °F Dryer Inlet Temp Limit
Geneva Energy Maine	Wood Fired Dryer	40 MMBtu/hr	Maine	6/1/2010	0.27 lb/MMBtu	8.5 lb/hr	0.047 lb/MMBtu	9.7 lb/hr	0.27 lb/MMBtu	Multiple Cyclones and Good Combustion Practices
Deposit Wood Pellet, LLC	Wood Fired Rotary Kiln Dryer	15 ODT/hr	New York	4/1/2010		0.050 grains/cf		0.57 lbs/ODT		Multiple Cyclones
Maine Woods Pellet Company	Wood Fired Dryer	50 MMBtu/hr	Maine	2/1/2010	12.3 TPY	8.5 lb/hr	12.5 TPY	12.5 lb/hr	37 TPY	Cyclone and Wet Scrubber
Presby North Country Wood Pellets, Inc.	Wood Fired Dryer	20 MMBtu/hr 8 ODT/hr	New Hampshire	7/1/2009	-	2.06 lb/ODT	-	-	-	Multiple Cyclones
Woodstone NY, LLC	Wood Fired Rotary Kiln Dryer	38 MMBtu/hr 13.2 ODT/hr	New York	1/1/2009	0.59 lb/MMBtu	0.050 grains/cf	-	0.85 lb/ODT	-	Multiple Cyclones
Corinth Wood Pellets	Wood Fired Rotary Dryer	20 MMBtu/hr 11.1 OTD/hr	Maine	10/1/2008	0.29 lb/MMBtu	Softwood: 2.30 lb/ODT Hardwood: 2.70	0.05 lb/ODT	Softwood: 2.09 lb/ODT Hardwood: 1.00		Two Cyclones, Good Combustion and Operation Practices
New England Wood Pellet, LLC	Wood Fired Rotary Dryer	40 MMBtu/hr 10.2 ODT/hr	New Hampshire	3/1/2007	-	1.18 lb/ODT	-	-	-	Multiple Cyclones
Schuyler Wood Pellet, LLC	Wood Fired Rotary Kiln Dryer	50 MMBtu/hr 15 ODT/hr	New York	8/1/2006	-	1.40 lb/ODT	-	0.70 lb/ODT	-	Multiple Cyclone and 1700 °F Dryer Inlet Temp Limit
Eureka Pellet Mill	Coen Burner, Triple Pass Rotary Dryer	35 MMBtu/hr 9 ODT/hr	Montana	12/19/2006	0.42 lb/MMBtu	0.2 lb/ODT	-	0.69 lb/ODT	0.35 lb/MMBtu	Low NOX, air staging burner, cyclone, fabric filter
FROM RBLC										
Martco, LP	Wood Fired Rotary Dryers (3)	*Per Unit:* 174 MMBtu/hr 24.1 ODT/hr	Louisiana	8/22/2011	0.118 lb/MMBTU (natural gas)	0.08 lb/ODT (natural gas)	0.17 lb/ODT	0.25 lb/ODT	2.11 lb/ODT	Regen Thermal Oxidation (RTO), Venturi Scrubber and Wet Electrostatic Precipitator (WESP), low NO_X burner and water injection, RTO
Louisiana-Pacific Co. Sagola Mill	Flake Dryers with Process Cyclone (3)	310,000 ton/yr	Michigan	1/31/2008	Hardwood: 0.62 lb/ton of prod. Softwood: 1.24 lb/ton of prod.	0.007 gr/dscf	-	Hardwood: 0.29 lb/ton of prod. Softwood: 0.37 lb/ton of prod.	Hardwood: 3.64 lb/ ton of prod. Softwood: 4.39 lb/ton of prod.	Low NO_X burner and good combustion practices to control NO_X, RTO to control VOC and formaldehyde, Wet ESP and cyclone to control PM
Louisiana-Pacific Co. Clarke County	Bark Burner/Dryer with ESP and RTO	188 MMBtu/hr 42.5 ODT/hr	Alabama	6/14/2006	0.28 lb/MMBTU	0.19 lb/ODT (filterable PM_{10})	0.11 lb/ODT	0.55 lb/ODT	0.47 lb/ODT	WESP to control PM (93% R.E), good design and operation for NO_X, RTO to control CO and VOCs (90% R.E.)
Paragon Panels of Alabama, LLC	Wood Fiber Prep and Drying	151.0 MMSF/yr	Alabama	4/12/2006	80 lb/hr	20.57 lb/hr	-	27.35 lb/hr	-	Two RTOs with low NOX burners to control PM and VOC emissions (95% R.E.)
Norbord	Wood Flake Dryers (2)	52 ODT/hr	Georgia	6/3/2005	0.28 lb/MMBTU	0.55 lb/ODT	-	1.2 lb/ODT	0.28 lb/MMBTU	WESP on PM, RTO to control CO and VOC
Louisiana-Pacific Co. Pacific Hayward	Dryers, Rotary or Single Pass (4)	-	Wisconsin	6/17/2004	*Per Unit:* 21.9 lb/hr	*Per Unit:* 6.10 lb/hr	-	13.05 lb/hr (First Unit) 9.79 lb/hr (Second Unit)	*Per Unit:* 110.90 lb/hr	Thermal oxidizer, wet ESP, high efficiency cyclones, low NOX burners in oxidation system, good combustion practices to control NO_X and VOC
Louisiana-Pacific Co. Carhage Oriented Strandboard Mill	Dryer RTOs (2)	-	Texas	3/16/2004	2.68 lb/hr	7.34 lb/hr (filterable PM_{10})	-	4.20 lb/hr	149.14 lb/hr	WESPs and RTOs to control PM and CO, oxidizer with low NO_X burners to control CO
Louisiana-Pacific Co. Jasper Oriented Strandboard Mill	Dryer RTOs (5)	-	Texas	2/9/2004	81.75 lb/hr	9.17 lb/hr	2.18 lb/hr	5.25 lb/hr	186.43 lb/hr	WESPs and RTOs to control CO and VOCs, oxidizer with low NO_X burners to control CO and NO
Georgia Pacific Oriented Strandboard Mill Facility	Rotary Chip Dryers (5)	*Per Unit:* 40 MMBTU/hr 600 MMSF/yr	Arkansas	1/7/2003	0.37 lb/MMBTU	*Per Unit:* 18.82 lb/hr	-	*Per Unit:* 31.9 lb/hr	1.3 lb/MMBTU	RTOs and Multiclones to control CO (40% R.E.), VOC (90% R.E.), PM (80% R.E.), and some formaldehyde, low NO_X burner to control NO_X
Weyerhaeuser	Natural Gas and Wood-fired Dryers and Burners (4)	*Total:* 54 ODT/hr *Per Unit:* 40 MMBtu/hr	Michigan	6/11/2002	23.15 lb/hr (includes natural gas firing)	0.55 lb/ODT (filterable PM_{10})	0.01 lb/ODT	0.34 lb/ODT	0.92 lb/MMBTU	RTO to control benzo(a)pyrene, CO, formaldehyde, and VOC , WESP and RTO to control PM, low excess air firing to control NO_X
Georgia Pacific Oriented Strandboard Facility	OBS Dryers (5)	*Per Unit:* 475 MMSF/yr	Arkansas	6/29/2000	*Per Unit:* 14.66 lb/hr	*Per Unit:* 14.89 lb/hr	-	*Per Unit:* 25.25 lb/hr	*Per Unit:* 6.72 lb/hr	RTO with multiclones and good combustion to control CO (75% R.E.), PM and VOC (90% R.E.), low NO_X burners to control NO_X
Potlatch Corporation	Wood Wafer Dryer, Triple Pass Rotary Drum	16.5 ODT/hr	Louisiana	12/4/2000	0.5 lb/ton	0.36 lb/ton	-	0.48 lb/ton	0.36 lb/ton	WESP to control PM, RTO to control CO, VOC
Louisiana-Pacific Co. Urania Plant	Flash Tube Dryers (2)	7.5 ODT/hr	Louisiana	12/7/2000	4.31 lb/ton	1.93 lb/ton (filterable PM_{10})	-	0.70 lb/ton	1.31 lb/ton	RTOs to control PM and VOC, proper combustion practices to control CO and NO_X

Notes:
1. Throughputs and Emission Limits are listed as totals per facility, unless otherwise noted.
2. See ***Appendix C*** for RBLC output listing.

TABLE 6
SUMMARY OF CONTROL TECHNOLOGY LIMITS FOR PELLETIZERS

Thermogen I, LLC
Millinocket, Maine

	Date of Issuance	State	Equipment	Control Method
Thermogen I, LLC	2/2012	Vermont	115,000 ODT/yr Pellet Mill	Fabric Filter
Millinocket, Maine	6/2010	Maine	Pelletizer	Cyclone
Deposit Wood Pellet LLC	4/2010	New York	Four Pellet Mills	Multiple Cyclone, Two Baghouses
Maine Woods Pellet Company	2/2010	Maine	Three Pellet Mills	Dust Collection Cyclone, Baghouse
Woodstone NY, LLC	1/2009	New York	Three Pellet Presses	Cyclone, Fabric Filter
Corinth Wood Pellets	10/2008	Maine	22 ton/hr Pellet Processing Operation	RAF Baghouse, Cyclone
Schuyler Wood Pellet, LLC	8/2006	New York	Three Pellet Mills	Two Baghouses

TABLE 7
REPRESENTATIVE BACT GUIDANCE AND RULES FOR NATURAL GAS BOILERS

Thermogen I, LLC
Millinocket, Maine

Rule or Guidance	Technology	NO_X	SO_2	CO	PM	VOC
Massachusetts "Top Case" BACT for Boilers < 40 MMBTU/hr	Low-NO_X Burners and FGR	0.035 lb/MMBTU	NA	0.08 lb/MMBTU	0.01 lb/MMBTU	0.03 lb/MMBTU
Massachusetts "Top Case" BACT for Boilers > 40 MMBTU/hr and < 100 MMBTU/hr heat input	Ultra-low NO_X Burner	0.011 lb/MMBTU (9 ppmvd)	NA	0.035 lb/MMBTU	0.002 lb/MMBTU	0.035 lb/MMBTU
NJ SOTA for Boilers 10 - 50 MMBTU/hr	Low NO_X burners and FGR or ultra-low NO_X Burners.	0.035 lb/MMBTU	-	0.05	-	0.005
SCAQMD boilers > 20 MMBTU/hr heat input	Not Specified	9 ppmvd@3% O_2 7 ppmvd if add-on controls are used	-	100 ppmvd@3% O_2 for watertube boilers 50 ppmvd @ 3% O2 for firetube boilers	natural gas firing	-

TABLE 8
CLASS I SCREENING

Thermogen I, LLC
Millinocket, Maine

Class I Area	Acadia National Park	Moosehorn NWR Baring Unit	Moosehorn NWR Edmunds Unit	Roosevelt Campobello International Park	Great Gulf Wilderness Area
Approximate Distance	137 km	123 km	143 km	160 km	250 km
Total Screening Emissions	128.39 ton/yr	128.39 ton/yr	128.39 ton/yr	128.39 ton/yr	128.39 ton/yr
Screening Ratio (tons/km)	0.9	1.0	0.9	0.8	0.5
ScreeningThreshold (tons/km)	10	10	10	10	10
Below Threshold?	Yes	Yes	Yes	Yes	Yes

Notes:
1. The Class I Initial Screening Criteria are described in *Federal Land Managers' Air Quality Related Values Work Group, Phase I Report - Revised (2010)*.
2. Screening emissions are based on total annual emissions of NO_X, SO_2, PM_{10} and H_2SO_4. H_2SO_4 emissions from the proposed facility are negligible.
3. Screening ratio = Total Screening Emissions (tons/yr)/ Distance (km)

TABLE 9
APPLICABLE AMBIENT AIR QUALITY STANDARDS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	AAQS ($\mu g/m^3$)	Form of Standard
NO_2	1-hour	188	3-year average of the 98th percentile daily maximum 1-hour concentration
	Annual	100	Cannot be exceeded
CO	1-Hour	40,000	2nd highest in year
	8-Hour	10,000	2nd highest in year
SO_2	1-hour	196	3-year average of the 99th percentile daily maximum 1-hour concentration
	3-Hour	1,300	2nd highest in year
	24-Hour	365	2nd highest in year
	Annual	80	Cannot be exceeded
$PM_{2.5}$	24-Hour	35	3-year average of the 98th percentile 24-hour concentration
	Annual	12	3-year average of annual concentrations
PM_{10}	24-Hour	150	Expected exceedances less than one
	Annual	-	Repealed

Notes:
1. AAQS from 06-096 CMR 110, except the $PM_{2.5}$ annual standard, which reflects changes in the NAAQS not yet adopted in Maine.

TABLE 10
ALLOWABLE AIR QUALITY INCREMENTS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Class II Allowable Increment ($\mu g/m^3$)	Form of Standard
NO_2	Annual	25	Cannot be exceeded
SO_2	3-Hour	512	Cannot be exceeded more than once per year
	24-Hour	91	Cannot be exceeded more than once per year
	Annual	20	Cannot be exceeded
$PM_{2.5}$	24-Hour	9	Cannot be exceeded more than once per year
	Annual	4	Cannot be exceeded
PM_{10}	24-Hour	30	Cannot be exceeded more than once per year
	Annual	17	Cannot be exceeded

Notes:
1. Allowable Increments from 06-096 CMR 110.

TABLE 11
STACK PARAMETERS AND EMISSION RATES FOR MODELING

Thermogen I, LLC
Millinocket, Maine

ENGLISH UNITS

Emission Point		UTM Easting (m)	UTM Northing (m)	Base Elev. (ft MSL)	Stack Height (ft AGL)	Orientation	Exit Temp. (F)	Exit Diameter (ft)	Exit Flow Rate (ft^3/min)	Exit Velocity (ft/sec)	SO_2 Emission Rate (lb/hr)	CO Emission Rate (lb/hr)	NO_2 Emission Rate (lb/hr)	PM_{10} Emission Rate (lb/hr)	$PM_{2.5}$ Emission Rate (lb/hr)
RTO Stack	EP01	523206.58	5054710.7	375	150	vertical	232	7.50	183,200	69.1	4.000	18.048	23.040	3.846	3.846
Dry Fuel Hammermill Baghouse	EP10	523121.74	5054690.1	375	79	vertical	100	2.33	14,533	56.8	-	-	-	0.034	0.034
Steam Boiler	EP02	523200.39	5054718.1	375	79	vertical	450	2.17	13,199	59.5	0.026	1.555	1.150	0.298	0.298
Dry Chip Pneumatic Transfer System	EP09	523208.91	5054682.5	375	99	vertical	90	1.67	6,986	53.2	-	-	-	0.230	0.230
Pellet Cooler 1	EP03	523220.42	5054655.4	375	89	vertical	110	3.33	30,000	57.4	-	-	-	0.275	0.137
Pellet Cooler 2	EP04	523216.44	5054660.2	375	89	vertical	110	3.33	30,000	57.4	-	-	-	0.275	0.137
Pellet System Fines Transfer	EP11	523215.42	5054686.9	375	89	vertical	90	0.67	1,040	49.2	-	-	-	0.070	0.070
Great Northern Paper Boiler 1	EB1	533141.05	5052263.3	305	169	vertical	350	9.00	111,820	29.3	-	-	73.993	-	-
Great Northern Paper Boiler 2	EB2	533148.19	5052275.6	305	169	vertical	350	9.00	111,820	29.3	-	-	73.993	-	-
Great Northern Paper Boiler 3	EB3	533125.93	5052317.1	305	269	vertical	350	9.00	190,895	50.0	-	-	361.355	-	-

METRIC UNITS

Emission Point		UTM Easting (m)	UTM Northing (m)	Base Elev. (m MSL)	Stack Height (mAGL)	Orientation	Exit Temp. (K)	Exit Diameter (m)	Exit Flow Rate (m^3/sec)	Exit Velocity (m/sec)	SO_2 Emission Rate (gm/sec)	CO Emission Rate (gm/sec)	NO_2 Emission Rate (gm/sec)	PM_{10} Emission Rate (gm/sec)	$PM_{2.5}$ Emission Rate (gm/sec)
RTO Stack	EP01	523206.58	5054710.7	114.3	45.7	vertical	384.3	2.29	86.47	21.07	0.504	2.274	2.903	0.485	0.485
Dry Fuel Hammermill Baghouse	EP10	523121.74	5054690.1	114.3	24.1	vertical	310.9	0.71	6.86	17.31	-	-	-	0.004	0.004
Steam Boiler	EP02	523200.39	5054718.1	114.3	24.1	vertical	505.4	0.66	6.23	18.13	0.003	0.196	0.145	0.038	0.038
Dry Chip Pneumatic Transfer System	EP09	523208.91	5054682.5	114.3	30.2	vertical	305.4	0.51	3.30	16.20	-	-	-	0.029	0.029
Pellet Cooler 1	EP03	523220.42	5054655.4	114.3	27.1	vertical	316.5	1.01	14.16	17.50	-	-	-	0.035	0.017
Pellet Cooler 2	EP04	523216.44	5054660.2	114.3	27.1	vertical	316.5	1.01	14.16	17.50	-	-	-	0.035	0.017
Pellet System Fines Transfer	EP11	523215.42	5054686.9	114.3	27.1	vertical	305.4	0.20	0.49	14.99	-	-	-	0.009	0.009
Great Northern Paper Boiler 1	EB1	533141.05	5052263.3	93.1	51.5	vertical	449.8	2.74	52.78	8.93	-	-	9.323	-	-
Great Northern Paper Boiler 2	EB2	533148.19	5052275.6	93.1	51.5	vertical	449.8	2.74	52.78	8.93	-	-	9.323	-	-
Great Northern Paper Boiler 3	EB3	533125.93	5052317.1	93.0	82.0	vertical	449.8	2.74	90.10	15.24	-	-	45.531	-	-

Notes:
1. NO_2 emission rates refelct the default NO_2/NO_X ratio of 0.75.

TABLE 12
RADIUS OF IMPACT

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Thermogen Modeled Impact ($\mu g/m^3$)	Significant Impact Level ($\mu g/m^3$)	Radius of Impact (m)
NO_2	1-Hour	73.72	10	33,661
	Annual	2.33	1	954
CO	1-Hour	57.74	2,000	0
	8-Hour	21.27	500	0
SO_2	1-hour	12.80	10	1,306
	3-Hour	8.86	25	0
	24-Hour	2.59	5	0
	Annual	0.24	1	0
$PM_{2.5}$	24-Hour	7.08	1.2	1,662
	Annual	1.44	0.3	978
PM_{10}	24-Hour	8.58	5	264
	Annual	1.76	1	302

Notes:
1. Significant impact area (SIA) for less than annual periods is based on the highest, 1st high concentration during the five -year modeling period.
2. CO interactive modeling is not required because the Thermogen facility impacts are below the Significant Impact Levels (SILs).
3. SO_2, $PM_{2.5}$, and PM_{10} interactive modeling will not be performed because there are no interactive facilities within the SIA.
4. The Great Northern Paper facility is within the SIA for NO_2. Interactive modeling must be performed.

TABLE 13
BACKGROUND AIR QUALITY DATA

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Background Concentration ($\mu g/m^3$)	Notes
NO_2	1-Hour	43	MicMac Site - Presque Isle (Site #23-003-1100), July 2009 - June 2012 data, design value for rural NO_2
	Annual	4	MicMac Site - Presque Isle (Site #23-003-1100), 2010-2012 data
CO	1-Hour	365	MacFarland Hill - Acadia National Park (Site #23-009-0103), 2011/2012 data
	8-Hour	322	MacFarland Hill - Acadia National Park (Site #23-009-0103), 2011/2012 data
SO_2	1-Hour	24	MicMac Site - Presque Isle 2009-2011 design value, averaged over the three-year period
	3-Hour	18	MacFarland Hill - Acadia National Park (Site #23-009-0103)
	24-Hour	11	MacFarland Hill - Acadia National Park (Site #23-009-0103)
	Annual	1	MacFarland Hill - Acadia National Park (Site #23-009-0103)
$PM_{2.5}$	24-Hour	17	Greenville Site - Greenville, 2008-2010 design value, averaged over the three-year period
	Annual	5	Greenville Site - Greenville, 2008-2010 design value, averaged over the three-year period
PM_{10}	24-Hour	42	Background Site - Baileyville (Site #23-029-0020), 1994 data
	Annual	10	Background Site - Baileyville (Site #23-029-0020), 1994 data

Source: Maine Department of Environmental Protection Background Air Quality for Rural Sites:
http://www.state.me.us/dep/air/meteorology/background.html.

TABLE 14
PRE-APPLICATION MONITORING WAIVER

Thermogen I, LLC
Millinocket, Maine

Pollutant	**Averaging Time**	**Proposed Facility Modeled Impact ($\mu g/m^3$)**	**Monitoring de minimis Level ($\mu g/m^3$)**	**Exceeds de minimis?**
CO	8-Hour	19	575	No
NO_2	Annual	2.3	14	No
SO_2	24-Hour	2.2	13	No
$PM_{2.5}$	24-Hour	6.2	4	Yes
PM_{10}	24-Hour	8	10	No
Lead	24-Hour	0.0005	0.10	No
Mercury	24-Hour	0.0010	0.25	No
Beryllium	24-Hour	0.0002	0.0005	No
Chromium	24-Hour	0.0005	0.02	No

Notes:
1. Short-term impacts are based on the receptor with the highest, second high concentration in the five-year modeling period. Annual impacts are based on the receptor with the highest annual average concentration in the five-year modeling period.
2. Metal impacts estimated multiplying PM_{10} ambient impacts by ratio of metal emissions to PM_{10} emissions. See ***Appendix B*** for supporting calculations.

TABLE 15
INCREMENT CONSUMPTION MODELING RESULTS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	PSD Allowable Increment ($\mu g/m^3$)	Thermogen Maximum Increment Consumption ($\mu g/m^3$)	All Sources Maximum Increment Consumption ($\mu g/m^3$)	Increment within Allowable?
NO_2	Annual	25	2.33	2.79	Yes
SO_2	3-Hour	512	5.49	5.49	Yes
	24-Hour	91	2.18	2.18	Yes
	Annual	20	0.24	0.24	Yes
$PM_{2.5}$	24-Hour	9	6.17	6.17	Yes
	Annual	4	1.44	1.44	Yes
PM_{10}	24-Hour	30	7.81	7.81	Yes
	Annual	17	1.76	1.76	Yes

Notes:
1. The Thermogen facility consumes increment for NO2, SO2, PM2.5, and PM10.
2. NO_2 results include the Great Northern Paper facility in East Millinocket.
3. Maximum increment consumption is the highest annual or highest, 2nd high short-term concentration that occurred within the five-year period modeled.
4. Detailed modeling results are presented in ***Appendix D***.

TABLE 16
MAAQS AND NAAQS MODELING RESULTS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Thermogen Maximum Modeled Impact (μg/m^3)	All Sources Maximum Modeled Impact (μg/m^3)	Background Concentration (μg/m^3)	Total Concentration (μg/m^3)	MAAQS or NAAQS (μg/m^3)	Below MAAQS or NAAQS ?
NO_2	1-Hour	28.2	116.9	43	160	188	yes
	Annual	2.3	2.8	4	6.8	100	yes
CO	1-Hour	44.8	44.8	365	409.8	40,000	yes
	8-Hour	18.9	18.9	322	340.9	10,000	yes
SO_2	1-hour	5.3	5.3	24	29.3	196	yes
	3-Hour	5.5	5.5	18	23.5	1,300	yes
	24-Hour	2.2	2.2	11	13.2	365	yes
	Annual	0.2	0.2	1	1.2	80	yes
$PM_{2.5}$	24-Hour	6.1	6.1	17	23.1	35	yes
	Annual	1.3	1.3	5	6.3	12	yes
PM_{10}	24-Hour	7.8	7.8	42	49.8	150	yes
	Annual	1.6	1.6	10	11.6	-	-

Notes:
1. Modeled CO impacts, PM_{10} 24-hour impacts, and SO_2 3-hour and 24-hour impacts based on highest, second highest concentration that occurred within 5-year period.
2. Modeled NO_2 1-hour impacts based on the five-year average of the 98th percentile 1-hour daily maximum concentration.
3. Modeled SO_2 1-hour impacts based on the five-year average of the 99th percentile 1-hour daily maximum concentration.
4. Modeled annual impacts based on the highest annual impacts at any receptor, except PM_{10} and $PM_{2.5}$, which are based on the 5-year average of maximum annual impacts.
5. Background concentrations provided by MEDEP. See ***Table 13***.
6. Total concentration is the sum of the maximum modeled impact for all sources and the background concentration.
7. Interactive source modeling was performed only for NO_2.

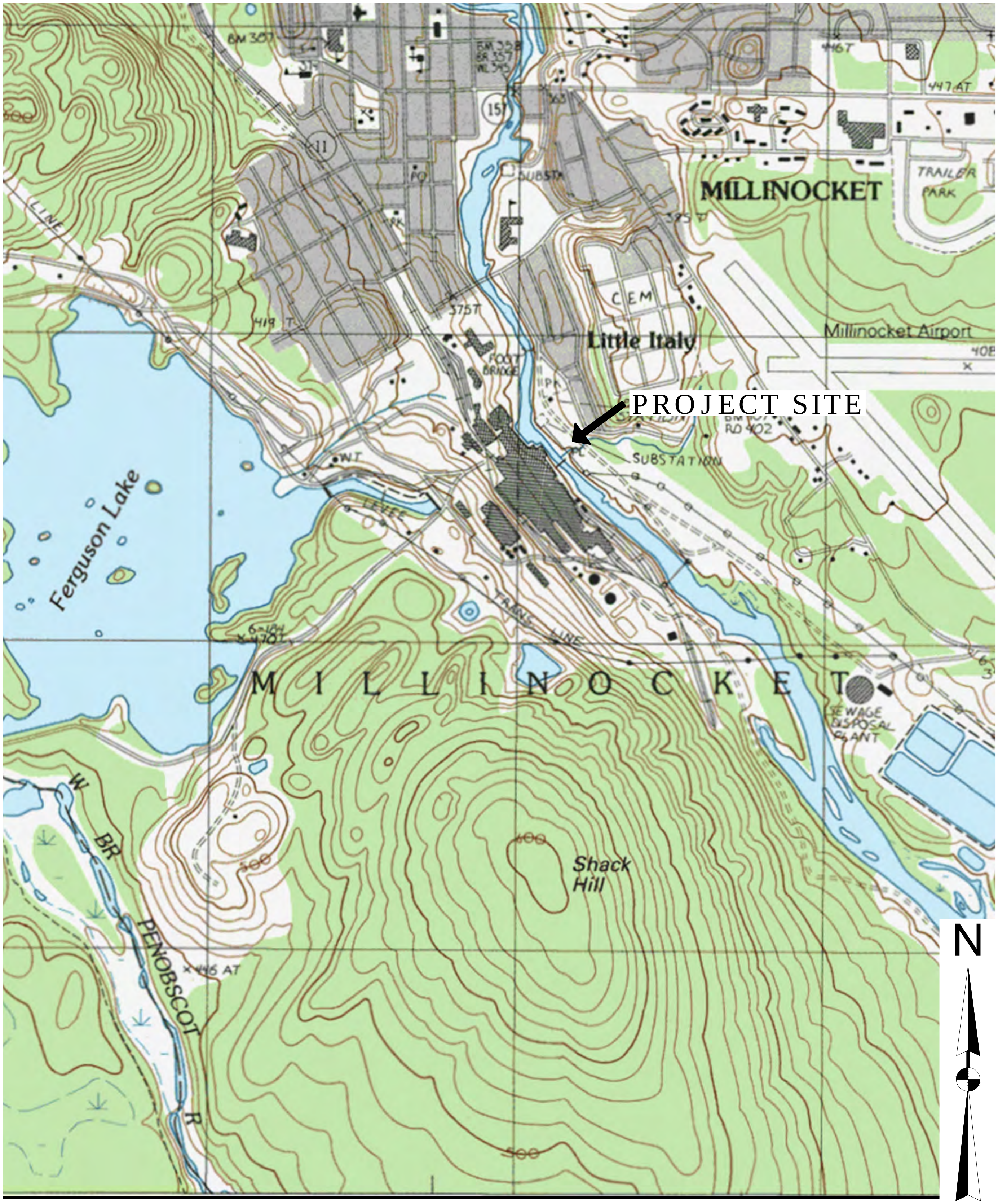
TABLE 17
VEGETATION IMPACTS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Screening Concentration ($\mu g/m^3$)	Maximum Modeled Impact of Thermogen ($\mu g/m^3$)	Maximum Modeled Ambient Impacts (All Sources) ($\mu g/m^3$)	Exceeds Screening Threshold?
SO_2	1-hour	917	9.9	34	No
SO_2	3-hour	786	5.5	23	No
SO_2	Annual	18	0.2	1	No
NO_2	4-Hour	3,760	25.0	139	No
NO_2	8-Hour	3,760	21.4	96	No

Notes:
1. The maximum ambient impacts include all modeled sources plus background concentrations from ***Table 13.***
2. SO_2 and NO_2 screening levels based on the minimum concentration at which adverse growth effects occur in sensitive species as reported in *A Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils, and Animals* (EPA 1980).
3. NO_2 impacts reflect the default NO_2/NO_X ratio of 0.75.
4. Short-term SO_2 and short-term NO_2 impacts based on the highest, second high concentration.
5. Interactive sources included only for NO_2.
6. Screening concentrations that are less stringent than applicable MAAQS and NAAQS are not shown.

FIGURES



NO.	ISSUE/DESCRIPTION	BY	DATE

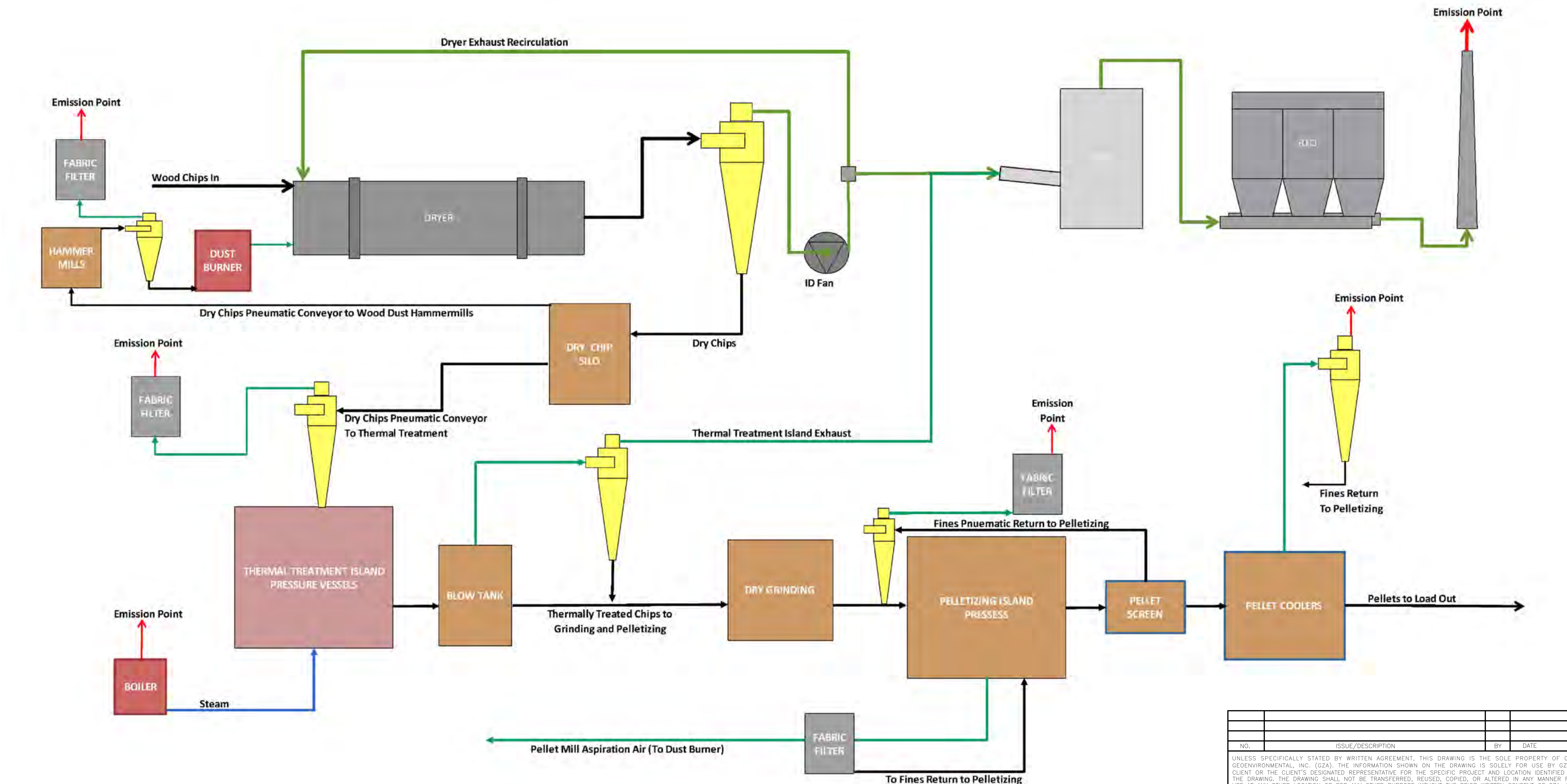
PROPOSED ADVANCED BIO FUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

LOCUS MAP

PROJ MGR: PM	REVIEWED BY: REV	CHECKED BY: CKD	FIGURE
DESIGNED BY: DES	DRAWN BY: MR	SCALE: NTS	1
DATE: MAY, 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 1 OF 7



NO.	ISSUE/DESCRIPTION	BY	DATE

PROPOSED ADVANCED BIO FUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

PROCESS FLOW DIAGRAM

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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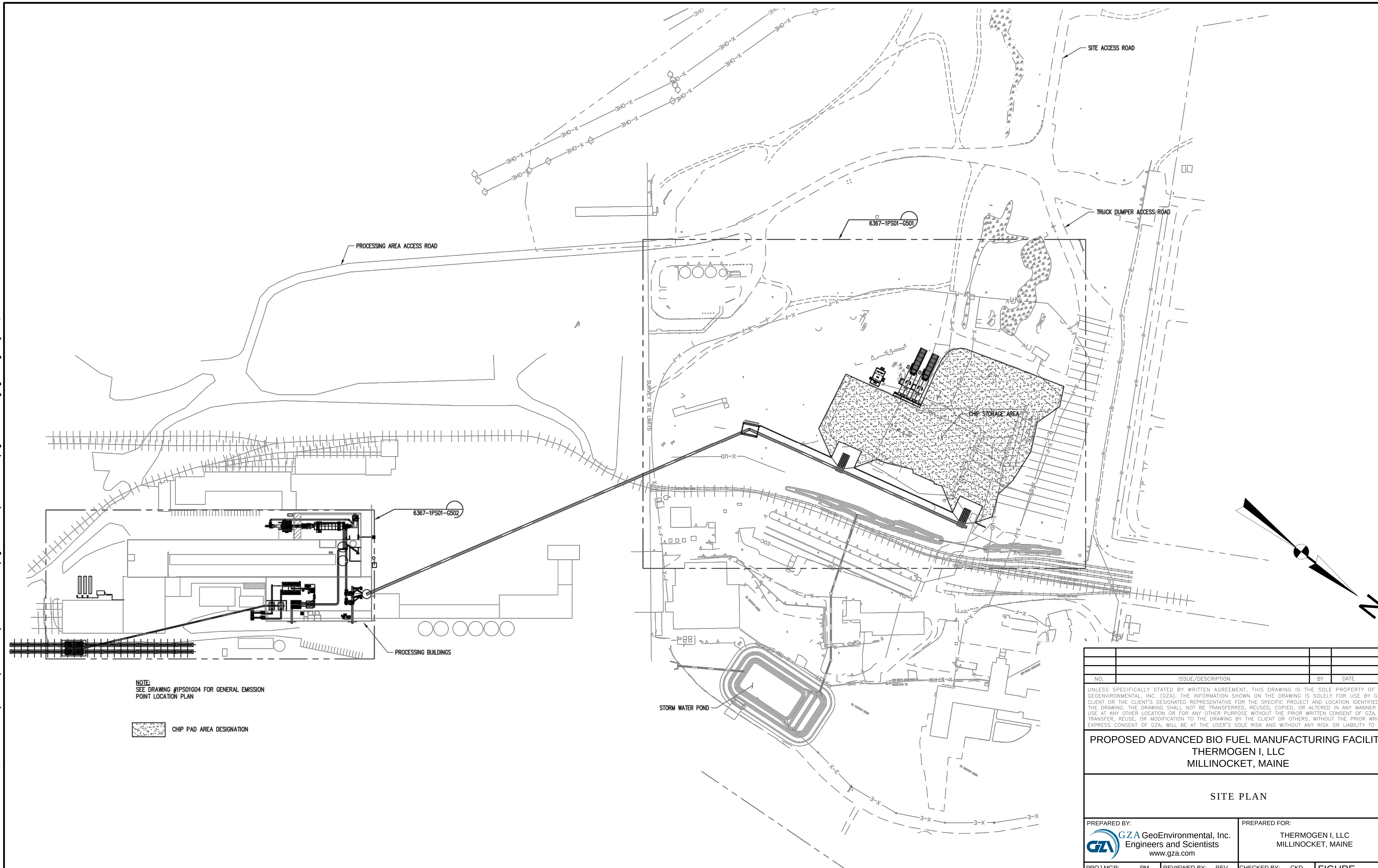
PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

PROJ MGR: PM	REVIEWED BY: REV	CHECKED BY: CKD	FIGURE
DESIGNED BY: DES	DRAWN BY: MR	SCALE: NTS	2
DATE: JUNE, 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 2 OF 7



NOTE:
SEE DRAWING #1PS01G04 FOR GENERAL EMISSION POINT LOCATION PLAN

CHIP PAD AREA DESIGNATION

NO.	ISSUE/DESCRIPTION	BY	DATE

PROPOSED ADVANCED BIO FUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

SITE PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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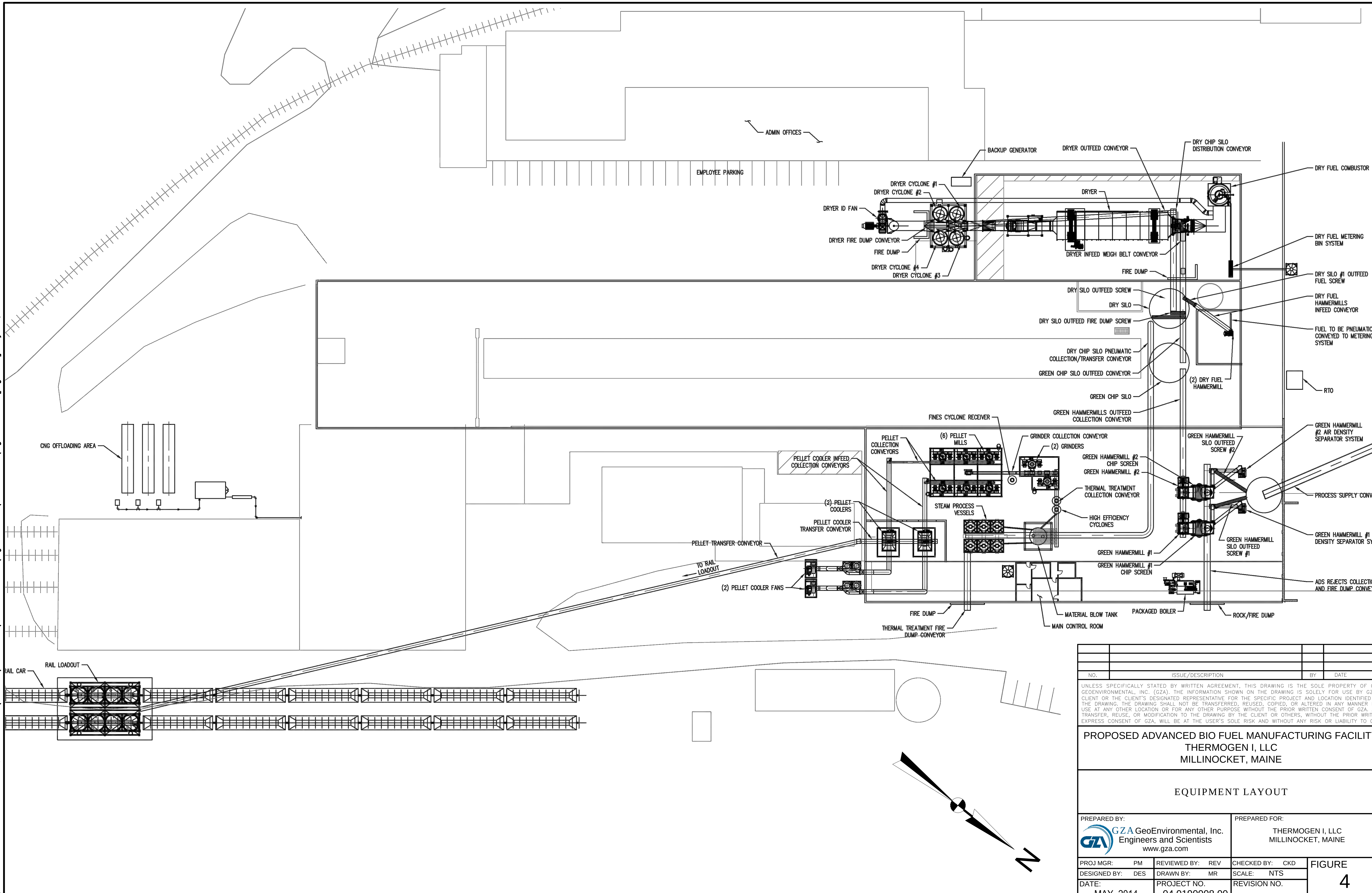
PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

PROJ MGR: PM	REVIEWED BY: REV	CHECKED BY: CKD	FIGURE
DESIGNED BY: DES	DRAWN BY: MR	SCALE: NTS	3
DATE: MAY, 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 3 OF 7



NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

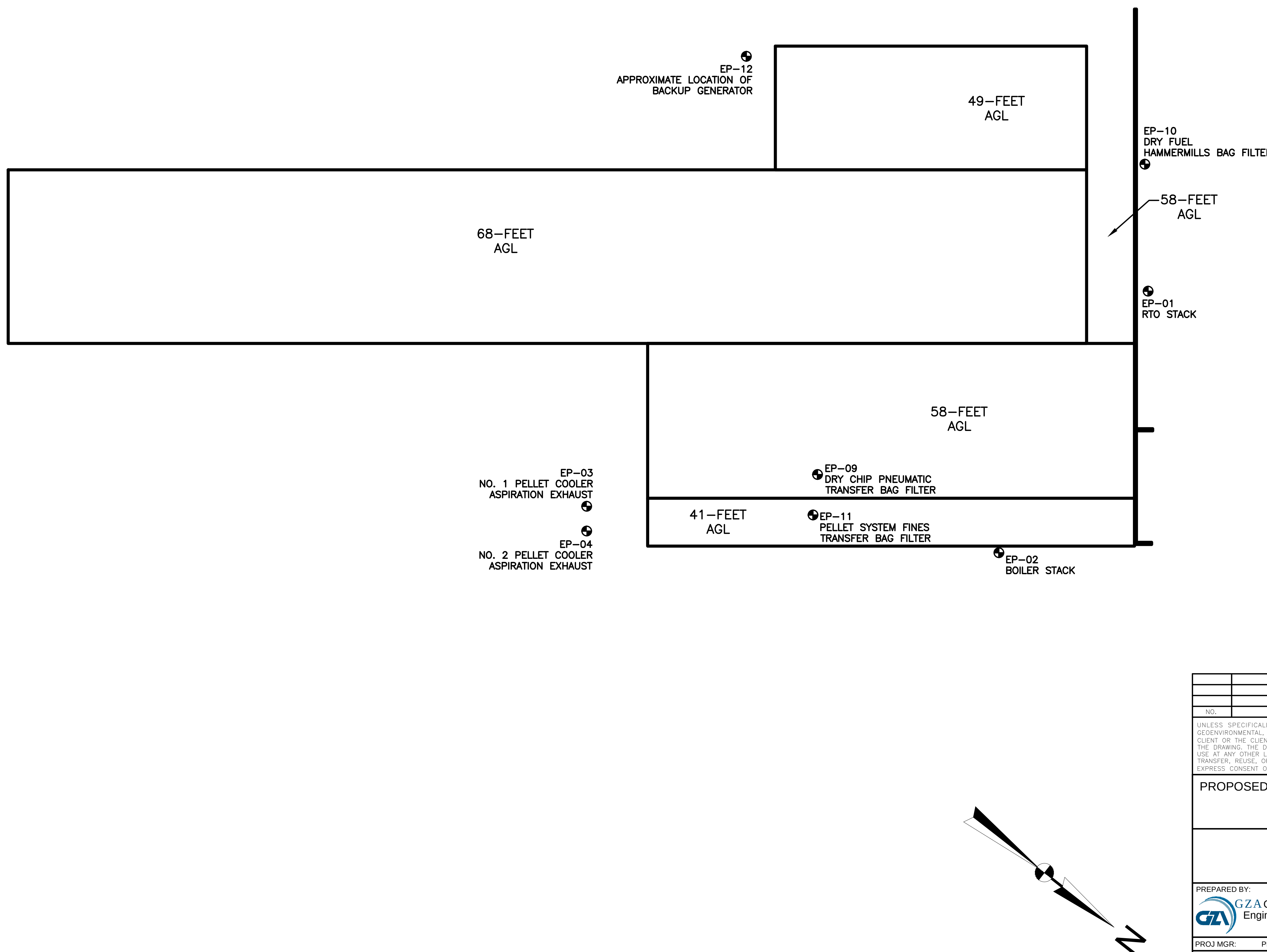
PROPOSED ADVANCED BIO FUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

EQUIPMENT LAYOUT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

PROJ MGR: PM	REVIEWED BY: REV	CHECKED BY: CKD	FIGURE 4
DESIGNED BY: DES	DRAWN BY: MR	SCALE: NTS	
DATE: MAY, 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 4 OF 7



NO.	ISSUE/DESCRIPTION	BY	DATE

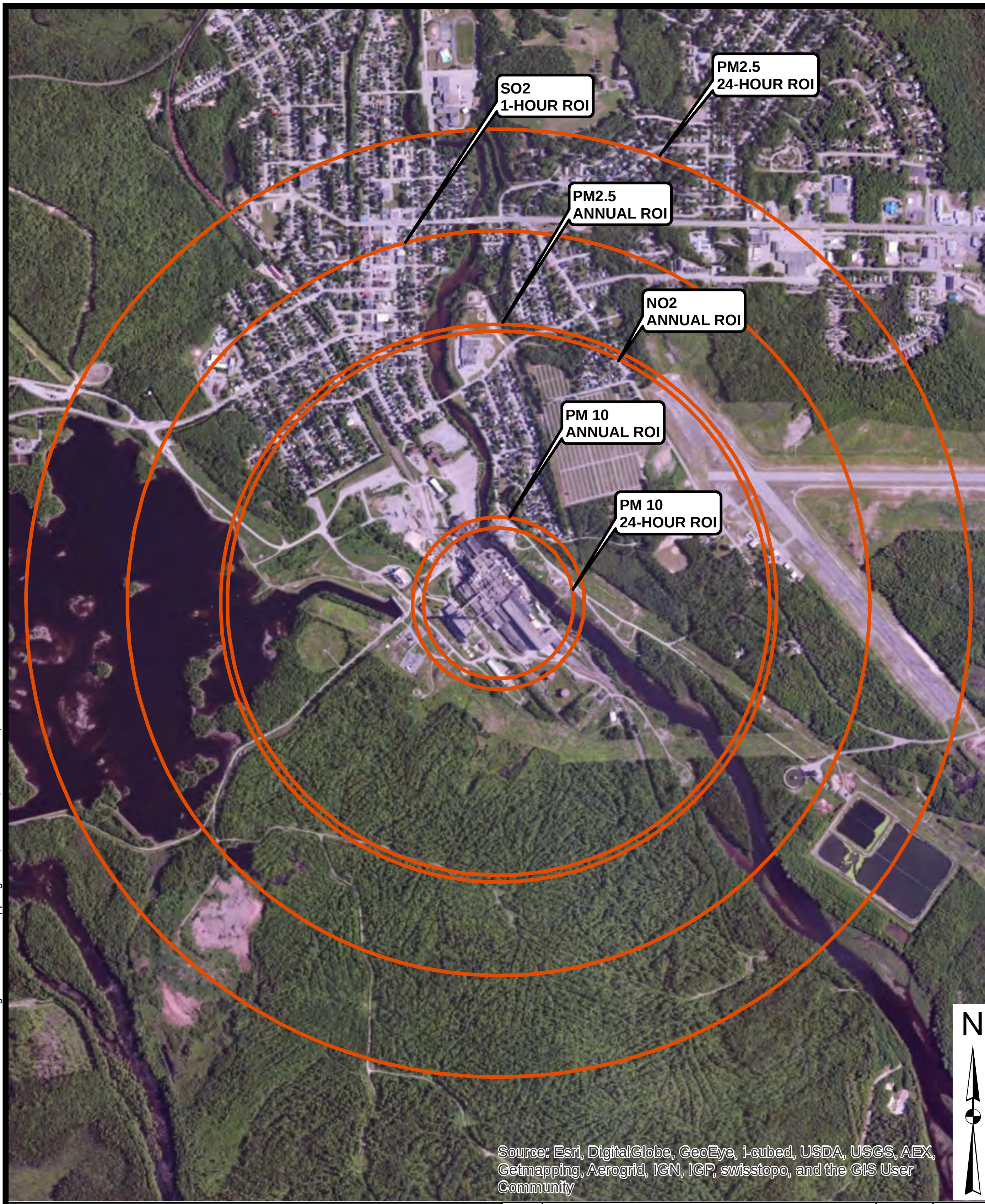
PROPOSED ADVANCED BIO FUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

STACK LOCATION PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

PROJ MGR: PM	REVIEWED BY: REV	CHECKED BY: CKD	FIGURE 5
DESIGNED BY: DES	DRAWN BY: MR	SCALE: NTS	
DATE: MAY, 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 5 OF 7



NO.	ISSUE / DESCRIPTION	BY	DATE

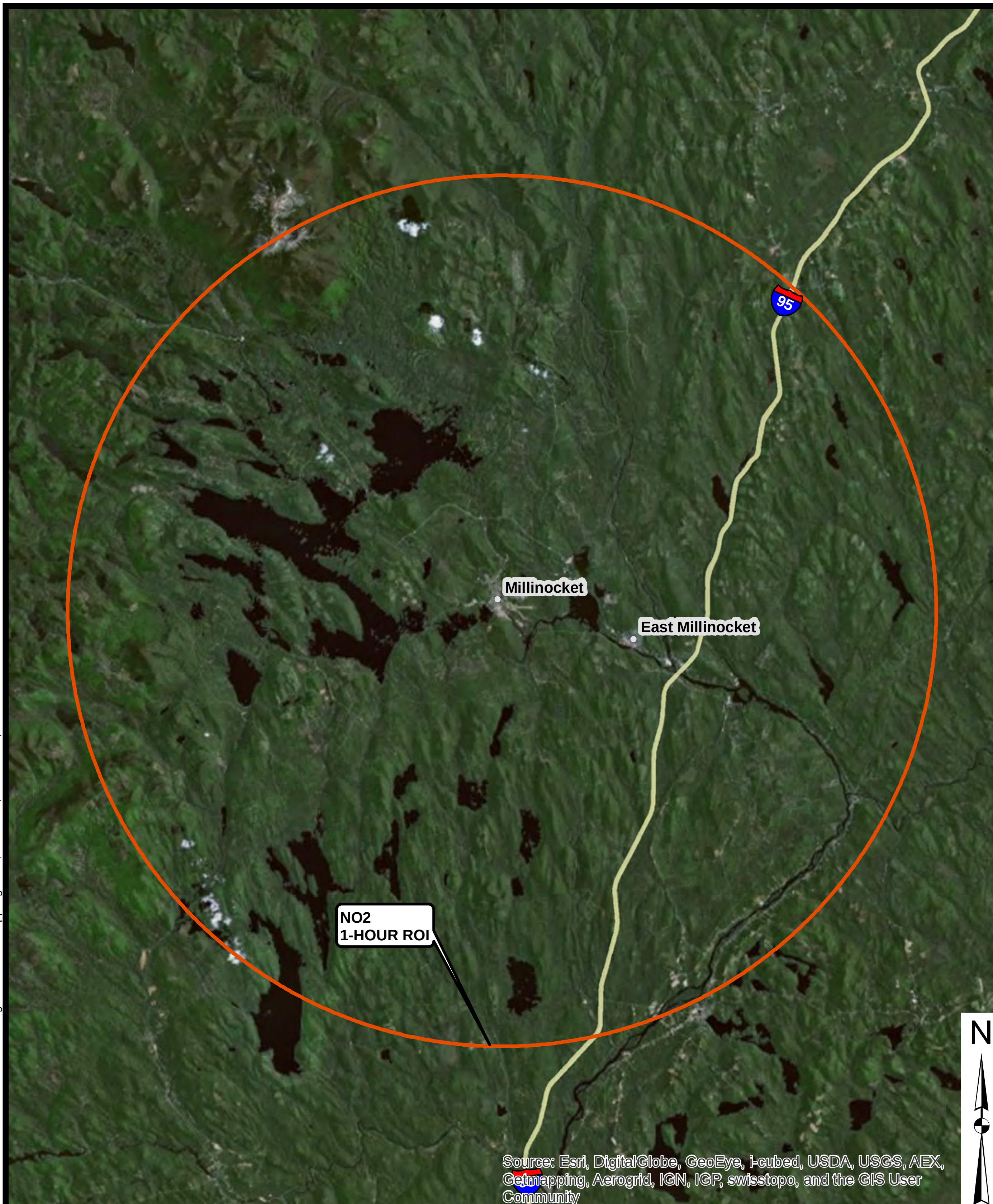
PROPOSED ADVANCED BIOFUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

SIGNIFICANT IMPACT AREAS

PROJ MGR:	MPN	REVIEWED BY:	KDB	CHECKED BY:	FIGURE
DESIGNED BY:	MJD	DRAWN BY:	MJD	SCALE: 1 in = 2,250 ft	6
DATE: MAY 2014		PROJECT NO. 04.0190008.00		REVISION NO.	SHEET NO. 6 OF 7



NO.	ISSUE / DESCRIPTION	BY	DATE

PROPOSED ADVANCED BIOFUEL MANUFACTURING FACILITY
THERMOGEN I, LLC
MILLINOCKET, MAINE

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
THERMOGEN I, LLC
MILLINOCKET, MAINE

SIGNIFICANT IMPACT AREA
FOR NO2 1-HOUR

PROJ MGR: MPN	REVIEWED BY: KDB	CHECKED BY:	FIGURE 7
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE: 1 in = 50,000 ft	
DATE: MAY 2014	PROJECT NO. 04.0190008.00	REVISION NO.	SHEET NO. 7 OF 7

APPENDIX A

APPLICATION FORM AND NOTIFICATION DOCUMENTATION

Form No.	A-L-0006
Effective Date	12/2005
Revision No.	08
Last Revision Date	7/25/13
	Page 1 of 13

CHAPTER 115
AIR EMISSION LICENSE APPLICATION FORM

State of Maine
Department of Environmental Protection
Bureau of Air Quality
17 State House Station
Augusta, Maine 04333-0017
Phone: (207) 287-2437 Fax: (207) 287-7641

Section A: FACILITY INFORMATION

Owner or Operator (*Legal name as registered with the Secretary of State*):
Thermogen I, LLC

Facility Site Name: Millinocket Mill

Facility Site Address (*Physical, no post office boxes*): 1 Katahdin Ave

City/Town: Millinocket Zip Code: 04462 County: Penobscot

Facility Description: Advanced Biofuel manufacturing company

Application Description: Thermogen I, LLC, is proposing to construct and operate one advanced biofuel manufacturing line consisting of a saw dust burner, pellet mill, and a natural gas fired system boiler. The process will produce approximately 330,000 tons of advanced biofuel pellets per year.

Current License #: A- 1072 - 77 - 2 - A

Check When Done:

All Sources

X	Application Completed 6/11/14
X	Copy Sent to Town (date sent: 6/12/14)
X	Public Notice Published paper name & date: *Bangor Daily News May 15, 2014*
X	Enclosed Public Notice Tear Sheet
X	Signed Signatory Form (Section K)

Additional Requirements for New Sources

X	Schedule for construction or installation of equipment
X	Title, Right, or Interest (e.g. copy of deed or lease) **see text**
	Check for Fee N/A

Additional Requirements for New Major Sources and Major Modifications

X	Notify Abutting Landowners

For Department Use

Application #: A- ______ - ______ - ______ - ______

App Track #: ________________

Facility Contact:

Name: Dammon M. Frecker Title: Project Manager
Company: Cate Street Capital, Inc.
Mailing Address: 1 Cate Street

City/Town: Portsmouth State: NH Zip Code: 03801
Phone: (603) 319-4400 Fax: (603) 546-4006
e-mail: dfrecker@catecapital.com

Application Contact:

Name: Michael North Title: Associate Principal
Company: GZA GeoEnvironmental, Inc.
Mailing Address: 380 Harvey Road

City/Town: Manchester State: NH Zip Code: 03103
Phone: (603) 232-8722 Fax: (603) 624-9463
e-mail: michael.north@gza.com

Billing Contact:

Name: Dammon M. Frecker Title: Project Manager
Company: Cate Street Capital, Inc.
Mailing Address: 1 Cate Street

City/Town: Portsmouth State: NH Zip Code: 03801
Phone: (603) 319-4400 Fax: (603) 546-4006
e-mail: dfrecker@catecapital.com

Section B1: STATIONARY FUEL BURNING EQUIPMENT

(List equipment such as boilers, hot water heaters, etc.)

Emission Unit ID	Type of Equipment (boiler, water heater, etc.)	Maximum Design Heat Input	Maximum Firing Rate	Fuel Type	% Sulfur	Date of Manufacture	Date of Installation	Stack #
Boiler #1 (Example)	*asphalt heater (Example)*	*5.0 MMBtu/hr*	*35.7 gal/hr (Example)*	*#2 fuel oil (Example)*	*0.35% (Example)*	*1984 (Example)*	*1990 (Example)*	*#1 (Example)*
	Sawdust Burner	160 MMBtu/hr	8.5 ODT/hr	Dried Sawdust	Negligible	TBD	TBD	EP-01
	Steam Boiler	42.6 MMBtu/hr	35,000 lbs steam/hr	Natural Gas	Negligible	TBD	TBD	EP-02

Section B2: INTERNAL COMBUSTION ENGINES

(List equipment such as generators, diesel drive units, fire pumps, etc. Do not list wheeled mobile equipment such as loaders, backhoes, trucks, etc.)

											Spark Ignition Engines Only			
Emission Unit ID	Type of Equipment (generator, direct drive, fire pump, etc.)	Maximum Design Heat Input Capacity (MMBtu/hr)	Maximum Output Capacity (kW or Hp)	Maximum Firing Rate	Fuel Type	% Sulfur	Date of Manf	Date of Installation	Portable	Stationary	2-Stroke	4-Stroke	Rich Burn	Lean Burn
Generator #1 (Example)	*generator (Example)*	*5.0 MMBtu/hr (Example)*	*512 kW (Example)*	*35.7 gal/hr (Example)*	*Diesel (Example)*	*0.0015% (Example)*	*1984 (Example)*	*1990 (Example)*	*X*			*X*	*X*	
EG Stack	Backup Generator	2.68 MMBtu/hr	250 kW		Diesel	0.0015%	TBD	TBD		X				

Control Equipment for Fuel Burning Equipment

If applicable, indicate the types of required/operated add-on pollution control equipment, including baghouses, cyclones/multiclones, SCR, SNCR, etc.

Emission Unit	Type of Control	Pollutant Controlled	Control Efficiency
Boiler #1 (Example)	*Cyclone (Example)*	*PM (Example)*	*90% (Example)*
Wood Dust Burner	WET ESP and RTO	PM , CO, VOC	PM: 96%, CO: 70% VOC: 97%

Monitors for Fuel Burning Equipment:

If applicable, indicate types of required/operated monitors, including Continuous Emission Monitors (CEM), Continuous Opacity Monitors (COM), parameter monitors for operational purposes, etc.

Emission Unit	Type of Monitor	Data Measured
Boiler #1 (Example)	*CEM (Example)*	*NO_x (Example)*
Boiler #1 (Example)	*Parameter – operational (Example)*	*Temperature (Example)*
RTO and Boiler	Fuel meter	Gas consumption in ft3

Section C: INCINERATORS

	Incinerator Unit 1	Incinerator Unit 2
Incinerator Type (medical waste, municipal, etc.)	**N/A**	
Waste Type		
Make (Shenandoah, Crawford, etc.)		
Model Number		
Date of Manufacture		
Date of Installation		
Number of Chambers		
Max. Initial Charge	lb	lb
Max. Design Combustion Rate	lb/hr	lb/hr
Heat Recovery? (Yes or No)		
Retention Time of Exhaust Gases	seconds	seconds
Automatic Feeder? (Yes or No)		
Temperature Range Primary	to °F	to °F
Secondary	to °F	to °F
Auxiliary Burner - Primary Chamber max. rating (MMBtu/hr)		
type of fuel used		
Auxiliary Burner - Secondary Chamber max. rating (MMBtu/hr)		
type of fuel used		
Annual Waste Combusted for _____(yr)		
Pollution Control Equipment (if any)		
Stack Number		
Monitors (i.e., - temperature recorder)		

Section D: PROCESS EQUIPMENT

Emission Unit ID	Type of Equipment	Maximum Raw Material Process Rate (name and	Maximum Finished Material Process Rate (name and rate)	Date of Manufacture	Date of Installation	Stack #	Control Device
Kilns (Example)	*Drying Kilns (Example)*	*N/A (Example)*	*25 MMBF/year (Example)*	*1990 (Example)*	*1990 (Example)*	*fugitive (Ex.)*	*none (Example)*
PB#1 (Example)	*Paint Booth (Example)*	*10 gal/hr (Example)*	*N/A (Example)*	*2001 (Example*	*2001 (Example)*	*#4 (Ex.)*	*Paper Filters (Example)*
Dryer	Rotary Dryer	458,000 ODT/yr	Advanced Biofuel Pellets 387,805 ODT/yr	TBD	TBD	EP-01	WESP/RTO
Thermal Treatment Island	Thermal Treatment	379,483 ODT/yr		TBD	TBD	EP-01	WESP/RTO
Fuel Hammermill	Hammermill	71,069 ODT/yr		TBD	TBD	EP-10	Baghouse
Pellet System Coolers 1 and 2	Air cooling of pellets	387,805 ODT/yr		TBD	TBD	EP-03 EP-04	High Efficiency Cyclone
Dry Chips Pneumatics	Pneumatics Transfer System	379,483 ODT/yr		TBD	TBD	EP-09	Baghouse
Pellet System Pneumatics	Pellet Mill aspiration	387,805 ODT/yr		TBD	TBD	EP-01	Baghouse
Pellet System Fines Transfer	System Fines Transfer	387,805 ODT/yr		TBD	TBD	EP-11	Baghouse

<u>Solvent Cleaners</u>
(Also known as Parts Washers and/or Solvent Degreasers)

Emission Unit ID	Capacity (gallons)	Solvent Used	Solvent % VOC
Degreaser #1 (Example)	*15 (Example)*	*Kerosene (Example)*	*100% (Example)*
N/A			

PROCESS EQUIPMENT (section D cont'd)

Chemical Usage

Note: Complete this section for any chemicals integral to your process, for example, a cementing process for outersoles, dyes, surface coating, printing, cleaning, etc. Attach additional pages or MSDS sheets as needed.

Process	Chemical substance used in process	Actual Usage (gal or lb for yr ____)	Hazardous chemical(s) in substance	Percent VOC[1] (%)	Percent HAP[2] (%)	Total VOC emitted (lb/year)	Total HAP emitted (lb/year)
N/A							

[1] Volatile Organic Compounds
[2] Hazardous Air Pollutants

Describe method of record keeping (i.e., monthly calculations from purchase records, flow monitors on solvent tanks, etc.)

Monthly records of raw material input and output from mass metering equipment, dryer input, finished product

Describe methods used to calculate VOC/HAP emitted (i.e., – test results, if control equipment was taken into account; if conditions exist where solvents remain in the substrate rather than complete volatilization, etc.)

Vendor data, emission factors, test data from other facilities

Section E: STACK DATA

Stack #	Height Above Ground (ft)	Inside Diameter (ft)	Exit Temperature °F	Exhaust Flow Rate (ft^3/s) [indicate actual or standard]
EP-01	150	7.50	232	3053 (actual)
EP-02	79	2.17	450	220 (actual)
EP-03	89	3.33	110	500 (actual)
EP-04	89	3.33	110	500 (actual)
EP-09	99	1.67	90	116 (actual)
EP-10	79	2.33	100	242 (actual)
EP-11	89	0.67	90	17 (actual)
EP-12	10	0.67	854	37 (actual)

Section F: ANNUAL FACILITY FUEL USE

Total Fuel Consumption by Month for: **N/A** (year)

	Fuel type: ____________	Fuel type: ____________	Fuel type: ____________
	Avg % sulfur (oil) ______	Avg % sulfur (oil) ______	Avg % sulfur (oil)
	Avg % moisture (wood) ______	Avg % moisture (wood) _____	Avg % moisture (wood)
	(circle one: gal, tons, scf)	(circle one: gal, tons, scf)	(circle one: gal, tons, scf)
January	____________	____________	____________
February	____________	____________	____________
March	____________	____________	____________
April	____________	____________	____________
May	____________	____________	____________
June	____________	____________	____________
July	____________	____________	____________
August	____________	____________	____________
September	____________	____________	____________
October	____________	____________	____________
November	____________	____________	____________
December	____________	____________	____________
Total	____________	____________	____________
Proposed Annual Limit	71, 070 tons/yr	380 MMscf/yr	____________

Section G: LIQUID ORGANIC MATERIAL STORAGE

Tank #	**N/A**					
Capacity (gallons)						
Materials Stored						
Reid Vapor Pressure (RVP)						
Annual Throughput						
Above or Below Ground?						
Tank Type (floating or fixed, riveted or bolted, etc.)						
Physical Description – year installed						
Physical Description – color						
Dimensions - height (ft)						
Dimensions - Diameter (ft)						
Construction Material						
Control Device						

Section H: MISCELLANEOUS

Note: Use this section to describe any equipment, activities, or other air emission sources that did not fit in any of the above categories. Include descriptions of the associated emissions. Attach additional pages if necessary.

Section I: BPT/BACT AND OTHER ATTACHMENTS

BPT/BACT Analysis:

For a license renewal for existing equipment, the applicant is required to submit a Best Practical Treatment (BPT) analysis to the Department. A BPT analysis establishes what equipment or requirements are appropriate for control or reduction of emissions of regulated pollutants to the lowest possible level considering the existing state of technology, the effectiveness of available alternatives, and the economic feasibility.

For a new license or the addition of new equipment to an existing license, the applicant is required to submit a Best Available Control Technology (BACT) analysis. A BACT analysis is a top-down approach to selecting air emission controls. It is done on a case-by-case basis and develops emission limits based on the maximum degree of reduction for each pollutant emitted taking into account economic, environmental and energy impacts.

☐ I certify that, to the best of my knowledge, the control equipment, fuel limitations, and process constraints outlined in this application represent BPT / BACT for the equipment and processes listed.

OR

☐ **X** I have attached a separate BPT / BACT analysis to this application.

Other Attachments:

Please list any other attachments included with this application.

____

____

____

____

____

____

____

Section J: APPLICABLE RULES

Please indicate any rules you believe may be applicable to your facility by checking the associated box.

	Citation	Title
x	06-096 CMR 101	Visible Emissions
x	06-096 CMR 103	Fuel Burning Equipment Particulate Emission Standard
	06-096 CMR 104	Incinerator Particulate Emission Standard
x	06-096 CMR 105	General Process Source particulate Emission Standard
	06-096 CMR 106	Low Sulfur Fuel Regulation
	06-096 CMR 111	Petroleum Liquid Storage Vapor Control
	06-096 CMR 112	Bulk Terminal Petroleum Liquid Transfer Requirements
	06-096 CMR 117	Source Surveillance
	06-096 CMR 118	Gasoline Dispensing Facilities Vapor Control
	06-096 CMR 121	Emission Limitations and Emission Testing of Resource Recovery Facilities
	06-096 CMR 123	Paper Coating Regulation
	06-096 CMR 124	Total Reduced Sulfur Control from Kraft Mills
	06-096 CMR 125	Perchloroethylene Dry Cleaner Regulation
	06-096 CMR 126	Capture Efficiency Test Procedures
	06-096 CMR 129	Surface Coating Facilities
	06-096 CMR 130	Solvent Degreasers
	06-096 CMR 131	Cutback Asphalt and Emulsified Asphalt
	06-096 CMR 132	Graphic Arts – Rotogravure and Flexography
	06-096 CMR 133	Petroleum Liquids Transfer Vapor Recovery at Bulk Gasoline Plants
	06-096 CMR 134	Reasonably Available Control Technology for Facilities That Emit Volatile Organic Compounds
x	06-096 CMR 137	Emission Statements
	06-096 CMR 138	Reasonably Available Control Technology for Facilities That Emit Nitrogen Oxides
x	06-096 CMR 140	Part 70 Air Emission License Regulations
	06-096 CMR 145	NOx Control Program
	06-096 CMR 153	Mobile Equipment Repair and Refinishing
	06-096 CMR 159	Control of Volatile Organic Compounds from Adhesives and Sealants
	06-096 CMR 161	Graphic Arts – Offset Lithography and Letterpress Printing
x	40 CFR Part 60	New Source Performance Standards (NSPS) (please list Subpart(s): **See text**)
x	40 CFR Part 63	National Emission Standards for Hazardous Air Pollutants (NESHAP) (please list Subpart(s): **See text**)
	Other (list)	
	Other (list)	

Section K: SIGNATORY REQUIREMENT

Each application submitted to the Department must include the following certification signed by a Responsible Official*:

"I certify under penalty of law that, based on information and belief formed after reasonable inquiry, I believe the information included in the attached document is true, complete, and accurate."

[signature]	6/12/14
Responsible Official Signature	Date
Robert Demosier	Director
Responsible Official (Printed or Typed)	Title

* A Responsible Official is defined by MEDEP Rule, Chapter 100 as:

A. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

(1) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars); or

(2) The delegation of authority to such representatives is approved in advance by the permitting authority;

B. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

C. For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA).

Legal Notices

MAINE TURNPIKE AUTHORITY
NOTICE TO CONTRACTORS

Sealed Proposals will be received by the MTA for **Contract 2014.16, Wearing Surface Replacement and Substructure Rehabilitation York River Bridges and Web Stiffener Rehabilitation Cutts Road Bridge**, at 2360 Congress Street, Portland, ME 04102, until 11:00 a.m. on April 17, 2014. Bids will be accepted from Contractors pre-qualified by the Maine DOT for Bridge Construction Projects. All other bids may be rejected.

Please visit our website at http://www.maineturnpike.com/project-and-planning/Construction-Contracts.aspx for information regarding the Contract, Schedule of Items, and plan holders list.

Nathaniel F. Carll
Purchasing Manager

March 27, April 3, 2014

Legal Notices

CLOSED BIDS
Unit 1R - K Nylund,
Unit 2F - R & M McFarlin,
Unit 2O - R & M McFarlin,
Unit 3M - B Hatch
Viewing 2-3 pm on April 23rd.
Bids accepted until 3:30 pm.
Parkway Warehousing & Storage,
33 Stevens Road, Brewer, ME

April 3, 10, 2014

BMW 2008 Z4 CONVERTIBLE One owner, dealer serviced, Premium, Sport Pkg, wood trim, htd leather pwr seats, top 18 inch whls, fog lamps, CD player, traction control, blue tooth, cruise, keyless entry, paddles, CARFAX, 32k miles, excellent. $24,500 or offer. 207-631-4976

BUICK 2003 CENTURY excellent shape, ready for sticker, 132k miles, asking $2500 or best offer. Call 478-9040.

BUICK ROADMASTER 1940- 4 door. All complete, except radio. Licensed and insur. to drive. Needs some TLC. $7000. 416-7017 207-416-7017

CHEV 1978 CORVETTE - 25th Anniversary, 350 auto, black w/red interior, T-top & 1 pc. glass top, 2 sets of wheels, exc. cond. Asking $12,500. 843-0445

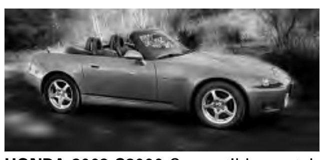
CHEVROLET 1982 CORVETTE Brand new GM 350 crate! All new parts inside and out, too many to list! May need minor paint. Call 695-2267 for info.

CHEVROLET 2008 IMPALA
Finance w/dwnpmnt & $50/wk w/2yr warranty, AT, 4Dr, New Legal Sticker
Gerry's Used Cars 990-2206

CHEVY CORVETTE-
1962, 327 C.I., 4 spd, orig., new paint, silver on black, runs great! Garaged. Ragtop (fair). Reduced $47,000, great investment. 951-6451

FORD 1998 CONTOUR LX 4-door, Sedan, Beige/Blue, 6-cylinder, Manual, 2WD, 132,000 Mi, Good condition. By Owner, 98 Ford Contour 6cyl. man. trans $1,200 207-329-3609

HONDA 2001 CIVIC
$1500 Down, $50wk w/2yr warranty. AT, 2Dr, New Legal Sticker.
Gerry's Used Cars 990-2206



HONDA 2003 S2000 Convertible, metallic blue ext., dark blue interior, 57K miles, 6 speed, leather, a/c. Asking $17,900. Call 207-866-3754 Ask for Don

HONDA CIVIC VP 2010 5spd, A/C, power windows, snow tires, well maintained, 45k miles, $11,500 (below book value). Call 991-7299

KIA 03 SPECTRA 93k mi., blue, 38 mpg. New tires/sticker. 5 spd. No rust. $3400
Anson Motor located on Main St, Newport, ME. Call 355-1421

LINCOLN 1977 MARK V
Mint Cartier Series. 39000 mi. One owner. 460 V8. All power options. garaged. $11,000.
772-546-0427 jpdono@att.net

LINCOLN TOWN CAR
loaded, every option available that year, newer tires & brakes, **REDUCED TO $6490.**
Call 356-5117

NISSAN 350 Z 35TH ANNIVERSARY EDITION -2005
Automatic, ultra yellow, exc shape, 21,000 miles. Loaded, upgraded sound system w/Sirius radio, Navigation system, TSW wheels w/19" Hankook tires, Bembro brakes. Looks great and a blast to drive. $15,000 207-427-6659 aslefinger@roadrunner.com

PONTIAC 2004 GRAND PRIX
Finance w/dwnpmnt & $50/wk w/2yr warranty. AT, 4dr, New Legal Sticker.
Gerry's Used Cars 990-2206

SATURN 2001 SL No rust. New muffler, exhaust, front break pads, rotors, ball joint, sticker. 212k mi. runs great. $1800.
Anson Motor located on Main St, Newport, ME. Call 355-1421.

Legal Notices

INVITATION TO BID
for
Airport Improvements

To Include: **"Replacement of R/W 15-33 Edge Lighting (Base Bid) and Replacement of Electrical Vault (Additive Bid Item)" at the Princeton Municipal Airport, Princeton, Maine".**

Sealed bids for Airport Improvements at the Princeton Municipal Airport will be received by the **Town Clerk at the Princeton Town Office at 15 Depot Street, Princeton, Maine 04668**, on **Thursday, April 24, 2014, at 1:00 p.m.** local time, at which time and place all bids will be publicly opened and read aloud. Bids submitted after this time will not be accepted. Bids must be submitted in a sealed envelope clearly marked **"Airport Improvements, "Replacement of R/W 15-33 Edge Lighting (Base Bid) and Replacement of Electrical Vault (Additive Bid Item)"at the Princeton Municipal Airport, Princeton, Maine, AIP Project No. 3-23-0040-06-2014."**

The proposed work may include, but is not necessarily limited to: Runway lighting and cabling, pavement markings, topsoiling, seed, mulching and incidental related work.

Prospective bidders are strongly encouraged to attend a pre-bid project information meeting scheduled for **Thursday, April 10, 2014 at 1:00 p.m.** local time at the Princeton Town Office located at 15 Depot Street, Princeton, Maine.

Drawings, Specifications, and Contract Documents may be examined at:
Town of Princeton, 15 Depot Street, Princeton, Maine 04668;
Construction Summary of Maine, 74 Gilman Road, Bangor, Maine 04401;
Associated Constructors of Maine, 188 Whitten Road, Augusta, Maine 04332;
Construction Summary of Maine, 2331 Congress Street, Portland, Maine 04102

Copies of the above documents may be obtained from the office of Stantec Consulting Services Inc., by e-mailing Stantec at julie.dicker@stantec.com for an electronic copy, at no charge, or a CD for a non-refundable fee of Thirty-Dollars ($30.00) per CD, including postage & handling, or a hardcopy for a non-refundable fee of One Hundred Dollars ($100.00) per set, including postage and handling. CD's and hardcopies will be mailed upon receipt of payment. **ALL CHECKS SHALL BE MADE PAYABLE TO THE "PRINCETON REGIONAL AIRPORT AUTHORITY"**, and forwarded to Stantec Consulting Services Inc., at 154 Development Drive, Suite C, Limestone, Maine 04750. Partial sets, separate drawings or individual sections of the documents will not be distributed.

Bid security in the amount of at least five percent (5%) of the total bid must be submitted with the Bid. The bid security may be either a certified check or a proposal guaranty bond executed by a surety company authorized to do business in the State of Maine. Bid security shall be made payable to the Princeton Regional Airport Authority. Late bids, unsigned bids, facsimile bids, or bids submitted without security will not be considered.

The successful bidder must furnish a 100 percent Performance Bond, and a 100 percent Labor and Materials Payment Bond, and begin execution of this contract within five (5) calendar days following the Notice to Proceed.

Construction under this contract will be funded by Federal Grant under the Airport Improvement Program (AIP) and will be subject to all applicable requirements of the U.S. Department of Transportation / Federal Aviation Administration and the Maine Department of Transportation. Award of all contracts will be contingent upon receipt of Federal funding under the AIP.

Wages paid to employees must comply with the minimum established by U.S. Department of labor Wage Determination and CH 149, § 26-27D, M.G.L. The contractor must comply with the Davis-Bacon Act, Anti-Kickback Act, the Occupational Safety and Health Act, the Contract Work Hours and Safety Standard Act, Title VI of the Civil Rights Act of 1964 and Executive Order 11246.

The Princeton Regional Airport Authority has an approved Disadvantaged Business Enterprise (DBE) program for Airport Improvement projects which the successful bidder must comply with, the specific goals for this job being listed within the contract documents.

The Princeton Regional Airport Authority reserves the right to reject any and all proposals, to waive any technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the Princeton Regional Airport Authority.

By:
PRINCETON REGIONAL AIRPORT AUTHORITY

Mr. David Herrick
Town Clerk

Published April 3, 2014

Legal Notices

INVITATION TO BID
for
Airport Improvements

To Include: **"Installation of Automated Weather Observation System (AWOS)" at the Eastport Municipal Airport, Eastport, Maine."**

Sealed bids for Airport Improvements at the Eastport Municipal Airport will be received by the **City Clerk at the Eastport City Hall at 78 High Street, Eastport, Maine 04631**, on **Thursday, April 24, 2014 at 10:00 a.m.** local time, at which time and place all bids will be publicly opened and read aloud. Bids submitted after this time will not be accepted. Bids must be submitted in a sealed envelope clearly marked **"Installation of Automated Weather Observation System (AWOS)" at the Eastport Municipal Airport, Eastport, Maine, AIP Project No. 3-23-0053-12-2014".**

The proposed work may include, but is not necessarily limited to: Construction and preparation for installation of AWOS equipment, trenching and electrical cabling, minor tree clearing and other incidental related work.

Prospective bidders are strongly encouraged to attend a pre-bid project information meeting scheduled for **Thursday, April 10, 2014, 10:00 a.m.** local time at the Eastport City Office located at 78 High Street, Eastport, Maine 04631.

Drawings, Specifications, and Contract Documents may be examined at:

Eastport City Hall, 78 High Street, Eastport, Maine 04631;
Construction Summary of Maine, 74 Gilman Road, Bangor, Maine 04401;
Associated Constructors of Maine, 188 Whitten Road, Augusta, Maine 04332;
Construction Summary of Maine, 2331 Congress Street, Portland, Maine 04102

Copies of the above documents may be obtained from the office of Stantec Consulting Services Inc., by e-mailing Stantec at julie.dicker@stantec.com for an electronic copy, at no charge, or a CD for a non-refundable fee of Thirty-Dollars ($30.00) per CD, including postage & handling, or a hardcopy for a non-refundable fee of One Hundred Dollars ($100.00) per set, including postage and handling. CD's and hardcopies will be mailed upon receipt of payment. **ALL CHECKS SHALL BE MADE PAYABLE TO THE "CITY OF EASTPORT"**, and forwarded to Stantec Consulting Services Inc., at 154 Development Drive, Suite C, Limestone, Maine 04750. Partial sets, separate drawings or individual sections of the documents will not be distributed.

Bid security in the amount of at least five percent (5%) of the total bid must be submitted with the Bid. The bid security may be either a certified check or a proposal guaranty bond executed by a surety company authorized to do business in the State of Maine. Bid security shall be made payable to the City of Eastport. Late bids, unsigned bids, facsimile bids, or bids submitted without security will not be considered.

The successful bidder must furnish a 100 percent Maintenance Bond, a 100 Percent Performance Bond, and a 100 percent Labor and Materials Payment Bond, and begin execution of this contract within five (5) calendar days following the Notice to Proceed.

Construction under this contract will be funded by Federal Grant under the Airport Improvement Program (AIP) and will be subject to all applicable requirements of the U.S. Department of Transportation / Federal Aviation Administration and the Maine Department of Transportation. Award of all contracts will be contingent upon receipt of Federal funding under the AIP.
Wages paid to employees must comply with the minimum established by U.S. Department of labor Wage Determination and CH 149, § 26-27D, M.G.L. The contractor must comply with the Davis-Bacon Act, Anti-Kickback Act, the Occupational Safety and Health Act, the Contract Work Hours and Safety Standard Act, Title VI of the Civil Rights Act of 1964 and Executive Order 11246.

The City of Eastport has an approved Disadvantaged Business Enterprise (DBE) program for Airport Improvement projects which the successful bidder must comply with, the specific goals for this job being listed within the contract documents.

The City of Eastport reserves the right to reject any and all proposals, to waive any technical or legal deficiencies, and to accept any bid that it may deem to be in the best interest of the City of Eastport and the Eastport Municipal Airport.

By:
CITY OF EASTPORT, MAINE

Mr. Larry Post
City Manager

Published April 3, 2014

SATURN AURA 07 V6 AT 4DR 125K
EASY CREDIT! YOU ARE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
Rt1A, 2mi fr/Brewer WalMart 989-6777

SUBARU 2008 OUTBACK 2.5 I 4-door, Wagon, Gold/Gold, 4-cylinder, Manual, AWD, 124,000 Mi, Excellent condition. By Owner, New brakes, front cvc joints, rear bearings. Trailer hitch. One owner, one driver. $8,500 207-862-4441

TOYOTA 1998 CAMRY LE sunroof, runs great, 193k miles, stickered, $2500 or best offer. Call 478-9040.

TOYOTA 2007 COROLLA LE Platinum Sedan, Exc. condition, 4 cyl, Auto., 36 mpg, 98K, $12,000 firm. Steuben. hanson.larch@gmail.com

TOYOTA 2012 CAMRY SE 23,500 Mi, original owner, dealer serviced. Garage kept, like new condition. 33.5-35 mpg. $18,500 207-853-4228

Vans/Minivans 370

CHEVROLET 2009 EXPRESS VAN 2500 SERIES - White, 4.8 engine, 74k miles, new tires, excellent condition. $9600. Bangor, call 570-6200.

DODGE - 2000 FLORIDA Grand Caravan 165k mostly hwy All power, zero rust, very nice, needs brakes. Exc. financing avail. Reduced to $2,500. for Pictures 226-7540, 877-566-6686, ID #107295

DODGE 2006 CARAVAN
Finance w/dwnpmnt & $50/wk w/2yr warranty, AT, 4DR, New Legal Sticker
Gerry's Used Cars 990-2206

FORD 2002 E350 WORK VAN
63,000 miles, new motor, good rubber, radio, cruise, air. Excellent shape. $6,500. Call 255-0927 evenings.

KIA 2011 SEDONA New tires, 54,000 miles, gray int/ext., quad seats, PW, PDL, good cond., Fla van. $14,500 or best offer. 207-462-7424

Motorcycles/Mopeds 375

BIG DOG 2004 CHOPPER Show Bike with low mileage, one owner, **REDUCED TO $12,500** or trade for hot rod. Call Dana at 207-227-4160

HARLEY DAVIDSON 2007 FXDB Street Bob, kobalt blue, lots of extras, 455 miles. $11,000 Or Best Offer 290-1250

HONDA CX500 - 1981, low miles, excellent condition, $1,600, or best offer. Call 862-4178

TOW-BEHIND TRAILER - 1997 Hannigan, cargo body type, Trans-Sport model, GVW 500 lbs., attaches behind bike. $1,700. Located in Belmont. 342-2315.

TRIUMPH 2005 BONNEVILLE AMERICA 650 CC - 1,962 Mi, excellent cond. Extras inc. $4,500. 207-944-3886

Sport Utility 380

Legal Notices

UNITED STATES BANKRUPTCY COURT
DISTRICT OF MAINE

In re:	
MONTREAL MAINE & ATLANTIC RAILWAY, LTD.	Bk. No. 13-10670 Chapter 11
Debtor.	

NOTICE OF ENTRY OF BAR DATE ORDER ESTABLISHING DEADLINE FOR FILING PROOFS OF CLAIM ASSERTING CLAIMS AGAINST MONTREAL, MAINE & ATLANTIC RAILWAY, LTD.

PLEASE TAKE NOTICE THAT:

The United States Bankruptcy Court for the District of Maine (the "Bankruptcy Court") has entered an Order (the "Bar Date Order") establishing **June 13, 2014 at 5:00 p.m. (EST)** (the "Bar Date") as the last date and time for each person or entity (including, without limitation, individuals, partnerships, corporations, joint ventures, trusts, and governmental units (as defined in section 101(27) of the Bankruptcy Code) to file a proof of claim ("Proof of Claim") based on prepetition claims against Montreal, Maine & Atlantic Railway, Ltd. ("MMA").

The Bar Date Order, the Bar Date, and the procedures set forth below for filing the Proofs of Claim apply to all claims against MMA, including, but not limited to, claims arising out of or related to the July 6, 2013 train derailment (the "Derailment") in Lac-Mégantic, Québec whether or not asserted under 11 U.S.C. § 1171, and including, without limitation, claims for wrongful death, personal injury, property damage, environmental damage, contamination and clean-up and contribution and/or indemnity claims of third parties sued by victims of the Derailment for claims or causes of action arising out of or related to the Derailment (collectively, the "Derailment Claims"), that arose prior to August 7, 2013 (the "Petition Date"), the date on which MMA commenced its case under chapter 11 of the Bankruptcy Code, **PROVIDED, HOWEVER, THAT DERAILMENT CLAIMS MAY BE FILED IN THIS CHAPTER 11 CASE AND/OR IN THE CASE FILED BY MONTREAL MAINE & ATLANTIC CANADA, CO. ("MMA Canada") UNDER CANADA'S COMPANIES' CREDITORS ARRANGEMENT ACT (the "Canadian Case"). IF YOU ARE THE HOLDER OF A DERAILMENT CLAIM YOU HAVE THE OPTION OF FILING YOUR CLAIM SOLELY IN THE CANADIAN CASE AND DERAILMENT CLAIMS FILED SOLELY IN THE CANADIAN CASE AND ALSO ASSERTING A CLAIM AGAINST MMA (AS STATED ON THE CLAIM FORM OR A SCHEDULE THERETO) SHALL BE DEEMED FILED IN THIS CASE ON THE BAR DATE SUCH CLAIMS ARE FILED IN THE CANADIAN CASE. PLEASE NOTE THAT HOLDERS OF DERAILMENT CLAIMS ARE NOT REQUIRED TO FILE CLAIMS IN THE CANADIAN CASE IF SUCH HOLDERS ONLY ASSERT CLAIMS AGAINST MMA; DERAILMENT CLAIMS ASSERTED AGAINST MMA ONLY AND NOT ALSO AGAINST MMA CANADA MAY BE FILED SOLELY IN THIS CHAPTER 11 CASE. Class claims may not be filed in this Chapter 11 case without prior leave of the Bankruptcy Court upon appropriate motion of the claimant, and no class claim will be deemed filed in this chapter 11 case without such prior leave of the Bankruptcy Court.**

If you have any questions relating to this Notice, please feel free to contact Angela L. Stewart at (207) 774-1200 or via e-mail at astewart@bernsteinshur.com.

YOU SHOULD CONSULT AN ATTORNEY IF YOU HAVE ANY QUESTIONS, INCLUDING WHETHER YOU SHOULD FILE A PROOF OF CLAIM.

1 WHO MUST FILE A PROOF OF CLAIM

You **MUST** file a **Proof of Claim** to vote on a chapter 11 plan or plans filed by MMA, to share in any distributions from MMA's estate, and to avoid having your claim discharged, if you have a claim that arose prior to **August 7, 2013** and it is not one of the types of claims described in Section 2 below. Claims based on acts or omissions of MMA that occurred before **August 7, 2013** must be filed on or prior to the Bar Date, even if such claims are not now fixed, liquidated, or certain or did not mature or become fixed, liquidated, or certain before **August 7, 2013**.

Pursuant to section 101(5) of the Bankruptcy Code and as used in this Notice, the word **"claim"** means: (a) a right to payment, whether or not such right is reduced to judgment, liquidated, unliquidated, fixed, contingent, matured, unmatured, disputed, undisputed, legal, equitable, secured, or unsecured; or (b) a right to an equitable remedy for breach of performance if such breach gives rise to a right to payment, whether or not such right to an equitable remedy is reduced to judgment, fixed, contingent, matured, unmatured, disputed, undisputed, secured, or unsecured. Further, claims include unsecured claims, secured claims, and priority claims, including claims under 11 U.S.C. § 1171.

2. WHO NEED NOT FILE A PROOF OF CLAIM

You need not file a Proof of Claim if:

a. Your claim is listed on MMA's schedules, provided that (i) the claim is not listed on MMA's schedules as "disputed," "contingent," or "unliquidated," (ii) you do not dispute the amount, nature, and priority of the claim as set forth in MMA's schedules, and (iii) you do not dispute that the claim is an obligation of MMA;

b. Your claim has been paid in full;

c. You hold a claim allowable under sections 503(b) and 507(a)(2) of the Bankruptcy Code as an administrative expense, other than a claim arising under 11 U.S.C. § 503(b)(9) or 11 U.S.C. § 1171 (although Derailment Claims may be filed only in the Canadian Case, as stated above);

d. You hold a claim that heretofore has been allowed by Order of this Court entered on or before the Bar Date;

e. You hold a claim for which a separate deadline has been fixed by this Court; or

f. You are the holder of a Derailment Claim and you have already filed a Proof of Claim against MMA and MMA Canada in the Canadian Case in accordance with the procedures established in the Canadian Case, including, without limitation, by indicating on the relevant form(s) used in the Canadian Case that you assert a claim against MMA.

YOU SHOULD NOT FILE A PROOF OF CLAIM IN THIS CHAPTER 11 CASE (OR INDICATE A CLAIM AGAINST MMA ON THE FORM USED IN THE CANADIAN CASE) IF YOU DO NOT HAVE A CLAIM AGAINST MMA. THE FACT THAT YOU RECEIVED THIS NOTICE DOES NOT MEAN THAT YOU HAVE A CLAIM OR THAT MMA OR THE CHAPTER 11 TRUSTEE APPOINTED IN THIS CASE BELIEVE THAT YOU HAVE A CLAIM.

3. WHEN AND WHERE TO FILE

All Proofs of Claim must be filed so as to be **actually received** on or before the applicable Bar Date via CM/ECF or via regular mail at the following address:

United States Bankruptcy Court, District of Maine
c/o Alec Leddy, Clerk
202 Harlow Street
Bangor, ME 04401

Proofs of Claim will be deemed timely filed only if actually received by the Bankruptcy Court on or before the Bar Date. Proofs of Claim may not be delivered by facsimile, telecopy, or electronic mail transmission (other than via the Court's electronic CM/ECF filing system).

A holder of a Derailment Claim against both MMA (the Debtor in this case) and MMA Canada (the Debtor in the Canadian Case) may file a Derailment Claim both in this case and in the Canadian Case by submitting the CCAA Derailment Claim Form as directed in the Canadian Case and indicating on that Form (by checking the appropriate box that appears on the CCAA Derailment Claim Form) that the derailment claim is being asserted against MMA as well as MMA Canada. **By submitting the CCAA Derailment Claim Form (with the appropriate box checked to state a claim against MMA) in the Canadian Case before the Bar Date, the holder will be deemed to have timely filed its Derailment Claim against MMA in this chapter 11 case and is not required to submit a Proof of Claim in this case.** ***By checking the box to assert a claim against MMA on the CCAA Derailment Claim Form, however, a claimant shall be deemed to have submitted to this Court's jurisdiction with respect to the allowance of his/her/its claims against MMA and related matters. A claimant who files a CCAA Derailment Claim Form but fails to check the box indicating his/her/its intention to assert a Derailment Claim against MMA and fails to file a Proof of Claim in this Case shall be forever barred from asserting such Derailment Claim against MMA.***

4. WHAT TO FILE

If you file a Proof of Claim in this case, your filed Proof of Claim must: (i) be written in the English language (although Derailment Claims may be filed in French or English in the Canadian Case); (ii) be denominated in lawful currency of the United States as of the Petition Date (using the exchange rate, if applicable, as of the Petition Date), although Derailment Claims may be filed in Canadian dollars in the Canadian Case; (iii) conform substantially to Official Bankruptcy Form No. 10; (iv) set forth with specificity the legal and factual basis for the alleged claim; (v) include supporting documentation for the claim or an explanation as to why such documentation is not available; and (vi) be signed by the claimant or, if the claimant is not an individual, by an authorized agent of the claimant**. (Derailment Claims filed solely in the Canadian Case may be filed in French or English and must be filed in accordance with procedures established in the Canadian Case.)**

YOU SHOULD ATTACH TO YOUR COMPLETED PROOF OF CLAIM FORM COPIES OF ANY WRITINGS UPON WHICH YOUR CLAIM IS BASED. IF THE DOCUMENTS ARE VOLUMINOUS, YOU SHOULD ATTACH A SUMMARY.

5. EXECUTORY CONTRACTS AND UNEXPIRED LEASES

Any person or entity that holds a claim arising from the rejection of an executory contract or unexpired lease must file a Proof of Claim on or before the **later** of (i) the date that is thirty (30) days after the entry of an order approving the rejection of the executory contract or unexpired lease or (ii) the Bar Date (the "Rejection Bar Date").

6. CONSEQUENCES OF FAILURE TO FILE A PROOF OF CLAIM BY THE APPLICABLE BAR DATE

Any holder of a claim against MMA who is required to file a Proof of Claim, but who fails to do so (or is not deemed to have done so) on or before the Bar Date or the Rejection Bar Date, as applicable, **shall be forever barred, estopped, and enjoined from asserting such claim against MMA** (or filing a Proof of Claim or application for payment of administrative claim with respect thereto), and MMA and its property shall be forever discharged from any and all indebtedness or liability with respect to such claim.

Dated: March 19, 2014

ROBERT J. KEACH,
CHAPTER 11 TRUSTEE OF MONTREAL
MAINE & ATLANTIC RAILWAY, LTD.

By his attorneys:

/s/ Michael A. Fagone, Esq.
Michael A. Fagone, Esq.
D. Sam Anderson, Esq.
BERNSTEIN, SHUR, SAWYER & NELSON, P.A.
100 Middle Street
P.O. Box 9729
Portland, ME 04104
Telephone: (207) 774-1200
Facsimile: (207) 774-1127
E-mail: mfagone@bernsteinshur.com

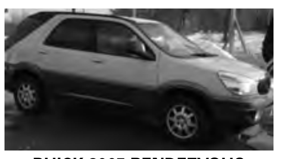
April 3, 2014

Legal Notices

SOLICITATION FOR SUBCONTRACTORS

to prequalify with CIANBRO in order to bid the University of Maine - Addition to Advanced Structures and Composites Center project at the University of Maine in Orono, Maine. This project is funded by an EDA Grant, grant number 01-79-14106. Please contact Bruce Cummings at bcumming@cianbro.com for a CIANBRO subcontractor prequalification package. All request for prequalification needs to be done on or before April 11. Performance and Payment Bond will be required of all trades.

March 31, April 1, 2, 3, 4, 5, 2014



BUICK 2005 RENDEZVOUS
$1500 Down, $65/wk w/2yr warranty. AT, AWD, New Legal Sticker.
Gerry's Used Cars 990-2206

CHEV TRAILBLZR 05 6CY AT 4WD 103K
EASY CREDIT! YOU ARE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
Rt1A, 2mi fr/Brewer WalMart 989-6777

CHEVY 1993 S-10 BLAZER 4WD 200k mi, 6' snow plow, no sticker, needs minor body and motor work, runs, reliable. Great yrd truck $1,000/Best Offer 944-2016

FORD 2002 ESCAPE
$1500 Down & $65/wk w/2 yr warranty
AT, 4WD, New Legal Sticker
Gerry's Used Cars 990-2206

FORD 2002 EXPEDITION EDDIE BAUER in Ellsworth, Eddie Bauer Edition, 125,000 mi., no rust, great condition. $7100/best offer. Call 1-330-749-8871

HYUNDAI 08 TUCSON 4WD V6 AT 103K
EASY CREDIT! YOU ARE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
1A, 2mi fr/Brewer Walmart 989-6777

Legal Notices

NOTICE OF PUBLIC INFORMATIONAL MEETING

Please take notice that Thermogen I, LLC, One Cate Street, Portsmouth, NH (tel. 603-319-4400) will hold a public informational meeting to describe its intent to file applications with the Maine Department of Environmental Protection to amend its Air Emission License and Site Location of Development approval pursuant to the provisions of 38 M.R.S.A. §§ 590 and 481 to 490, respectively. The applications are to address proposed changes to Thermogen's wood pellet manufacturing facility as previously licensed by DEP at the existing Millinocket Mill site owned and licensed by Great Northern Paper Company, LLC, GNP West, Inc., and GNP Holding I, LLC. The public informational meeting will be held on April 10, 2014 at 4:30 pm at the Millinocket Town offices, 197 Penobscot Avenue, Millinocket, Maine. This public informational meeting will be held as part of a meeting of the Millinocket Town Council to be convened at the same time and place.

At the informational meeting, the applicant will describe the project in greater detail and seeks public comment on the project.

April 3, 2014

Legal Notices

TRI COUNTY SOLID WASTE MANAGEMENT ORGANIZATION
P.O. BOX 96, UNION, MAINE 04862
PROVIDING SOLID WASTE MANAGEMENT SERVICES FOR THE COMMUNITIES OF UNION, APPLETON, LIBERTY, WASHINGTON, PALERMO & SOMERVILLE.

REQUEST FOR PROPOSALS

Tri County Solid Waste Management Organization, a quasi-municipal corporation, is seeking proposals for a new, open top, 107+/- yard, steel body, live (walking) floor, tri axle (lift axle) trailer to haul the community's household waste. As an open top trailer, compaction of waste is regularly performed by back-hoe so construction should be durable. Proposal should be for a 45 foot unit, no more than 46 feet 2 inches including catwalk, and have a GVW rating of 80,000 lbs. .A typical load weighs about 21 tons. Floor, top rails and suspension should all be heavy duty. Landing gear should be heavy duty and have extra bracing. Please provide several options for tarping systems.

Submit proposals to TCSWMO attn Jim Guerra, P.O. Box 96, Union, ME 04862 or by email to mcswc@roadrunner.com. Proposals will be rated on cost and durability. Please itemize and feel free to provide spec and cost for more durable components as appropriate. Questions should be directed to Jim at 207-975-5964. Due date is April 29th, 2014 with proposal opening on the 30th. Tri County Solid Waste Management Organization reserves the right to reject any and all proposals.

April 3, 5, 7, 2014

Legal Notices

126TH MAINE LEGISLATURE
LEGISLATIVE NOTICES
Hearings on Governor's Nominations

Legislative committees will hold public hearings as listed below for the purpose of considering nominations by the Governor for appointment to positions that require review by joint standing committees and to confirmation by the Legislature. You may testify at the public hearing or submit written testimony. Written testimony must be received by 9 am the day of the hearing and should be sent to: Legislative Information Office, 100 SHS, Augusta, Maine 04333-0100. Persons with special needs who wish to attend a Legislative hearing and require accommodations should notify the Legislative Information Office as soon as possible: 207-287-1692, TTY 207-287-6826, FAX 207-287-1580, webmaster_lio@legislature.maine.gov.
JOINT STANDING COMMITTEE ON EDUCATION AND CULTURAL AFFAIRS
Senator Rebecca J. Millett, Senate Chair, Representative W. Bruce MacDonald, House Chair
Public Hearing: Thursday, April 10, 2014, 1:00 PM, Cross Building, Room 202
Nominees: Beth Anne Lorigan of Brewer; Patricia A. Duran of Hermon to the Maine Community College System, Board of Trustees
The Board is the policy-making authority for the Community College System and is comprised of 13 voting members. They represent the fields of business and industry, labor, education, the general public, and the student body. The Board is responsible for developing and adopting policies for the operation and the administration of the System. A more detailed description of the Board can be found at http://www.mainelegislature.org/legis/statutes/20-A/title20-Ach431sec0.html
CONTACT: Gregory Pierce, 287-3125

Published April 3, 2014

Legal Notices

NOTICE OF PUBLIC SALE

Notice is hereby given that in accordance with the Judgment of Foreclosure and Sale entered November 18, 2013 in the action entitled **Wells Fargo Bank, NA v. Daniel I. Horowitz**, by the Maine District Court, Ellsworth, Docket No. ELLDC-RE-13-25, wherein the Court adjudged the foreclosure of a mortgage granted by Daniel I. Horowitz to Mortgage Electronic Registration Systems, Inc., as nominee for Access National Mortgage, its successors and assigns dated January 11, 2006 and recorded in the Hancock County Registry of Deeds in Book 4407, Page 128, the period of redemption having expired, a public sale of the property described in the mortgage will be conducted on **Thursday, June 19, 2014, commencing at 10:30AM, at the Law Office of Shapiro & Morley, LLC, 707 Sable Oaks Dr., Suite 250, South Portland, Maine 04106.**

The property is located at 167 Williams Pond Road, Bucksport, Maine.

The sale will be by public auction. All bidders for the property will be required to make a deposit of $5,000.00 in cash, certified or bank check at the time of the public sale made payable to Shapiro & Morley, LLC, which deposit is non-refundable as to the highest bidder. The balance of the purchase price shall be paid within thirty (30) days of the public sale. In the event a representative of Wells Fargo Bank, NA is not present at the time and place stated in this notice, no sale shall be deemed to have occurred and all rights to reschedule a subsequent sale are reserved. Additional terms will be announced at the public sale.

Wells Fargo Bank, NA, by its attorneys Shapiro & Morley, LLC, 707 Sable Oaks Dr., Suite 250, South Portland, Maine 04106, (207)-775-6223. 12-017705

Published May 15, 22, 29, 2014

Legal Notices

PUBLIC NOTICE OF INTENT TO FILE

Please take notice that within 30 days of the publication of this Notice, Thermogen I, LLC, One Cate Street, Portsmouth, NH (tel. 603-319-4400) intends to file applications with the Maine Department of Environmental Protection to modify its existing Air Emission License and Site Location of Development approval pursuant to the provisions of 38 M.R.S.A. §§ 590 and 481 to 490, respectively and associated DEP regulations. The applications are to address proposed modifications to the design of Thermogen's advanced biofuel wood pellet manufacturing facility at the existing Millinocket Mill site owned and licensed by Great Northern Paper Company, LLC, GNP West, Inc., and GNP Holding I, LLC.

A Public Information Meeting for these applications was held on April 10, 2014 in Millinocket. A request for a public hearing or a request that the Board of Environmental Protection assume jurisdiction over the applications must be received by the Department in writing, no later than 20 days after the application is found by the Department to be complete and is accepted for processing. A public hearing may or may not be held at the discretion of the Commissioner or Board of Environmental Protection. Public comment on each application will be accepted throughout the processing of the application.

The Air License application will be filed for public inspection at the Bureau of Air Quality DEP offices in Augusta (207) 287-2437, during normal working hours. The Site Location of Development application will be filed for public inspection at the Bureau of Land and Water Quality DEP offices in Bangor (207) 941-4570, during normal working hours. A copy of the applications may also be seen at the municipal offices in Millinocket, Maine.

Written public comments regarding the Air License application may be sent to Kathy Tarbuck at the Bureau of Air Quality, State House Station #17, Augusta, Maine 04333. Written public comments regarding the Site Law License applications may be sent to James Beyer at the Department's Eastern Maine Regional Office, 106 Hogan Road, Bangor, Maine 04401.

May 15, 2014

Legal Notices

NOTICE OF AGENCY RULE-MAKING ADOPTION

AGENCY: Department of Marine Resources

CHAPTER NUMBER AND TITLE: Chapter 34 Groundfish. Recreational cod and haddock federal compliance regulations. EMERGENCY RULEMAKING.

CONCISE SUMMARY:
In accordance with the New England Fisheries Management Council and for consistency with the National Marine Fisheries Service (NMFS) federal regulations effective May 1, 2014, the Department enacts this emergency rulemaking for all persons aboard charter, party and recreational fishing vessels operating in state waters regarding cod and haddock. For recreational cod fishing, the minimum fish size increases from 19 inches to 21 inches and the closed season is increased by two months and is now September 1, 2014 through April 14, 2015. For recreational haddock fishing, the daily per angler bag limit decreases from an unlimited amount to three fish per day and the closed season increases by four months and is now September 1 through November 20, 2014 and March 1 through April 30, 2015.

The recreational catch of both Gulf of Maine cod and haddock exceeded the catch limit in place for FY 2013. Because the FY 2013 recreational overage was substantial, significant changes in management measures were deemed necessary by NMFS to ensure the recreational fishery does not exceed its catch limit again in FY 2014. A very small bag limit was deemed required to sufficiently reduce recreational haddock catch and prevent additional quota overages. Analysis shows that many anglers encounter and keep only small numbers of haddock. The available information for FY 2013 shows that, on average, less than one haddock was kept per angler.

As authorized by 12 M.R.S.A. §6171(3), the Commissioner of Marine Resources adopts this emergency regulation due to the risk of unusual damage and imminent depletion of the cod and haddock resources.

EFFECTIVE DATE:	**May 15, 2014**
AGENCY CONTACT PERSON:	**Mr. Bruce Joule (207-633-9505)**
AGENCY NAME:	**Department of Marine Resources**
ADDRESS:	**State House Station 21 Augusta, Maine 04333-0021**
WEB SITE:	http://www.maine.gov/dmr/rulemaking/
E-MAIL:	dmr.rulemaking@maine.gov
TELEPHONE:	**(207) 624-6573**
FAX:	**(207) 624-6024**
TTY:	**(888) 577-6690 (Deaf/Hard of Hearing)**

Published May 15, 2014

Legal Notices

INVITATION TO COMMENT ON TELECOMMUNICATIONS FACILITY

Notice of Initiation of the Section 106 Process: Public Participation. US Cellular intends to install wireless telecommunications equipment on an existing tower located on River Road/Route 1 in Perry, Maine. This notice is provided in accordance with the regulations of the Federal Communications Commission, 47 C.F.R. Part 1, Appendices B and C. The existing facility consists of a 190 foot guyed tower and equipment shelter located at the base of the tower. The proposed telecommunications antenna installation heights are 150' and 190' above ground level. The proposed telecommunications devices are to be housed within the existing equipment shelter. The site's latitude/longitude of the approximate tower location is: N 44° 57' 44.3" W 67° 07' 34.2". Questions about this facility or this notice may be directed to Megan McGuire at 207.582.0056. Interested parties may submit comments on this proposal's potential effects to any historic properties that may be located at or near this site to: Black Diamond Consultants, c/o Project: 10-051, PO Box 57, Gardiner, ME 04345 or electronic comments to mjmcguire@blckdiamond.net.

Published May 15, 2014

Legal Notices

CITY OF ROCKLAND
BID NOTICE

Sealed bids for two new Ford Interceptor SUV police vehicles will be received by the City of Rockland at Rockland City Hall, 270 Pleasant St., Rockland, ME 04841, up to 2:00 PM on Wednesday, May 21, 2014, at which time they will be publicly opened and read. Specifications are available at the City of Rockland Police Department, 1 Police Plaza, Rockland, ME 04841, (207) 594-0316 and at http://bit.ly/RocklandMEPurchasing. Bids shall be submitted in sealed envelopes plainly marked:

"POLICE VEHICLE BID –
NOT TO BE OPENED UNTIL 2:00 PM, WEDNESDAY, MAY 21, 2014"

Bidders may be represented at bid opening if so desired. Faxed or e-mailed bids will not be accepted. The City of Rockland reserves the right to waive any informality in bids, to accept any bid, and to reject any or all bids should it be deemed in the best interest of the municipality to do so.

Thomas J. Luttrell
Rockland City Manager

Published May 15, 2014

Legal Notices

CITY OF ROCKLAND
RFP NOTICE

Requests for Proposals for the public display of art in Rockland will be accepted by the Rockland City Manager, Rockland City Hall, 270 Pleasant Street, Rockland, ME 04841, up to 2:00 PM, Thursday, May 29, 2014, at which time they will be publicly opened and read. The Request for Proposals is available at the Office of the City Manager, Rockland City Hall, 270 Pleasant Street, Rockland, ME 04841, telephone (207) 594-0300, and on the City website:
http://bit.ly/RocklandMEPurchasing. Proposals should be placed in sealed envelopes and plainly marked as follows:

Public Art Display Proposal
DO NOT OPEN UNTIL 2:00 PM
Thursday, June 5, 2014

Proposers may be represented at bid opening if so desired. Faxed or e-mailed bids will not be accepted. The City of Rockland reserves the right to waive any informality that does not materially affect a proposal, and to reject any or all proposals should it be deemed in the best interests of the City to do so.

Thomas J. Luttrell,
Acting City Manager

Published May 15, 2014

Legal Notices

REQUEST FOR PROPOSALS # 37-14

The University of Southern Maine is seeking proposals for Temporary Employment Trades Services. Proposals are due by 5:00 pm, Friday, June 6, 2014. For a copy of the RFP contact Matthew Robinson at matthew.j.robinson@maine.edu.

May 15, 2014

Legal Notices

S.A.D. #63
NOTICE OF ANNUAL BUDGET MEETING

The Maine School Administrative District #63 will hold a Budget Meeting on Thursday, May 22, 2014 at 7:00 p.m. in the Holbrook Middle School to vote on the 2014-2015 Proposed SAD #63 School Budget.

Published May 14, 15, 2014

Legal Notices

PUBLIC HEARING

By Order of the Hermon Town Council, a Public Hearing has been scheduled for Thursday, May 22, 2014 at 7:00pm in the Public Safety Meeting Room to approve the TOWN OF HERMON'S MUNICIPAL BUDGET for Fiscal Year 2014-2015.

May 14, 15, 16, 2014

Legal Notices

RSU 13, serving the Towns of Cushing, Owls Head, Rockland, St. George, South Thomaston & Thomaston, will hold its annual Regional Budget Adoption meeting starting at 6:00 PM, Tuesday, May 27, 2014 in the auditorium at Oceanside High School-East located at 400 Broadway, Rockland.

RSU 13 will hold its annual District budget validation referendum on June 10, 2014. Voting will be conducted by ballots at each of the towns.

May 15, 22, 2014

Legal Notices

BID NOTICE

Bids for **CONTRACT NO. 4 - ALBERT LANE, OXBOW DRIVE AND GRANDVIEW ACRES ROAD REHABILITATION** will be received by the **TOWN OF GLENBURN at 144 LAKEVIEW ROAD, GLENBURN, ME 04401,** until **THURSDAY, JUNE 5, 2014, 11:00 A.M.** and then at said office publicly opened and read aloud.

CONTRACT DOCUMENTS may be examined at:

ASSOCIATED CONTRACTORS OF MAINE, 188 WHITTEN ROAD, AUGUSTA, ME 04332
CONSTRUCTION SUMMARY, 2331 CONGRESS STREET, PORTLAND, ME 04102

or at A.E. Hodsdon Engineers, 10 Common Street, Waterville, Maine 04901, upon payment of **$150.00** for each set.

The Owner reserves the right to waive any informalities or to reject any or all bids.

May 15, 16, 2014

Legal Notices

NOTICE TO CONTRACTORS AND SUBCONTRACTORS REQUEST FOR BIDS (ADVERTISEMENT)

The University of Maine at Farmington is seeking bids for the following construction project:

Dearborn Gym Renovations

Project Summary: The scope includes replacement of bleachers, new gym floor, new roof-mounted HVAC units, new electrical service, new emergency lighting throughout, and miscellaneous structural to accommodate removal and relocation of the HVAC units.

Bids will be received until **2 p.m., June 4,** at which time and place the Bids will be opened and read aloud.

A * **Mandatory** * Pre-Bid meeting will be held at **10:00 AM on Tuesday, May 20, 2014 at Dearborn Gym on the University of Maine at Farmington campus.**

Additional information may be obtained at:
http://facilities.umf.maine.edu/advertisements/

UNIVERSITY OF MAINE SYSTEM
Laurie Gardner
for Board of Trustees

May 15, 16, 17, 2014

Legal Notices

NOTICE OF PUBLIC HEARING

An application to sell beer, wine and spirits has been filed by Spruces located in Lubec. The hearing will be held prior to the regular Selectmen's meeting on Thursday, May 22, 2014 at 6:00 p.m. at the Lubec Town Office.

May 15, 2014

SHOWCASE HOMES of Maine
BREWER, ME 989-2337

NEW 2014 CHAMPION 14 X 66 (70) delivered & set up on S. Levant Rd., Levant. $48,900 + tax. Incl. cement slab & 6 mo. FREE lot rent. Pvt lot. Call 989-2337 or andy@showcasehomesofmaine.com. Check out the web site www.showcasehomesofmaine.com

SHOWCASE HOMES of Maine
BREWER, ME 989-2337

NEW 2014 CHAMPION 28 X 56 (60) 3/4 BR delivered & set up under $75,000 + tx. Call 989-2337 or andy@showcasehomesofmaine.com. Check out web site at www.showcasehomesofmaine.com

SHOWCASE HOMES of Maine
BREWER, ME 989-2337

SAVE $5,000 NEW 2013 CHAMPION MODEL HOME NOW ONLY $67,925 delivered & set up. Call 989-2337. Check out the web site www.showcasehomesofmaine.com!

LOWELL Waterfrt custom wcedar post+beam spacious home. 3 BR/3 BA, oversize gar. w/10 ft doors + upstairs. $449,000 Anita Wilett, 207-210-8254
ajwillettrealty.mainelistings.com

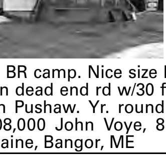
Shore Property 330

WOW!

CLIFTON 3 BR/1 BA Year round home on 1 acre on Chemo Pond. Very classy, quiet and calm; Ready to move in. This "Dreamhouse" has a walk out basement, garden, dock with a boat etc. This property has heavenly potential with a fun lifestyle. Very motivated seller. Call 951-6451; Serious buyers only. $260,000

LOOK

EDDINGTON 3 BR/2BA,Lakefront home, super-insulated, radiant heat with 2+ car garage on 2 acres. 206' waterfront on quiet lake only 11 miles from Bangor. Screened in front porch and dock. Maintenance free metal roof. Pictures at www.27morningwood.com
MLS#1086103 $335,000. Offering 3% buyer's agent fee. 207-843-7829



HUDSON 1 BR camp. Nice size lot, well & septic. On dead end rd w/30 ft of waterfrtage on Pushaw. Yr. round. Priced to sell. $108,000 John Voye, 852-6056 Realty of Maine, Bangor, ME

LOWELL "Waterfront cottage," 14.6 acs, full foundation, metal roof and solidly built out of post and beam construction. $225,000 Anita Willett, 207-210-8254 ajwillettrealty.mainelistings.com

Auto Dealers 355

Garrett's Auto Sales
WE FINANCE 989-6777
WWW.GARRETTSAUTO.COM

EZ CAR CREDIT! YOU'RE APPROVED!
09 Sub. Outback SW AWD 4 cyl AT 118k
09 Pontiac G6 GT 4dr V6 AT 125k
08 Pontiac Grand Prix V6 AT 94k
08 Hyundai Tucson 4WD V6 AT 103k
07 Chev Impala LTZ 4dr AT S-roof 125k
06 GMC Envoy SLE 4wd 6cyl AT 121k
06 Pontiac Vibe 4cyl 5dr AT FWD 111k
04 Honda Accord 2dr V6 5spd AT 138k
03 GMC Yukon SLT 4wd p. roof AT 148k
2 mi. fr/Brewer Wal-Mart, RT1A, Holden

GERRY'S USED CARS
1201 State St, Veazie, 990-2206
and
266 Newport Rd., Corinna, 278-2205
ALL IN-HOUSE FINANCING
Ask about our 2-year
30,000 mile warranty

Boats/Marine 360

BOAT 15' Glassmaster w/ trailer, windshield, 1977 55 hp Evinrude w/controls, good cond., runs good, needs seats. $1100/ best offer. 262-9958, lv. msg.

BOSTON WHALER 15' with 1999 50hp Johnson electric-tilt outboard, trailer, gas tanks, battery, cushions, anchor & bumpers. One owner. Well maintained. Garaged. $6,000 obro 266-6864 flo.l.reed@gmail.com

CARVER 1983 AFT CABIN 32 White Excellent condition. Great family cruser. 2 staterooms; 2 heads 1 w/shower; full galley with stove, microwave, and refrigerator; salon with sleeper sofa also serves as dining area; aft deck; fully enclosed bridge; new systems including new engines (25 hours), 7 K Westerbeke generator, water heater, holding tanks, electrical, electronics (Raymarine C120 - radar, sounder, chart plotter, spedometer). Downsizing. asking $35,900 (over $40,000 invested). 207-234-4538

DINGHY 8.5 feet, hard chine, Dyer type, canvas rub rail, excellent condition,very stable with 3.3 Mercury motor. Winterport $1,000 OBO (207) 735-5060

GULF STAR KETCH 1976
43 ft., project boat, $5,000. 1972 COLUMBIA SLOOP 26 ft., $2,500. 1972 OLD TOWN POWER BOAT, 25 ft., $2,500. Call 266-9828

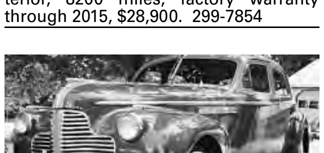
MOORINGS two 2500 pound granite moorings in Ellsworth and Sorrento both for $950. 422-3015 flyer007@roadrunner.com

NEW 350 MERCRUISER 22', outdrive overhauled, Fish wells, new blower, fiberglass hull, full cover, tandem trailer, needs some upholstery, $6,400. Call 949-3670

TIARA 25' excellent condition, 454 IO, trailer, $16,000 207-422-3015 flyer007@roadrunner.com

Cars 365

BMW 2011 328 i Black, beige leather interior, 8200 miles, factory warranty through 2015, $28,900. 299-7854



BUICK ROADMASTER 1940- 4 door. All complete, except radio. Licensed and insur. to drive. Needs some TLC. $7000. 416-7017 207-416-7017

CADILLAC 2009 DTS 27,800 Mi, Florida car with 27,800 miles. Diamond White. Must see to believe. Asking $19,000
207-723-4063

CADILLAC CTS SFI 2009 - 14,500 MILES
4-door, Sedan, Red/Beige, 6-cylinder, Automatic, AWD, 14,500 Mi, Excellent condition. By Owner, Only 14,500 MILES. 1 owner. CARFAX available. OnStar and personal calling. Absolute joy to drive! $21,500 For appointment call 801-560-3563 or email vlarabee@gmail.com.

CHEV 1978 CORVETTE - 25th Anniversary, 350 auto, black w/red interior, T-top & 1 pc. glass top, 2 sets of wheels, exc. cond. Asking $12,500. 843-0445

CHEVROLET 1982 CORVETTE Brand new GM 350 crate! All new parts inside and out, too many to list! May need minor paint. Call 695-2267 for info.

CHEVROLET 2006 COBALT
Finance w/dwnpmnt & $50/wk w/2yr warranty, 2dr, AT, new legal sticker
Gerry's Used Cars 990-2206

CHEVROLET 2006 MALIBU MAXX
Finance w/dwnpmnt & $50/wk w/2yr warranty, 4dr, AT, new legal sticker
Gerry's Used Cars 990-2206

CHEVY CORVETTE-
1962, 327 C.I., 4 spd, orig., new paint, silver on black, runs great! Garaged. Ragtop (fair). Reduced $47,000, great investment. 951-6451

HONDA CIVIC VP 2010 5spd, A/C, power windows, snow tires, well maintained, 45k miles, $11,500 (below book value). Call 991-7299

LINCOLN 1977 MARK V
Mint Cartier Series. 39000 mi. One owner. 460 V8. All power options. garaged. $11,000.
772-546-0427 jpdono@att.net

LINCOLN TOWN CAR
loaded, every option available that year, newer tires & brakes, **REDUCED TO $6490.**
Call 356-5117

NISSAN 350 Z 35TH ANNIVERSARY EDITION -2005
Automatic, ultra yellow, exc shape, 21,000 miles. Loaded, upgraded sound system w/Sirius radio, Navigation system, TSW wheels w/19" Hankook tires, Bembro brakes. Looks great and a blast to drive. $15,000 207-427-6659 aslefinger@roadrunner.com

PONTIAC 08 GRAND PRIX V6 AT 94K
EZ CAR CREDIT! YOU'RE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
Rt1A, 2mi fr/Brewer WalMart 989-6777

PONTIAC 2002 GRAND PRIX
3.8 engine. Very sharp, no rust. Runs great. High mileage. New sticker. $2800
Anson Motor located on Main St, Newport, ME. Call 355-1421.

PONTIAC 2005 G6
Finance w/dwnpmnt & $50/wk w/2yr warranty. AT, 4DR, new legal sticker.
Gerry's Used Cars 990-2206

PONTIAC 2006 GRAND PRIX
Finance w/dwnpmnt & $50/wk w/2yr warranty. AT, 4dr, New Legal Sticker.
Gerry's Used Cars 990-2206

SUBARU 2008 OUTBACK 2.5 I 4-door, Wagon, Gold/Gold, 4-cylinder, Manual, AWD, 124,000 Mi, Excellent condition. By Owner, New brakes, front cvc joints, rear bearings. Trailer hitch. One owner, one driver. $8,500 207-862-4441

TOYOTA 05 CAMRY LE 4CYL AT 139K
EZ CAR CREDIT! YOU'RE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
1A, 2mi fr/Brewer Walmart 989-6777

TOYOTA 2007 COROLLA LE Platinum Sedan, Exc. condition, 4 cyl, Auto., 36 mpg, 111,000K, $10,000 firm. Steuben. hanson.larch@gmail.com

Vans/Minivans 370

CHEVROLET 2009 EXPRESS VAN 2500 SERIES - White, 4.8 engine, 74k miles, new tires, excellent condition. $9600. Bangor, call 570-6200.

CHRYSLER TOWN & COUNTRY
Finance w/dwnpmnt & $50/wk w/2yr warranty AT, 4dr, new legal sticker
Gerry's Used Cars 990-2206

DODGE - 2000 FLORIDA Grand Caravan
165k mostly hwy All power, zero rust, very nice, needs brakes. Exc. financing avail. Reduced to $2,500. for Pictures 226-7540, 877-566-6686, ID #107295

DODGE 2006 CARAVAN
Finance w/dwnpmnt & $50/wk w/2yr warranty, AT, 4DR, New Legal Sticker
Gerry's Used Cars 990-2206

FORD 2002 E350 WORK VAN
63,000 miles, new motor, good rubber, radio, cruise, air. Excellent shape. $6,500. Call 255-0927 evenings.

KIA 2011 SEDONA New tires, 54,000 miles, gray int/ext., quad seats, PW, PDL, good cond., Fla van. $14,500 or best offer. 207-462-7424

Motorcycles/Mopeds 375

BIG DOG 2004 CHOPPER Show Bike with low mileage, one owner, **REDUCED TO $12,500** or trade for hot rod. Call Dana at 207-227-4160

HARLEY DAVIDSON 2007 FXDB Street Bob, kobalt blue, lots of extras, 455 miles. $11,000 Or Best Offer 290-1250

KYMCO SUPER-8 SCOOTER 2010 150cc, Red/Black. Speedometer, Odometer, Trip meter, Fuel Gauge, 70mph max spd, 70mpg. New batt, 1200mi. Runs & looks new. $2500 Call Mike 949-3117

SUZUKI 2005 VL800T BOULEVARD 32,900 mi. Shaft driven. Loaded w/extras, windshield, saddlebags, footrests etc. Exc. condition. $3900. 207-990-3191.

SUZUKI 2006 V-STROM DL-650 Red, 20,484 Mi, Ex cond. 2 new tires, bat, air filter, spark plugs. Manuals incl. Lic. Ready to go. $4,000 207-862-3392

TOW-BEHIND TRAILER - 1997 Hannigan, cargo body type, Trans-Sport model, GVW 500 lbs., attaches behind bike. $1,700. Located in Belmont. 342-2315.

TRIUMPH 2005 BONNEVILLE AMERICA 650 CC - 1,962 Mi, excellent cond. Extras inc. $4,500. 207-944-3886

Sport Utility 380

CADILLAC 2000 ESCALADE
Finance w/dwnpmnt & $65wk w/2yr warranty AT, 4WD, new legal sticker
Gerry's Used Cars 990-2206

CHEVY 06 TBLAZER 3 ROW 4WD 132K
EZ CAR CREDIT! YOU'RE APPROVED!
==>>> GARRETTSAUTO.COM <<<==
Rt1A, 2mi fr/Brewer WalMart 989-6777

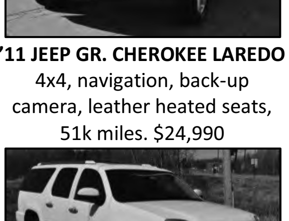
CHEVY 1993 S-10 BLAZER 4WD 200k mi, 6' snow plow, no sticker, needs minor body and motor work, runs, reliable. Great yrd truck $1,000/Best Offer 944-2016

FORD 2002 ESCAPE
Finance w/dwnpmnt & $65/wk w/2yr warranty, 4WD, AT, new legal sticker
Gerry's Used Cars 990-2206

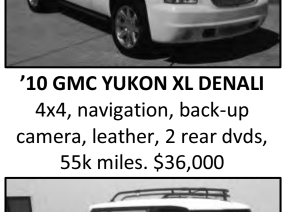
FORD 2002 EXPEDITION EDDIE BAUER in Ellsworth, Eddie Bauer Edition, 125,000 mi., no rust, great condition. $7100/best offer. Call 1-330-749-8871

D&S Auto

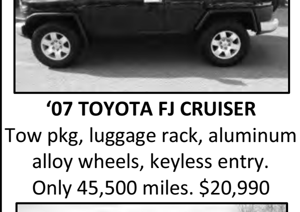
Specializing in "Special Order Vehicles"
Stop by to order yours today!
Also featuring:



'11 JEEP GR. CHEROKEE LAREDO
4x4, navigation, back-up camera, leather heated seats, 51k miles. $24,990



'10 GMC YUKON XL DENALI
4x4, navigation, back-up camera, leather, 2 rear dvds, 55k miles. $36,000



'07 TOYOTA FJ CRUISER
Tow pkg, luggage rack, aluminum alloy wheels, keyless entry. Only 45,500 miles. $20,990

'09 CADILLAC ESCALADE EXT
Black on black, rear DVD, navigation, back up camera. 72,000 miles. $33,490

221 Dirigo Drive, Brewer
207-989-0300
www.dandsauto.com

APPENDIX B

SUPPORTING CALCULATIONS

SUPPORTING CALCULATIONS
EMISSIONS
Thermogen I, LLC
Millinocket, Maine

Annual Capacity Factor	95.00%	=	8,322.0 hr
Burner size	160 MMBTU/hr		
Normal burner operating rate	115 MMBTU/hr		
Dryer Capacity	55.10 ODT/hr		
WESP PM Control Effic.	96%		
RTO CO Control Effic.	70%		
RTO VOC Control Effic.	97%		
Pellet Cooler Cyclone Efficiency	95%		

Sawdust Burner - Exhausts Through WESP/ RTO

NO_x

Max Hourly

0.191 lb/MMBTU	x	160 MMBTU/hr	=	30.56 lb/hr						

Annual

0.191 lb/MMBTU	x	115.4 MMBTU/hr	=	22.04 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	91.7 ton/yr

PM/PM10/PM2.5

Max Hourly

0.56 lb/MMBTU	x	160 MMBTU/hr	=	89.60 lb/hr	x	(1 - 96%)	=	3.58 lb/hr

Annual

0.56 lb/MMBTU	x	115.4 MMBTU/hr	=	64.62 lb/hr	x	(1 - 96%)	=	2.58 lb/hr
	x	8,322.0 hr	÷	2,000 lb/ton	=	10.8 ton/yr		

CO

Max Hourly

0.376 lb/MMBTU	x	160 MMBTU/hr	=	60.16 lb/hr	x	(1 - 70%)	=	18.05 lb/hr

Annual

0.376 lb/MMBTU	x	115.4 MMBTU/hr	=	43.39 lb/hr	x	(1 - 70%)	=	13.02 lb/hr
	x	8,322.0 hr	÷	2,000 lb/ton	=	54.2 ton/yr		

SO_2

0.025 lb/MMBTU	x	160 MMBTU/hr	=	4.00 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	16.6 ton/yr

Annual

0.025 lb/MMBTU	x	115.4 MMBTU/hr	=	2.89 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	12.0 ton/yr

CO_2e (CO_2, N_2O), CH_4)

Annual

195 lb/MMBTU	x	115.4 MMBTU/hr	x	1 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	93,635 ton/yr
0.013 lb/MMBTU	x	115.4 MMBTU/hr	x	298 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	1,860 ton/yr
0.021 lb/MMBTU	x	115.4 MMBTU/hr	x	25 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	252 ton/yr
93,635 ton/yr	+	1,860 ton/yr	+	252 ton/yr	=	95,747 ton/yr				

Dryer -Exhausts through WESP/RTO

VOC

1.016 lb/ODT	x	55.10 ODT/hr	=	55.98 lb/hr	x	(1 - 97%)	=	1.68 lb/hr
1.68 lb/ODT	x	8,322.0 hr	÷	2,000 lb/ton	=	7.0 ton/yr		

Thermal Treatment Island - Exhausts through WESP/RTO

The emission factor for the Thermal Treatment Island is based on information from Zilkha design and the cyclone design spec.

PM/PM10/PM2.5

0.142 lb/ODT	x	45.60 ODT/hr	=	6.48 lb/hr	x	(1 - 96%)	=	0.26 lb/hr
0.26 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	1.1 ton/yr		

VOC

9.76 lb/ODT	x	45.60 ODT/hr	=	445.06 lb/hr	x	(1 - 97%)	=	13.35 lb/hr
13.35 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	55.6 ton/yr		

SUPPORTING CALCULATIONS
EMISSIONS
Thermogen I, LLC
Millinocket, Maine

Fuel Hammermill Aspiration -Controlled emission rate after baghouse

Emissions from the fuel hammermills pass through a baghouse. Emissions are after the baghouse.

PM/PM10/PM2.5

0.0040 lb/ODT	x	8.54 ODT/hr	=	0.034 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.142 ton/yr

Dry Chips Transfer system - Controlled emission rate after baghouse

Emissions for the pellet system fines pneumatic system pass through a baghouse. Emissions are after the baghouse.

PM/PM10/PM2.5

0.00505 lb/ODT	x	45.60 ODT/hr	=	0.230 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.958 ton/yr

Pellet Mills and Coolers

The VOC emission factor for pellet coolers comes from Zilkha. The PM emission factor is back calculated from controlled emissions from *Emissions and Air Pollution Controls for the Biomass Pellet Manufacturing Industry* by Beauchemin and Tampier, Envirochem Services, for the BC Ministry of the Environment. Emission factors are in lb/per dry metric ton of pellets produced.

Pellet System Aspiration -Passes through baghouse, used as combustion air for dust burner, and exhausted to WESP/RTO

VOC								
1.81 lb/ODT	x	46.6 ODT/hr	=	84.35 lb/hr	x	(1 - 97%)	=	2.53 lb/hr
2.53 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	10.5 ton/yr		
PM/PM10/PM2.5								
0.0014 lb/ODT	x	46.6 ODT/hr	=	0.065 lb/hr	x	(1 - 96%)	=	0.003 lb/hr
0.00 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.011 ton/yr		

Pellet Coolers - Exhaust through cyclone- Cyclone exhaust is 10% PM10, 5% PM2.5 (per J. Richards of Air Control Techniques)

VOC										
0.057 lb/ODT	x	46.6 ODT/hr	=	2.66 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	11.1 ton/yr
PM										
2.36 lb/ODT	x	46.6 ODT/hr	=	109.98 lb/hr	x	(1 - 95%)	=	5.50 lb/hr		
5.50 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	22.9 ton/yr				
PM10										
5.50 lb/hr	x	10%	=	0.550 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	2.3 ton/yr
PM2.5										
5.50 lb/hr	x	5%	=	0.27 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	1.1 ton/yr

Pellet System Fines Transfer -Controlled emission rate after baghouse

Emissions for the air aspirated dry hammermills pass through a baghouse. Emissions are after the baghouse.

PM/PM10/PM2.5

0.070 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.291 ton/yr

Steam Boiler

NO_x										
0.036 lb/MMBTU	x	42.6 MMBTU/hr	=	1.53 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	6.4 ton/yr
VOC										
0.005 lb/MMBTU	x	42.6 MMBTU/hr	=	0.21 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.9 ton/yr
PM										
0.007 lb/MMBTU	x	42.6 MMBTU/hr	=	0.30 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	1.2 ton/yr
CO										
0.0365 lb/MMBTU	x	42.6 MMBTU/hr	=	1.55 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	6.5 ton/yr
SO_2										
0.001 lb/MMBTU	x	42.6 MMBTU/hr	=	0.026 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.1 ton/yr

SUPPORTING CALCULATIONS
EMISSIONS
Thermogen I, LLC
Millinocket, Maine

CO_2e (CO_2, N_2O), CH_4)
Annual

118 lb/MMBTU	x	42.6 MMBTU/hr	x	1 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	20,917 ton/yr
0.000627 lb/MMBTU	x	42.6 MMBTU/hr	x	298 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	33 ton/yr
0.00225 lb/MMBTU	x	42.6 MMBTU/hr	x	25 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	10 ton/yr
20,917 ton/yr	+	33 ton/yr	+	10 ton/yr	=	20,960 ton/yr				

Oxidizer

The oxidizer will have a burner capacity of 25 MMBTU/hr. However, this capacity is required only to preheat the oxidizer from a cold start. During actual operation, the required heat input is 4 MMBTU/hr.

NO_X

0.040 lb/MMBTU	x	4 MMBTU/hr	=	0.16 lb/hr	x	8,322.0 hr	÷	2,000 lb/ton	=	0.7 ton/yr

CO_2e (CO_2, N_2O), CH_4)
Annual

118 lb/MMBTU	x	4 MMBTU/hr	x	1 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	1,964 ton/yr
0.000627 lb/MMBTU	x	4 MMBTU/hr	x	298 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	3 ton/yr
0.00225 lb/MMBTU	x	4 MMBTU/hr	x	25 GWF	x	8,322.0 hr	÷	2,000 lb/ton	=	1 ton/yr
1,964 ton/yr	+	3 ton/yr	+	1 ton/yr	=	1,968 ton/yr				

Emergency Generator

The emergency generator will be permitted for up to 500 hours of operation per year. It will be used to allow for a controlled shutdown of the process fans. Data based on a Caterpillar 250DQDAA generator meeting the Tier 3 engine standards

NO_X

382 hp	x	3.42 gm/bhp-hr	÷	453.6 gm/lb	=	2.88 lb/hr
2.88 lb/hr	x	500 hr/yr	÷	2,000 lb/ton	=	0.72 ton/yr

VOC

382 hp	x	0.05 gm/bhp-hr	÷	453.6 gm/lb	=	0.04 lb/hr
0.04 lb/hr	x	500 hr/yr	÷	2,000 lb/ton	=	0.01 ton/yr

CO

382 hp	x	2.60 gm/bhp-hr	÷	453.6 gm/lb	=	2.19 lb/hr
2.19 lb/hr	x	500 hr/yr	÷	2,000 lb/ton	=	0.55 ton/yr

PM/PM10/PM2.5

382 hp	x	0.17 gm/bhp-hr	÷	453.6 gm/lb	=	0.14 lb/hr
0.14 lb/hr	x	500 hr/yr	÷	2,000 lb/ton	=	0.04 ton/yr

SO2

382 hp	x	0.0021 gm/bhp-hr	÷	453.6 gm/lb	=	0.0017 lb/hr
0.002 lb/hr	x	500 hr/yr	÷	2,000 lb/ton	=	0.00043 ton/yr

CO_2e

382 hp	x	1.15 gm/bhp-hr	x	1 GWF	÷	453.6 gm/lb	x	
500 hr/yr	÷	2,000 lb/ton	=	0.242 ton/yr				
382 hp	x	9.30E-06 gm/bhp-hr	x	298 GWF	÷	453.6 gm/lb	x	
500 hr/yr	÷	2,000 lb/ton	=	0.000583 ton/yr				
382 hp	x	4.60E-05 gm/bhp-hr	x	25 GWF	÷	453.6 gm/lb		
500 hr/yr	÷	2,000 lb/ton	=	0.000242 ton/yr				
0.2421 ton/yr	+	0.0006 ton/yr	+	0.0002 ton/yr	=	0.243 ton/yr		

SUPPORTING CALCULATIONS
HAP EMISSIONS FROM DRYER/SAWDUST BURNER

Thermogen I, LLC
Millinocket, Maine

Hazardous Air Pollutant	CAS Number	Emission Factor	Maximum Annual Throughput	Emission Rate Uncontrolled for Organic Gases (ton/yr)	Emission Rate Controlled for Organic Gases (ton/yr)
Acetaldehyde	75-07-0	0.0188 lb/ODT	458,542 ODT/yr	4.310	0.129
Acrolein	107-02-8	0.0361 lb/ODT	458,542 ODT/yr	8.277	0.248
Antimony	7440-36-0	4.2E-07 lb/MMBTU	960,359 MMBTU/yr	0.0002	0.0002
Arsenic	7440-38-2	1.0E-06 lb/MMBTU	960,359 MMBTU/yr	0.00048	0.00048
Benzene	71-43-2	0.0007 lb/ODT	458,542 ODT/yr	0.160	0.005
Beryllium	7440-41-7	1.9E-06 lb/MMBTU	960,359 MMBTU/yr	0.0009	0.0009
Cadmium	7440-43-9	1.9E-06 lb/MMBTU	960,359 MMBTU/yr	0.0009	0.0009
Chromium	18540-29-9	6.0E-07 lb/MMBTU	960,359 MMBTU/yr	0.0003	0.0003
Cobalt	7440-48-4	1.9E-07 lb/MMBTU	960,359 MMBTU/yr	0.0001	0.0001
Cumene	98-82-8	0.0026 lb/ODT	458,542 ODT/yr	0.596	0.018
Formaldehyde	50-00-0	0.0420 lb/ODT	458,542 ODT/yr	9.629	0.385
Hydrogen Chloride	7647-01-0	0.0018 lb/ODT	458,542 ODT/yr	0.413	0.413
Lead	7439-92-1	5.8E-06 lb/MMBTU	960,359 MMBTU/yr	0.003	0.0028
Manganese	7439-96-5	1.5E-04 lb/MMBTU	960,359 MMBTU/yr	0.072	0.072
Mercury	7439-97-6	9.9E-06 lb/MMBTU	960,359 MMBTU/yr	0.005	0.0048
Methanol	67-56-1	0.0032 lb/ODT	458,542 ODT/yr	0.734	0.022
Methyl Isobutyl Ketone	108-10-1	0.0128 lb/ODT	458,542 ODT/yr	2.935	0.088
Nickel	7440-02-0	2.9E-06 lb/MMBTU	960,359 MMBTU/yr	0.0014	0.0014
Phenol	108-95-2	0.0015 lb/ODT	458,542 ODT/yr	0.344	0.010
Propionaldehyde	123-38-6	0.0008 lb/ODT	458,542 ODT/yr	0.183	0.006
Selenium	7782-49-2	3.0E-06 lb/MMBTU	960,359 MMBTU/yr	0.001	0.0014
Styrene	100-42-5	0.0020 lb/ODT	458,542 ODT/yr	0.459	0.014
Toluene	108-88-3	0.0092 lb/ODT	458,542 ODT/yr	2.109	0.063
			TOTAL	30.23	1.49

Notes:
1. Emissions for organic HAP, except formaldehyde, based on emission factors from NCASI Emission Factors for OSB Rotary Dryers uncontrolled for Organic Gases. Formaldehyde emission factor is from vendor data.
2. Emission factors for metal HAP are from emission factors for biomass boilers with ESP or fabric filter controls in Table 20B of NCASI Technical Bulletin 858.
3. Controlled emission rates are based on a 97% control efficiency for organic compounds. Particulate matter emission factors are post-control, so no additional control for particulate matter is accounted for.
4. No control was assumed for Hydrogen Chloride.

SUPPORTING CALCULATIONS
HAP EMISSIONS FROM EMERGENCY GENERATOR

Thermogen I, LLC
Millinocket, Maine

Hazardous Air Pollutant	CAS Number	Emission Factor (lb/MMBtu)	Maximum Annual Throughput (MMBtu/yr)	Annual Emission Rate (ton/yr)
Benzene	71-43-2	9.33E-04	1,340	6.3E-04
Toluene	108-88-3	4.09E-04	1,340	2.7E-04
Xylenes	1330-20-7	2.85E-05	1,340	1.9E-05
1,3-Butadiene	106-99-0	3.91E-05	1,340	2.6E-05
Formaldehyde	50-00-0	1.18E-03	1,340	7.9E-04
Acetaldehyde	75-07-0	7.97E-04	1,340	5.3E-04
Acrolein	107-02-8	9.25E-05	1,340	6.2E-05
Napthalene	91-20-3	8.48E-05	1,340	5.7E-05
Acenaphthylene*	208-96-8	5.06E-06	1,340	3.4E-06
Acenaphthene*	83-32-9	1.42E-06	1,340	9.5E-07
Fluorene*	86-73-7	2.92E-05	1,340	2.0E-05
Phenanthrene*	85-01-8	2.94E-05	1,340	2.0E-05
Anthracene*	120-12-7	1.87E-06	1,340	1.3E-06
Fluoranthene*	206-44-0	7.61E-06	1,340	5.1E-06
Pyrene*	129-00-0	4.78E-06	1,340	3.2E-06
Benzo(a)anthracene*	56-55-3	1.68E-06	1,340	1.1E-06
Chrysene*	218-01-9	3.53E-07	1,340	2.4E-07
Benzo(b)fluoranthene*	205-99-2	9.91E-08	1,340	6.6E-08
Benzo(k)fluoranthene*	207-08-9	1.55E-07	1,340	1.0E-07
Benzo(a)pyrene*	50-32-8	1.88E-07	1,340	1.3E-07
Indeno(1,2,3-cd)pyrene*	193-39-5	3.75E-07	1,340	2.5E-07
Dibenz(a,h)anthracene*	53-70-3	5.83E-07	1,340	3.9E-07
Benzo(g,h,i)perylene*	191-24-2	4.89E-07	1,340	3.3E-07
Total PAH	n/a	1.68E-04	1,340	1.1E-04
			TOTAL	2.44E-03

Notes:
1. Emissions based on emission factors from AP-42 (Table 3.3-2).
2. Maximum annual throughput based on generator design heat input of 2.68 MMBtu/hr and 500 hours per operating year.

SUPPORTING CALCULATIONS
HAP EMISSIONS FROM STEAM BOILER

Thermogen I, LLC
Millinocket, Maine

Hazardous Air Pollutant	CAS Number	Emission Factor (lb/MMBtu)	Maximum Annual Throughput (MMBtu/yr)	Annual Emission Rate (ton/yr)
2-Methylnaphthalene *	91-57-6	2.4E-08	354,517	4.17E-06
3-Methylchloranthrene*	56-49-5	1.8E-09	354,517	3.13E-07
7,12-Dimethylbenz(a)anthracene*	57-97-6	1.6E-08	354,517	2.78E-06
Acenaphthene*	83-32-9	1.8E-09	354,517	3.13E-07
Acenaphthylene*	203-96-8	1.8E-09	354,517	3.13E-07
Anthracene*	120-12-7	2.4E-09	354,517	4.17E-07
Benzo(a)anthracene*	56-55-3	1.8E-09	354,517	3.13E-07
Benzene	71-43-2	2.1E-06	354,517	3.65E-04
Benzo(a)pyrene*	50-32-8	1.2E-09	354,517	2.09E-07
Benzo(b)fluoranthene*	205-99-2	1.8E-09	354,517	3.13E-07
Benzo(g,h,i)perylene*	191-24-2	1.2E-09	354,517	2.09E-07
Benzo(k)fluoranthene*	205-82-3	1.8E-09	354,517	3.13E-07
Chrysene *	218-01-9	1.8E-09	354,517	3.13E-07
Dibenzo(a,h)anthracene*	53-70-3	1.2E-09	354,517	2.09E-07
Dichlorobenzene	25321-22-6	1.2E-06	354,517	2.09E-04
Fluoranthene *	206-44-0	2.9E-09	354,517	5.21E-07
Fluorene*	86-73-7	2.7E-09	354,517	4.87E-07
Formaldehyde	50-00-0	7.4E-05	354,517	1.30E-02
Hexane	110-54-3	1.8E-03	354,517	3.13E-01
Indeno(1,2,3-cd)pyrene*	193-39-5	1.8E-09	354,517	3.13E-07
Napthalene	91-20-3	6.0E-07	354,517	1.06E-04
Phenanathrene*	85-01-8	1.7E-08	354,517	2.95E-06
Pyrene*	129-00-0	4.9E-09	354,517	8.69E-07
Toluene	108-88-3	3.3E-06	354,517	5.91E-04
Arsenic	7440-38-2	2.0E-07	354,517	3.48E-05
Beryllium	7440-41-7	1.2E-08	354,517	2.09E-06
Cadmium	7440-43-9	1.1E-06	354,517	1.91E-04
Chromium	7440-47-3	1.4E-06	354,517	2.43E-04
Cobalt	7440-48-4	8.2E-08	354,517	1.46E-05
Manganese	7439-96-5	3.7E-07	354,517	6.60E-05
Mercury	7439-97-6	2.5E-07	354,517	4.52E-05
Nickel	7440-02-0	2.1E-06	354,517	3.65E-04
Selenium	7782-49-2	2.4E-08	354,517	4.17E-06
			TOTAL	0.33
			TOTAL PAH	1.50E-05

Notes:
1. Emissions based on emission factors from AP-42 (Table 1.4-3 and Table 1.4-4).
2. Maximum annual throughput based on steam boiler design heat input of 42.6 MMBtu/hr and 8,322 hours per operating year.
3. "*" Indicates PAH.

SUPPORTING CALCULATIONS
HAP AS A PERCENTAGE OF VOC FOR PELLETIZING PROCESS

Thermogen I, LLC
Millinocket, Maine

Batch No.	Time	Flow (std ft^3)	Flow Rate (ft^3/hr)	VOC (ppmv)	VOC (lb/ft^3)	Acetaldeyde (ppmv)	Acetaldeyde (lb/ft^3)	Formaldehyde (ppmv)	Formaldehyde (lb/ft^3)	Methanol (ppmv)	Methanol (lb/ft^3)
1	13:45-13:50	3789.7	350,866	90.5	1.03185E-05	-	-	-	-	2.6	2.2E-07
2	14:20-14:25	2540.2	346,194	90.5	1.03185E-05	-	-	-	-	2	1.7E-07
3	14:55-15:00	3832.1	355,891	90.5	1.03185E-05	-	-	-	-	1.8	1.5E-07

TOTALS (lb/ft^3)		% VOC
VOC	3.1E-05	-
HAP	5.3E-07	1.71%
Acetaldeyde	-	-
Formaldehyde	-	-
Methanol	5.3E-07	1.71%

Notes:
1. Concentrations of VOC and HAP as measured on November 12, 2013 at the Zilkha Biomass Crockett, Texas pilot plant.

SUPPORTING CALCULATIONS
HAP AS A PERCENTAGE OF VOC FOR THERMAL TREATMENT SYSTEM

Thermogen I, LLC
Millinocket, Maine

Batch No. / Type		Flow (std ft^3)	VOC (ppmv)	VOC (lbs)	Acetaldeyde (ppmv)	Acetaldeyde (lbs)	Formaldehyde (ppmv)	Formaldehyde (lbs)	Methanol (ppmv)	Methanol (lbs)	Total HAP (lbs)
3	Bleed	3789.7	3114	1.35	981	0.42	-	-	1310	0.411	0.83
	Blow	2540.2	4715	1.37	901	0.26	-	-	1348	0.28	0.54
5	Bleed	3832.1	2643	1.15	793	0.35	-	-	1318	0.42	0.76
	Blow	2544.7	4633	1.34	1075	0.31	-	-	1346	0.28	0.60
6	Bleed	3778.1	4433	1.91	686	0.30	-	-	3541	1.11	1.40
	Blow	2540.6	5702	1.65	1009	0.29	10	0.002	3637	0.77	1.06
7	Bleed	3751.9	4483	1.92	614	0.26	35	0.01	-	-	0.27
	Blow	2536.1	7007	2.03	614	0.18	36	0.01	-	-	0.18
						2.37		0.02		3.27	5.66

TOTALS (lbs)		% VOC
VOC	12.72	-
HAP	5.66	44.5%
Acetaldeyde	2.37	18.6%
Formaldehyde	0.02	0.2%
Methanol	3.27	25.7%

Notes:
1. Concentrations of VOC and HAP as measured on November 12, 2013 at the Zilkha Biomass Crockett, Texas pilot plant.

SUPPORTING CALCULATIONS
HAP EMISSIONS FROM PELLETIZING AND THERMAL TREATMENT

Thermogen I, LLC
Millinocket, Maine

Pellet Aspirator

Hazardous Air Pollutant	% of VOC that is HAP	VOC Emission Rate (lb/hr)	Uncontrolled Emission Rate (lb/hr)	Controlled Emission Rate (lb/hr)	Controlled Emission Rate (ton/yr)
Acetaldeyde	-	84.35	0.00	-	-
Formaldehyde	-	84.35	0.00	-	-
Methanol	1.71%	84.35	1.44	0.04	0.18
				TOTAL	0.18

Pellet Cooler

Hazardous Air Pollutant	% of VOC that is HAP	VOC Emission Rate (lb/hr)	Uncontrolled Emission Rate (lb/hr)	Controlled Emission Rate (lb/hr)	Controlled Emission Rate (ton/yr)
Acetaldeyde	-	2.66	0.00	-	-
Formaldehyde	-	2.66	0.00	-	-
Methanol	1.71%	2.66	0.05	0.001	0.01
				TOTAL	0.01

Thermal Treatment System

Hazardous Air Pollutant	% of VOC that is HAP	VOC Emission Rate (lb/hr)	Uncontrolled Emission Rate (lb/hr)	Controlled Emission Rate (lb/hr)	Controlled Emission Rate (ton/yr)
Acetaldeyde	18.63%	445.06	82.9	2.49	10.35
Formaldehyde	0.15%	445.06	0.7	0.02	0.08
Methanol	25.72%	445.06	114.5	3.43	14.29
				TOTAL	24.72

Notes:
1. Controlled emission rate based on 97 percent destruction in the RTO.

SUPPORTING CALCULATIONS
CONCENTRATION OF VOC IN PELLET COOLER EXHAUST

Thermogen I, LLC
Millinocket, Maine

Given

VOC emission rate:	2.66 lb/hr
Total Flow rate:	60,000 ft3/min
Temperature:	110 F
Assumed MW of VOC:	44.10 lb/lb-mol

Calculated

Temperature (R):	569.7 R
VOC Emission Rate (lb/min):	0.0443 lb/min

Volume of VOC

0.0443 lb/min	x	0.7302 ft3-atm/lb-mol/R	x	1 atm	x	569.7 R	÷	44.10 lb/lb-mol
	=	0.4182 ft3/min						

Concentration in ppm

0.4182 ft3/min	÷	60,000 ft3/min	x	1,000,000	=	6.97 ppmv

SUPPORTING CALCULATIONS
AMBIENT IMPACTS OF METALS

Thermogen I, LLC
Millinocket, Maine

Although there are no ambient standards, it is necessary to calculate ambient impacts of metals for the purposes of the PSD monitoring waiver. Metals were not modeled independently. Ambient impacts were evaluated by scaling the PM10 impacts for the boiler and dust burner/dryer based on relative emission rates.

PM_{10} emission rate for boiler:	0.298 lb/hr	
PM_{10} impacts for boiler:	1.967 ug/m3	High, Second High
PM_{10} emission rate for oxidizer stack	3.584 lb/hr	
PM_{10} impacts for oxidizer stack:	2.067 ug/m3	High Second High

Lead

Oxidizer stack (from dust burner/dryer)								
160 MMBTU/hr	x	5.8E-06 lb/MMBTU	=	0.00093 lb/hr	÷	3.584 lb/hr	=	0.0259%
0.0259%	x	2.067 ug/m3	=	0.000535 ug/m3				
		Total Impacts:		0.000535 ug/m3				

Mercury

Boiler								
42.6 MMBTU/hr	x	2.5E-07 lb/MMBTU	=	0.00001086 lb/hr	÷	0.298 lb/hr	=	0.00364%
0.003641%	x	2.067 ug/m3	=	0.000075 ug/m3				
Oxidizer stack (from dust burner/dryer)								
160 MMBTU/hr	x	9.9E-06 lb/MMBTU	=	0.00158 lb/hr	÷	3.584 lb/hr	=	0.0442%
0.0442%	x	2.067 ug/m3	=	0.000913 ug/m3				
		Total Impacts:		0.000989 ug/m3				

Beryllium

Boiler								
42.6 MMBTU/hr	x	1.2E-08 lb/MMBTU	=	0.00000050 lb/hr	÷	0.298 lb/hr	=	0.000168%
0.000168%	x	2.067 ug/m3	=	0.000003 ug/m3				
Oxidizer stack (from dust burner/dryer)								
160 MMBTU/hr	x	1.9E-06 lb/MMBTU	=	0.00030 lb/hr	÷	3.584 lb/hr	=	0.00848%
0.0085%	x	2.067 ug/m3	=	0.000175 ug/m3				
		Total Impacts:		0.000179 ug/m3				

Chromium

Boiler								
42.6 MMBTU/hr	x	1.4E-06 lb/MMBTU	=	0.00005847 lb/hr	÷	0.298 lb/hr	=	0.0196%
0.019608%	x	2.067 ug/m3	=	0.000405 ug/m3				
Oxidizer stack (from dust burner/dryer)								
160 MMBTU/hr	x	6.0E-07 lb/MMBTU	=	0.00010 lb/hr	÷	3.584 lb/hr	=	0.0027%
0.0027%	x	2.067 ug/m3	=	0.000055 ug/m3				
		Total Impacts:		0.000461 ug/m3				

APPENDIX C

RBLC OUTPUT FOR OSB DRYERS

COMPREHENSIVE REPORT
Report Date:06/09/2014

Facility Information

RBLC ID:	VT-0037 (final)	**Date Determination Last Updated:**	10/17/2012
Corporate/Company Name:	BEAVER WOOD ENERGY FAIR HAVEN, LLC	**Permit Number:**	AP-11-015
Facility Name:	BEAVER WOOD ENERGY FAIR HAVEN	**Permit Date:**	02/10/2012 (actual)
Facility Contact:	THOMAS EMERO 508-321-1181	**FRS Number:**	110045007684
Facility Description:	THE FACILITY IS A PROPOSED 34 MW (GROSS) WOOD FIRED EGU CO-LOCATED WITH A 115,000 TON/YR WOOD PELLET MANUFACTURING PLANT.	**SIC Code:**	4911
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	221119
Permit URL:	http://www.anr.state.vt.us/air/Permitting/docs/ap01015a.pdf		
EPA Region:	1	**COUNTRY:**	USA
Facility County:	RUTLAND		
Facility State:	VT		
Facility ZIP Code:	05261		
Permit Issued By:	VERMONT AIR POLLUTION CONTROL DIVISION (Agency Name) MR. DOUG ELLIOTT(Agency Contact) (802) 241-3845 doug.elliott@state.vt.us		
Permit Notes:	A PERMIT EXTENSION WAS ISSUED ON 8/5/2013. THE CONSTRUCTION PERMIT IS NOW VALID UNTIL 2/10/2015.		

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
CLASS1	NH	Great Gulf	100km - 50km
CLASS1	VT	Lye Brook	< 100 km
CLASS1	NH	Presidential Range-Dry River	100km - 50km
INTL BORDER		US/Canada Border	100km - 50km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	190.5000 (Tons/Year)
Nitrogen Oxides (NOx)	99.9000 (Tons/Year)
Particulate Matter (PM)	83.1000 (Tons/Year)
Sulfur Oxides (SOx)	43.2000 (Tons/Year)
Volatile Organic Compounds (VOC)	49.9000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: Main Boiler

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: wood

Throughput: 482.00 MMBTU/H

Process Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 0.0300 LB/MMBTU 12-MONTH ROLLING AVERAGE

Emission Limit 2: 0.0600 LB/MMBTU HOURLY AVERAGE

Standard Emission: 0.3300 LB/MMBTU 8-HOUR AVERAGE - STARTUP LIMIT

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) Good combustion control and a Multi Pollutant Catalytic Reactor (NOx SCR)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: Due to the combined NOx emissions from the Main Boiler and the pellet manufacturing operation, the applicant has proposed an annual NOx limit of 0.030 lb/MMBtu in order to keep the facility's total NOx emissions to less than 100 tons/year and to avoid NOx credits.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 0.0750 LB/MMBTU 24-HR ROLLING AVERAGE

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) Good combustion control and a Multi Pollutant Catalytic Reactor (oxidation catalyst)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0200 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Use of low sulfur fuel (wood)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: The start up fuel is ULSD.

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0190 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) Multi-cyclones and ESP
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Other
Other Test Method: Method 5, assumes all PM is PM10
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0120 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: NSPS , MACT
Control Method: (A) Multi-cyclones and ESP
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 18
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0050 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) Good combustion control and a Multi Pollutant Catalytic Reactor (oxidation catalyst).
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Dioxide Equivalent (CO2e)
CAS Number: CO2e
Test Method: Other
Other Test Method: CEMS for CO2, emission factors for N2O and CH4.
Pollutant Group(s): (Greenhouse Gasses (GHG))
Emission Limit 1: 2993.0000 LB/MW GROSS ELEC OUT 30-DAY ROLLING AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Implementing energy efficiency and good operating and maintenance practices.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: GHG emission limit is 2993 lb CO2e per MW of gross electric output.

Process/Pollutant Information

PROCESS NAME: Pellet Plant - burner & rotary dryer
Process Type: 30.999 (Other Wood Products Industry Sources)
Primary Fuel: wood
Throughput: 115000.00 T/YR

Process Notes: Throughput is for finished wood pellet product. There is a wood fired heating unit, using a Coen LowNOx burner rated at 30 MMBtu/hr used to provide hot air/exhaust for the drying of wood in the rotary dryer. Additional drying heat for the rotary dryer will come from a portion of the exhaust gas from the Main Boiler at the facility.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 0.3500 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Coen Low NOx burner and good combustion controls
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 0.3500 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Coen Low NOx burner and good combustion controls
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2000 LB/ODT HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Fabric filter
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: Emission limit is lb PM per oven dry ton of wood output from the rotary dryer.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Other
Other Test Method: Method 5, assume all PM is PM10
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0050 GR/DSCF HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) Fabric filter
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0250 LB/MMBTU HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Use of low sulfur fuel (wood)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 18
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.6900 LB/ODT HOURLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) Good combustion control in the burner unit, and limiting the inlet temperature to the rotary dryer.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: The limit is lbs of VOC per oven dry ton of wood output from the rotary dryer. Dryer inlet temperature limit will be established in the operating permit.

POLLUTANT NAME: Carbon Dioxide Equivalent (CO2e)

CAS Number: CO2e
Test Method: Other
Other Test Method: Calculation based on fuel usage
Pollutant Group(s): (Greenhouse Gasses (GHG))
Emission Limit 1: 427.0000 LB/T MONTHLY AVERAGE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) The use of waste heat from the Main Boiler to provide approximately 30% of the energy for drying the wood used in manufacturing pellets.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: The limit is to be phased in over three years.

Facility Information

RBLC ID: VA-0298 (final)
Corporate/Company Name: INTERNATIONAL BIOFUELS, INC
Facility Name: INTERNATIONAL BIOFUELS, INC
Facility Contact: AUGUST WALLMEYER 8047884931
Facility Description: MANUFACTURE OF WOOD PELLETS NO COATINGS
Permit Type: A: New/Greenfield Facility
Permit URL:

Date Determination
Last Updated: 09/17/2007
Permit Number: 52125
Permit Date: 12/13/2005 (actual)
FRS Number: 110022573375
SIC Code: 5211
NAICS Code: 321999

EPA Region: 3 **COUNTRY:** USA

Facility County: GREENSVILLE

Facility State: VA

Facility ZIP Code: 23847

Permit Issued By: VIRGINIA DEPT. OF ENVIRONMENTAL QUALITY; DIVISION OF AIR QUALITY (Agency Name)
MR. YOGESH DOSHI(Agency Contact) (804)698-4017 Yogesh.doshi@deq.virginia.gov

Other Agency Contact Info: FOR TECHNICAL INFORMATION ABOUT THIS FACILITY, PLEASE CONTACT REBEKAH REMICK WHO MAY BE REACHED AT 804-527-5128 OR E-MAILED AT RJREMICK@DEQ.VIRGINIA.GOV

Permit Notes:

Process/Pollutant Information

PROCESS NAME: HEAT ENERGY SYSTEMS FOR PELLET PROCESSING

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD/WOODPASTE

Throughput: 77.00 MMBTU/H

Process Notes: 2 HEAT ENERGY SYSTEMS. THE EMISSIONS ARE FOR 1 OF 2 SYSTEMS. CONTROL EFFICIENCY % FOR SETTING CHAMBERS 20% EACH, CYCLONES 90% THERMAL OXIDIZERS 99% EACH

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 6.9000 LB/H

Emission Limit 2: 28.4000 T/YR

Standard Emission: NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) SETTING CHAMBERS AND CYCLONES

Est. % Efficiency: 90.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF TWO UNITS

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 6.2000 LB/H

Emission Limit 2: 25.4000 T/YR

Standard Emission: NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) SETTING CHAMBERS AND CYCLONES

Est. % Efficiency: 90.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF 2 SYSTEMS

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 3.9000 LB/H

Emission Limit 2: 15.9000 T/YR

Standard Emission: NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) THERMAL OXIDERS AND CEM SYSTEM

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF TWO UNITS

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 0.2200 LB/MMBTU
Emission Limit 2: 139.5000 T/YR
Standard Emission: 0.2200 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) THERMAL OXIDIZERS AND CEM SYSTEM
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF TWO UNITS

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 0.1900 LB/MMBTU
Emission Limit 2: 120.4000 T/YR
Standard Emission: 0.1900 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) THERMAL OXIDIZERS AND CEM SYSTEM
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSONS ARE FOR ONE OF TWO UNITS

Process/Pollutant Information

PROCESS NAME: WOOD THERMAL OXIDERS FOR WOOD PELLENT PROCESS

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD/WOOD PASTE

Throughput: 43.00 MMBTU/H

Process Notes: EMISSIONS ARE FOR ONE OF TWO UNITS. CONTROL EFFICIENCY % FOR SETTING CHAMBERS 20% EACH, CYCLONES 90% THERMAL OXIDIZERS 99% EACH

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 18.9000 LB/H
Emission Limit 2: 77.9000 T/YR
Standard Emission: 0.2200 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) THERMAL OXIDIZERS AND CEM SYSTEM
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF 2 OXIDIZERS

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 3.4000 LB/H

Emission Limit 2: 14.2000 T/YR
Standard Emission: NOT AVAILABLE
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) SETTING CHAMBER AND CYCLONES
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF TWO OXIDIZERS

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 3.9000 LB/H
Emission Limit 2: 15.9000 T/YR
Standard Emission: NOT AVAILABLE
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) SETTING CHAMBER AND CYCLONE
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF 2 OXIDIZERS

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 2.2000 LB/H

Emission Limit 2: 8.9000 T/YR

Standard Emission: NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) THERMAL OXIDIZERS AND CEM SYSTEM

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF 2 OXIDIZERS

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 16.3000 LB/H

Emission Limit 2: 67.3000 T/YR

Standard Emission: 0.1900 LB/MMBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) THERMAL OXIDIZERS AND CEM SYSTEM

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSIONS ARE FOR ONE OF 2 OXIDIZERS

Process/Pollutant Information

PROCESS NAME: RAW MATERIAL UNLOADING

Process Type: 30.999 (Other Wood Products Industry Sources)

Primary Fuel: WOOD/WOOD PASTE

Throughput: 121.00 T/H

Process Notes: THE RAW MATERIALS UNLOADING SHALL PROCESS NO MORE THAN 949,168 TONS (50% MOISTURE) WOOD PER YEAR, CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12-MONTH PERIOD COMPLIANCE OF THE CONSECUTIVE 12-MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 12.1000 LB/H

Emission Limit 2: 47.5000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 12.1000 LB/H

Emission Limit 2: 47.5000 TYR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PEANUT HULL UNLOADING

Process Type: 30.999 (Other Wood Products Industry Sources)

Primary Fuel: WOOD

Throughput: 3.00 T/H

Process Notes: THE PEANUT HULL UNLOADING SHALL PROCESS NO MORE THAN 20,000 TONS (50%MOISTURE) WOOD PER YEAR, CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12-MONTH PERIOD. COMPLIANCE FOR THE CONSECUTIVE 12-MONTH PERIOD DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6000 LB/H
Emission Limit 2: 2.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.6000 LB/H

Emission Limit 2: 2.0000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRIMARY GRIND HAMMERMILLS

Process Type: 30.999 (Other Wood Products Industry Sources)

Primary Fuel: WOOD

Throughput: 121.00 T/H

Process Notes: THE PRIMARY GRIND HAMMERMILLS SHALL PROCESS NO MORE THAN 949,168 TONS (50% MOISTURE) WOOD PER YEAR, CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12-MONTH PERIOD. COMPLIANCE FOR THE CONSECUTIVE 12-MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 14.5000 LB/H

Emission Limit 2: 57.0000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	SIP , OPERATING PERMIT
Control Method:	(B) SETTING CHAMBERS AND CYCLONES AND CEM SYSTEM
Est. % Efficiency:	90.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	EMISSIONS ARE FOR ONE OF THREE HAMMERMILLS

POLLUTANT NAME:	Particulate matter, filterable < 10 µ (FPM10)
CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	14.5000 LB/H
Emission Limit 2:	57.0000 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	SIP , OPERATING PERMIT
Control Method:	(B) SETTING CHAMBERS AND CYCLONES CEM SYSTEM
Est. % Efficiency:	90.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	EMISSIONS ARE FOR ONE OF 3 HAMMERMILLS

Process/Pollutant Information

PROCESS NAME:	ROTARY AND FUEL DRYER PROCESSING
Process Type:	30.999 (Other Wood Products Industry Sources)

Primary Fuel: WOOD

Throughput: 65.60 T/H

Process Notes: THE ROTARY DRYERS SHALL PROCESS NO MORE THAN 347,698 DRY TONS WOOD PER YEAR FORM THE OUTLET OF THE DRYERS, CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12 MONTH PERIOD. THE ROTARY DRYERS SHALL DRY WOOD WITH AN OVERALL COMPOSITION OF LESS THAN 50% SOFT WOOD. COMPLIANCE FOR THE CONSECUTIVE 12 MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS. THE FUEL DRYER SHALL PROCESS NO MORE THAN 173,849 DRY TONS WOOD PER YEAR FROM THE OUTLET OF THE FUEL DRYER CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12 MONTH PERIOD. THE FUEL DRYER SHALL DRY WOOD WITH AN OVERALL COMPOSITION OF LESS THAN 50% SOFT WOOD. COMPLIANCE FO THE CONSECUTIVE 12 MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Acetylene

CAS Number: 74-86-2

Test Method: Unspecified

Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))

Emission Limit 1: 1.4000 LB/H

Emission Limit 2: 5.2000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) WOOD FIRED THERMAL OXIZADERS FOR ROTARY DRYERS

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 2.2000 LB/H

Emission Limit 2: 8.4000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) WOOD FIRED THERMAL OXIZIDERS FOR ROTARY DRYERS
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME: Methanol

CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4000 LB/H
Emission Limit 2: 5.1000 T/YR
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) WOOD FIRED THERMAL OXIZIDERS FOR THE ROTARY DRYERS
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 13.1000 LB/H
Emission Limit 2: 52.2000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) SETTING CHAMBERS AND CYCLONES AND CEM SYSTEM

Est. % Efficiency: 90.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR 2 DRYERS AND ONE FUEL DRYER

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 13.1000 LB/H

Emission Limit 2: 52.2000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) SETTING CHAMBERS AND CYCLONES CEM SYSTEM

Est. % Efficiency: 90.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR THE 2 DRYERS AND 1 FUEL DRYER

POLLUTANT NAME: Phenol

CAS Number: 108-95-2

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.2000 LB/H

Emission Limit 2: 0.7000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) THERMAL OXIZIDERS FOR THE ROTARY DRYERS
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME: Toluene

CAS Number: 108-88-3
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1000 LB/H
Emission Limit 2: 0.5000 T/YR
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) WOOD FIRED THERMAL OXIZIDERS FOR THE ROTARY DRYERS
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 37.8000 LB/H
Emission Limit 2: 141.9000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	SIP , OPERATING PERMIT
Control Method:	(B) WOOD FIRED THERMAL OXIZIDERS FOR ROTARY DRYERS
Est. % Efficiency:	99.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	EMISSION LIMITS ARE COMBINED FOR ALL DRYERS

POLLUTANT NAME:	o-Xylene
CAS Number:	1330-20-7
Test Method:	Unspecified
Pollutant Group(s):	(Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1:	0.1000 LB/H
Emission Limit 2:	0.5000 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	SIP , OPERATING PERMIT
Control Method:	(B) WOOD FIRED THERMAL OXIZIDERS FOR THE ROTARY DRYERS
Est. % Efficiency:	99.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	EMISSIONS ARE COMBINED FOR ALL DRYERS

Process/Pollutant Information

PROCESS NAME:	4 FINAL GRIND HAMMERMILL PROCESSING
Process Type:	30.999 (Other Wood Products Industry Sources)
Primary Fuel:	WOOD

Throughput: 52.00 T/H

Process Notes: THE FINAL GRIND HAMMERMILLS SHALL PROCESS NO MORE THATN 404,545 DRY TONS WOOD PER YEAR CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12 MONTH PERIOD. COMPLIANCE FOR THE CONSECUTIVE 12 MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.0000 LB/H

Emission Limit 2: 4.1000 T/YR

Standard Emission: 0.0100 GR/DSCF

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements: OPERATING PERMIT , SIP

Control Method: (B) BAGHOUSE

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL HAMMERMILLS

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.0000 LB/H

Emission Limit 2: 4.1000 T/YR

Standard Emission: 0.0100 GR/DSCF

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (B) BAGHOUSE

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PELLET MILLS PROCESSING

Process Type: 30.999 (Other Wood Products Industry Sources)

Primary Fuel: WOOD

Throughput: 51.00 T/YR

Process Notes: THE PELLET MILLS1 THROUGH 16 SHALL PROCESS NO MORE THAN 395,836 DRY TONS WOOD PER YEAR CALCULATED MONTHLY AS THE SUM OF EACH CONSECUTIVE 12 MONTH PERIOD. COMPLIANCE FOR THE CONSECUTIVE 12 MONTH PERIOD SHALL BE DEMONSTRATED MONTHLY BY ADDING THE TOTAL FOR THE MOST RECENTLY COMPLETED CALENDAR MONTH TO THE INDIVIDUAL MONTHLY TOTALS FOR THE PRECEDING 11 MONTHS.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.2000 LB/H
Emission Limit 2: 39.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) CYCLONES
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL PELLET MILLS

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.2000 LB/H
Emission Limit 2: 39.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (B) CYCLONES
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSION LIMITS ARE COMBINED FOR ALL 16 PELLET MILLS

COMPREHENSIVE REPORT
Report Date:04/22/2014

Facility Information

RBLC ID:	LA-0253 (final)	**Date Determination Last Updated:**	12/12/2011
Corporate/Company Name:	MARTCO LIMITED PARTNERSHIP	**Permit Number:**	PSD-LA-710(M1)
Facility Name:	OAKDALE OSB PLANT	**Permit Date:**	08/22/2011 (actual)
Facility Contact:	NATALIE MONROE (318) 448-0405 NATALIE.MONROE@ROYOMARTIN.COM	**FRS Number:**	110022291107
Facility Description:		**SIC Code:**	2493
Permit Type:	C: Modify process at existing facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	ALLEN		
Facility State:	LA		
Facility ZIP Code:	71463		

Permit Issued By: LOUISIANA DEPARTMENT OF ENV QUALITY (Agency Name)
MR. BRYAN D. JOHNSTON(Agency Contact) (225)219-3450 BRYAN.JOHNSTON@LA.GOV

Other Agency Contact Info: PERMIT WRITER: MS. SHANNON PUSATERI, (225) 219-3417

Permit Notes: PERMIT UPDATES CO EMISSIONS FOR THE FACILITY'S 3 REGENERATIVE THERMAL OXIDIZERS (RTO-1, RTO-2, & RTO-3) APPLICATION ACCEPTED RECEIVED DATE = DATE OF ADMINISTRATIVE COMPLETENESS REVISED APPLICATION RECEIVED ON 12/08/09.

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	545.2300 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: ROTARY DRYER NOS. 1-3

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD

Throughput: 211050.00 ODT/YR EA.

Process Notes: HEAT TO THE THREE DRYERS (174 MM BTU/HR EA.) IS PROVIDED BY 2 WOOD-FIRED FURNACES. THE DRYERS ARE ALSO EQUIPPED WITH NATURAL GAS BURNERS (150 MM BTU/HR) THAT ARE USED WHEN THE FURNACES ARE DOWN.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 50.8800 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission: 2.1100 LB/ODT
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) REGENERATIVE THERMAL OXIDIZERS (RTOS) ARE BACT FOR CO EMISSIONS FROM THE ROTARY DRYERS.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes: ODT = OVEN DRIED TONS OF WOOD

Facility Information

RBLC ID: SC-0115 (final)

Date Determination Last Updated: 10/16/2012

Corporate/Company Name: GP CLARENDON LP

Permit Number: 0680-0046-CB

Facility Name: GP CLARENDON LP

Permit Date: 02/10/2009 (actual)

Facility Contact: STEPHEN B. ELLINGSON, PHD SYSNULL SBELLING@GAPAC.COM

FRS Number: 110040507742

Facility Description: GP PRODUCES ORIENTED STRAND BOARD (OSB). FACILITY WAS ORIGINALLY PERMITTED AS A SYNTHETIC MINOR FACILITY AND BEGAN CONSTRUCTION. SISTER FACILITY IN ALLENDALE BEGAN OPERATION BEFORE CLARENDON CONSTRUCTION WAS COMPLETE. IT WAS DISCOVERED THROUGH SOURCE TESTING THAT THE ALLENDALE FACILITY HAD MAJOR PSD SOURCE EMISSIONS. CONSTRUCTION ON CLARENDON HAD STOPPED AND HAS NOT BEEN COMPLETED AS OF MAY 2012. PSD CONSTRUCTION PERMIT WAS ISSUED TO CLARENDON ALSO.

SIC Code: 2493

Permit Type: A: New/Greenfield Facility

NAICS Code: 321219

Permit URL:

EPA Region: 4

COUNTRY: USA

Facility County: CLARENDON

Facility State: SC

Facility ZIP Code: 29102

Permit Issued By: SOUTH CAROLINA DEPT OF HEALTH & ENV CTRL, BUREAU OF AIR QUALITY (Agency Name)
MR. DENNIS CAMIT(Agency Contact) (803)898-4284 camitdr@dhec.sc.gov

Other Agency Contact Info: JAMES M. MYERS
803-898-4123

Permit Notes: FACILITY WAS ORIGINALLY PERMITTED AS A SYNTHETIC MINOR FACILITY AND BEGAN CONSTRUCTION. SISTER FACILITY IN ALLENDALE BEGAN OPERATION BEFORE CLARENDON CONSTRUCTION WAS COMPLETE. IT WAS DISCOVERED THROUGH SOURCE TESTING THAT THE ALLENDALE FACILITY HAD MAJOR PSD SOURCE EMISSIONS. CONSTRUCTION ON CLARENDON HAD STOPPED AND HAS NOT BEEN COMPLETED AS OF MAY 2012. PSD CONSTRUCTION PERMIT WAS ISSUED TO CLARENDON ALSO.

Process/Pollutant Information

PROCESS NAME: 334 MILLION BTU/HR WOOD FIRED FURNACE #2

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 334.00 MMBTU/H

Process Notes: THIS FURNACE IS USED TO HEAT THE FLAKE DRYERS AND THE THERMAL OIL SYSTEM.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: 197 MILLION BTU/HR WOOD FIRED FURNACE

Process Type: 12.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 197.00 MMBTU/H

Process Notes: THIS FURNACE IS USED TO HEAT THE FINES DRYER.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD COMBUSTION PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: 75 MILLION BTU/HR BACKUP THERMAL OIL HEATER

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 75.00 MMBTU/H

Process Notes: THE THERMAL OIL HEATER IS A STAND-ALONE NATURAL GAS FIRED HEATER USED TO PROVIDE HEAT ENERGY IN THE PLANT WHEN THE PRIMARY THERMAL OIL SYSTEM IS LIMITED OR OUT OF SERVICE AS A RESULT OF MALFUNCTION OR MAINTENANCE.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5400 LB/H

Emission Limit 2: 2.3800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR PM EMISSIONS.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.5400 LB/H
Emission Limit 2: 2.3800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR PM10 EMISSIONS.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 3.5700 LB/H
Emission Limit 2: 15.6400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) THE USE OF LOW NOX BURNERS WILL BE USED AS CONTROL FOR NOX EMISSIONS FROM THE THERMAL OIL HEATER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO_2)

CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.1900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR SO2 EMISSIONS.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 6.0000 LB/H
Emission Limit 2: 26.2800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.3900 LB/H
Emission Limit 2: 1.7200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR VOC EMISSIONS.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ROTARY FLAKE DRYER #1
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput: 95000.00 OVEN DRY/H
Process Notes: COMBUSTION EXHAUST FROM THE FURNACES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR SO2 EMISSIONS.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 116.3900 LB/H
Emission Limit 2: 399.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: ROTARY FLAKE DRYER #2
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput: 95000.00 LB/H OVEN DRY
Process Notes: COMBUSTION EXHAUST FROM THE FURANCES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 116.3900 LB/H
Emission Limit 2: 399.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

Process/Pollutant Information

PROCESS NAME: ROTARY FINES DRYER
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput: 75000.00 LB/H OVEN DRY
Process Notes: COMBUSTION EXHAUST FROM THE FURNACES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: MULTI-OPENING PRESS

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput: 1200000.00 MSF 3/8"/YR

Process Notes: THE TWO LARGER FURNACES INDIRECTLY HEAT OIL FOR USE IN THE MULTI-OPENING PRESS. THE PRESS ENCLOSURE MUST DEMONSTRATE 100% CAPTURE EFFICIENCY THROUGH A WOOD PRODUCTS ENCLOSURE DEMONSTRATION. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOC): POWDER PHENOLIC RESIN - 0.2%; LIQUID PEHNOLIC RESIN - 0.2% FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0.0%; LIQUID PEHNOLIC RESIN - 0.6%

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: STRANDING, WET SCREENING AND WET STORAGE (ID 09)

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0

Process Notes: STRANDERS (AKA. FLAKERS) ARE USED TO CUT TREE-LENGTH LOGS INTO THE STRANDS THAT ARE USED TO MAKE OSB. THE STRANDS ARE THEN STORED IN WET STORAGE BINS UNTIL THEY ARE SCREENED IN THE WET SCREENING PROCESS TO SEPARATE THE FINES FROM THE STRANDS.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1900 LB/H
Emission Limit 2: 44.6300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) THREE BAGHOUSES WHICH ALL VENT TO ONE STACK.
Est. % Efficiency: 99.900
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0078GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 185.8100 LB/H
Emission Limit 2: 637.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO SPECIFIED. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: FORMING AND BLENDING (ID10)

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0

Process Notes: THE DRIED STRANDS ARE METERED OUT OF THE DRY STRAND STOARGE BINS ONTO WEIGH BELTS WHICH CONTROL THE AMOUNT OF RESIN AND WAX ADDED TO ONE OF FOUR BLENDERS. IN THE BLENDERS, RESIN AND WAX (EITHER SLACK OR EMULSIFIED WAX) ARE ATOMIZED TO ENSURE EVEN DISTRIBUTION. AFTER BLENDING, THE RESINATED STRANDS ARE CONVEYED TO DISTRIBUTION BINS LOCATED AT THE MAT FORMING LINE JUST BEFORE THE PRESS. THREE BAGHOUSES ARE USED TO CONTROL PM, PM10 EMISSIONS FROM THESE SOURCES. ALL THREE BAGHOUSES VENT TO ONE STACK. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. POWDER PHENOLIC RESIN FREE FORMALDEHYDE (HCOH) - 0.2% FREE METHANOL (MEOH) - 0.0% LIQUID PHENOLIC RESIN: FREE FORMALDEHYDE (HCOH) - 0.2% FREE METHANOL (MEOH) - 0.6%

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 79.7800 LB/H

Emission Limit 2: 273.5300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI CI/WP - 98.01 TEST METHOD ALSO. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 11.6300 LB/H

Emission Limit 2: 50.9600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) THREE BAGHOUSES VENT TO A COMMON STACK.

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0078GR/DSCF. THE 11.63 LB/HR IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 UNITS/HR. THE 50.96 TPY LIMIT IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 UNITS/YR.

Process/Pollutant Information

PROCESS NAME: DRY SCREENING AND DRY STORAGE EQUIPMENT (ID 11)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 0

Process Notes: DRIED STRAND FROM THE DRYERS ARE SCREENED TO SEPARATE THE FINES FROM THE STRANDS AND ARE STORED IN DRY STORAGE BINS. RESIN US IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. POWDER PHENOLIC RESIN: FREE FORMALDEHYDE (HCOH)- 0.2% FREE METHANOL (MEOH) - 0.0% LIQUID PHENOLIC RESIN FREE FORMALDEHYDE (HCOH)- 0.2% FREE METHANOL (MEOH) - 0.6%

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 6.5500 LB/H

Emission Limit 2: 22.4700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BEUSED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 3.2400 LB/H

Emission Limit 2: 14.2100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE WILL CONTROL EMISSIONS.

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0078GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: FINISHING AND SANDING EQUIPMENT

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 0

Process Notes: FROM THE PRESS UNLOADER SYSTEM, INDIVIDUAL RAW MASTER PANELS ARE FED TO THE FINISHING END THROUGH A SERIES OF CONVEYORS. THE MASTER RAW PANELS ARE TRIMMED TO SIZE, SANDED, STACKED, EDGE SEALED, AND STRAPPED FOR SHIPMENT. HE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOC): POWDER PHENOLIC RESIN - 0.2%; LIQUID PEHNOLIC RESIN - 0.2% FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0.0%; LIQUID PEHNOLIC RESIN - 0.6%

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 6.5100 LB/H

Emission Limit 2: 22.3200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI CI/WP-98.01 METHOD ALSO SPECIFIED. THE BACT EMISSION LIMITS WILL BE ESTABLISHED AT 5.53 LB/HR AND 18.97 TPY FOR VOC EMISSIONS VENTING FROM STACK D1, AND 6.51 LB/HR AND 22.32 TPY FOR VOC EMISSIONS VENTING FROM STACK D1A. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 5.9900 LB/H

Emission Limit 2: 26.2500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) TWO BAGHOUSES, WHICH VENT TO TWO DIFFERENT STACKS WILL CONTROL EMISSIONS.

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THE BACT EMISSION LIMITS WILL BE ESTABLISHED AT 5.09 LB/HR AND 22.31 TPY FOR PM EMISSIONS VENTING FROM STACK D1 AND 5.99 LB/HR AND 26.25 TPY FOR PM EMISSIONS VENTING FROM STACK D1A. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0078GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: PAINT BOOTH AND STENCILS

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0

Process Notes: THE PAINT BOOTH OPERATION UTILIZES COATINGS THAT CONTAIN VOC AND INVOLVES APPLICATION OF COATINGS TO THE OSB. IN ADDITION TO VOC EMISSIONS, COATING PROCESSES EMIT PM. HOWEVER, SINCE THE PAINT BOOTH STACKS EXHAUST INSIDE THE BUILDING, THERE ARE NO PM EMISSIONS RELEASED TO THE ATMOSPHERE FROM THE PAINT BOOTHS.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 9.2400 LB/H

Emission Limit 2: 40.4500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SCHEDULED INSPECTIONS AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN WILL BE PERFORMED COUPLED WITH PAINT BOOTH DESIGN AND PERMFORMANCE TO MINIMIZE VOC EMISSIONS, INCLUDING THE USE OF LOW-VOC COATINGS AND MINIMAL OVERSPRAY.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI CI/WP 98.01 METHOD ALSO SPECIFIED. THE LIMITS ESTABLISHED BY BACT ARE FOR A COMBINED TOTAL FROM BOTH OF THE PAINT BOOTHS (PB1 AND PB2).

Process/Pollutant Information

PROCESS NAME: PROPANE VAPORIZERS (ID 14)

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: PROPANE

Throughput: 5.00 MMBTU/H

Process Notes: 1 - PROPANE VAPORIZER, (3.0 MILLION BTU/HR - FUEL VAPORIZER) 1 - PROPANE VAPORIZER, (5.0 MILLION BTU/HR - RTO BACKUP)

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 1.2000 LB/H
Emission Limit 2: 1.2000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes: THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.1500 LB/H

Emission Limit 2: 0.1500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 0.1700 LB/H

Emission Limit 2: 0.1700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

Process/Pollutant Information

PROCESS NAME: FIRE WATER DIESEL PUMP
Process Type: 17.110 (Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel))
Primary Fuel: DIESEL
Throughput: 525.00 HP
Process Notes: THE FIRE PUMP IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: EPA/OAR Mthd 5 and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.4100 LB/H
Emission Limit 2: 0.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.4100 LB/H
Emission Limit 2: 0.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 5.9000 LB/H
Emission Limit 2: 1.4700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.3900 LB/H

Emission Limit 2: 0.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 1.2700 LB/H

Emission Limit 2: 0.3200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.4700 LB/H

Emission Limit 2: 0.1200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

Process/Pollutant Information

PROCESS NAME: DIESEL EMERGENCY GENERATOR

Process Type: 17.110 (Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel))

Primary Fuel: DIESEL

Throughput: 1400.00 HP

Process Notes: THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES. THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2500 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2000 LB/H
Emission Limit 2: 0.0500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 5.4000 LB/H

Emission Limit 2: 1.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL EMERGENCY GENERATOR ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 3.0300 LB/H

Emission Limit 2: 0.7600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL EMERGENCY GENERATOR ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.3200 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL EMERGENCY GENERATOR ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 11.4100 LB/H
Emission Limit 2: 2.8500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL EMERGENCY GENERATOR ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

Process/Pollutant Information

PROCESS NAME: NATURAL GAS SPACE HEATERS - 14 UNITS (ID 17)

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 20.89 MMBTU/H

Process Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.0100 LB/H

Emission Limit 2: 0.0500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 1.6700 LB/H

Emission Limit 2: 7.3200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1100 LB/H
Emission Limit 2: 0.4800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: EPA/OAR Mthd 5D and 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1500 LB/H

Emission Limit 2: 0.6600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.1500 LB/H

Emission Limit 2: 0.6600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 1.9900 LB/H

Emission Limit 2: 8.7100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: STORAGE TANKS
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 0
Process Notes: THE VARIOUS STORAGE TANKS WILL STORE RESINS, WAX, DIESEL FUEL, GASOLINE, MDI AND CATALYST. 12 TANKS TOTAL.

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1600 LB/H
Emission Limit 2: 0.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE BACT EMISSION LIMITS FOR THE TANKS WILL BE ESTABLISHED AS FOLLOWS: - FOR TANKS 1 - 9, THE COMBINED LIMIT WILL BE 0.16 LB/HR AND 0.70 TPY VOC EMISSIONS. - FOR TANK 12, THE LIMIT WILL BE 0.03 LB/HR AND 0.12 TPY VOC EMISSIONS. - FOR TANKS 10 - 11, THE COMBINED LIMIT WILL BE 0.01 LB/HR AND 0.01 TPY VOC EMISSIONS.

Process/Pollutant Information

PROCESS NAME: 334 MILLION BTU/HR WOOD FIRED FURANCE #1

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 334.00 MMBTU/H

Process Notes: THIS FURNACE IS USED TO HEAT THE FLAKE DRYERS AND THERMAL OIL SYSTEM.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: EPA/OAR Mthd 5 and 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 302.1100 LB/H
Emission Limit 2: 1035.7900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 28.1400 LB/H
Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR,EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8"

BASIS/YR.

Facility Information

RBLC ID:	SC-0114 (final)	**Date Determination Last Updated:**	10/16/2012
Corporate/Company Name:	GP ALLENDALE LP	**Permit Number:**	0160-0020-CB
Facility Name:	GP ALLENDALE LP	**Permit Date:**	11/25/2008 (actual)
Facility Contact:	STEPHEN B. ELLINGSON, PHD 4046525423 SBELLING@GAPAC.COM	**FRS Number:**	110033180171
Facility Description:	GP PRODUCES ORIENTED STRAND BOARD (OSB). FACILITY WAS ORIGINALLY PERMITTED AS A SYNTHETIC MINOR FACILITY AND BEGAN CONSTRUCTION. IT WAS DISCOVERED THROUGH SOURCE TESTING THAT FACILITY HAD MAJOR PSD SOURCE EMISSIONS.	**SIC Code:**	2493
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	4	**COUNTRY:**	USA
Facility County:	ALLENDALE		
Facility State:	SC		
Facility ZIP Code:	29827		
Permit Issued By:	SOUTH CAROLINA DEPT OF HEALTH & ENV CTRL, BUREAU OF AIR QUALITY (Agency Name) MR. DENNIS CAMIT(Agency Contact) (803)898-4284 camitdr@dhec.sc.gov		
Other Agency Contact Info:	JAMES M. MYERS 803-898-4123		
Permit Notes:	FACILITY WAS ORIGINALLY PERMITTED AS A SYNTHETIC MINOR FACILITY AND BEGAN CONSTRUCTION. IT WAS DISCOVERED THROUGH SOURCE TESTING THAT FACILITY HAD MAJOR PSD SOURCE EMISSIONS.		

Process/Pollutant Information

PROCESS NAME:	334 MILLION BTU/HR WOOD FIRED FURNACE #1
Process Type:	11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))
Primary Fuel:	WOOD
Throughput:	334.00 MMBTU/H
Process Notes:	THIS FURNACE IS USED TO HEAT THE FLAKE DRYER AND THERMAL OIL SYSTEM.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM
Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS.
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YEAR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZERS (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT AND WILL CONTROL VOC EMISSIONS. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: 334 MILLION BTU/HR WOOD FIRED FURNACE #2

Process Type: 11.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 334.00 MMBTU/H

Process Notes: THIS FURNACE IS USED TO HEAT THE FLAKE DRYER AND THE THERMAL OIL SYSTEM.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 24A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK.

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

POLLUTANT NAME: Sulfur Dioxide (SO_2)

CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 28.1400 LB/H
Emission Limit 2: 117.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

Process/Pollutant Information

PROCESS NAME: 197 MILLION BTU/HR WOOD FIRED FURNACE
Process Type: 12.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))
Primary Fuel: WOOD
Throughput: 197.00 MMBTU/H
Process Notes: THIS FURNACE IS USED TO HEAT THE FINES DRYER.

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 302.1100 LB/H
Emission Limit 2: 1035.7900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THIS LIMIT APPLIES TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 28.1400 LB/H
Emission Limit 2: 117.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD COMBUSTION PRACTICES.
Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS.

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR

Process/Pollutant Information

PROCESS NAME: 75 MILLION BTU/HR BACKUP THERMAL OIL HEATER

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 75.00 MMBTU/H

Process Notes: THE THERMAL OIL HEATER IS A STAND-ALONE NATURAL GAS FIRED HEATER USED TO PROVIDE HEAT ENERGY IN THE PLANT WHEN THE PRIMARY THERMAL OIL SYSTEM IS LIMITED OR OUT OF SERVICE AS A RESULT OF A MALFUNCTION OR MAINTENANCE.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 6.0000 LB/H

Emission Limit 2: 26.2800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) POLLUTION PREVENTION OF CO EMISSIONS WILL OCCUR BY PERFORMING SCHEDULED TUNE-UPS AND INSPECTIONS AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5400 LB/H

Emission Limit 2: 2.3800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHOD 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5400 LB/H

Emission Limit 2: 2.3800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 3.5700 LB/H

Emission Limit 2: 15.6400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) LOW NOX BURNERS WILL BE USED AS CONTROLS FOR NOX EMISSIONS.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.1900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR SO2 EMISSIONS.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.3900 LB/H

Emission Limit 2: 1.7200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES WILL BE USED AS CONTROL FOR VOC EMISSIONS

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO REFERENCED.

Process/Pollutant Information

PROCESS NAME: ROTARY FLAKE DRYER #1

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput: 95000.00 LB/H OVEN DRY

Process Notes: COMBUSTION EXHAUST FROM THE FURNACES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 116.3900 LB/H
Emission Limit 2: 399.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM
Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: ROTARY FLAKE DRYER #2

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput: 95000.00 LB/H OVEN DRY

Process Notes: COMBUSTION EXHAUST FROM THE FURNACES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO_2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME:	Volatile Organic Compounds (VOC)
CAS Number:	VOC
Test Method:	EPA/OAR Mthd 25A
Pollutant Group(s):	(Volatile Organic Compounds (VOC))
Emission Limit 1:	116.3900 LB/H
Emission Limit 2:	399.0400 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.
Est. % Efficiency:	95.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME:	ROTARY FINES DRYER
Process Type:	30.530 (Board Mfg. Dryers)
Primary Fuel:	
Throughput:	75000.00 LB/H OVEN DRY

Process Notes: COMBUSTION EXHAUST FROM THE FURNACES IS USED TO PROVIDE HEAT FOR DRYING WOOD STRANDS IN THREE ROTARY DRYERS.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 119.2800 LB/H
Emission Limit 2: 408.9500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) NOX EMISSIONS CONTROLLED THROUGH A COMBINATION OF STAGED COMBUSTION AND FLUE GAS RECIRCULATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 302.1100 LB/H

Emission Limit 2: 1035.7900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO_2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: MULTI-OPENING PRESS

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput: 1200000.00 MSF/YR 3/8"

Process Notes: THE TWO LARGER FURNACES INDIRECTLY HEAT OIL FOR USE IN THE MULTI-OPENING PRESS. THE PRESS ENCLOSURE MUST DEMONSTRATE 100% CAPTURE EFFICIENCY THROUGH A WOOD PRODUCTS ENCLOSURE DEMONSTRATION. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOH): POWDER PHENOLIC RESIN - 0.2%; LIQUID PHENOLIC RESIN - 0.2 %. FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0 %; LIQUID PHENOLIC RESIN - 0.6%.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 116.3900 LB/H

Emission Limit 2: 399.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR VOC CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 58.9900 LB/H

Emission Limit 2: 227.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ELECTROSTATIC PRECIPITATORS

Est. % Efficiency: 97.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 119.2800 LB/H

Emission Limit 2: 408.9500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) NOX EMISSIONS WILL BE CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 58.9900 LB/H
Emission Limit 2: 227.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) WET ELECTROSTATIC PRECIPITATORS
Est. % Efficiency: 97.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 302.1100 LB/H
Emission Limit 2: 1035.7900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDATION (RTOS) WERE THE HIGHEST RANKED TECHNOLOGY AVAILABLE FOR CO CONTROL ON THIS UNIT. THE RTO CAPACITY IS 18 MILLION BTU/HR, EACH.
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK WITH THE CONTROLS ADDED ON THAT STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 28.1400 LB/H

Emission Limit 2: 117.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SO2 EMISSIONS CONTROLLED THROUGH GOOD OPERATING PRACTICES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THESE LIMITS APPLY TO THE ENERGY/DRYER SYSTEM AND PRESS BECAUSE THESE SOURCES VENT TO A COMMON STACK. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF 3/8" BASIS/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF 3/8" BASIS/YR.

Process/Pollutant Information

PROCESS NAME: STRANDING, WET SCREENING AND WET STORAGE (ID 09)

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0

Process Notes: STRANDERS (AKA. FLAKERS) ARE USED TO CUT TREE-LENGTH LOGS INTO THE STRANDS THAT ARE USED TO MAKE OSB. THE STRANDS ARE THEN STORED IN WET STORAGE BINS UNTIL THEY ARE SCREENED IN THE WET SCREENING PROCESS TO SEPARATE THE FINES FROM THE STRANDS.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 185.8100 LB/H
Emission Limit 2: 637.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: NCASI CI/WP - 98.01 ALSO SPECIFIED AS TEST METHOD. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM
Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1900 LB/H
Emission Limit 2: 44.6300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) TWO BAGHOUSES VENT TO A COMMON STACK

Est. % Efficiency: 99.900
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0078GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: FORMING AND BLENDING (ID 11)
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 0
Process Notes: THE DRIED STRANDS ARE METERED OUT OF THE DRY STRAND STORAGE BINS ONTO WEIGH BELTS WHICH CONTROL THE AMOUNT OF RESIN AND WAX ADDED TO ONE OF FOUR BLENDERS. IN THE BLENDERS, RESIN AND WAX (EITHER SLACK OR EMULSIFIED WAX) ARE ATOMIZED TO ENSURE EVEN DISTRIBUTION. AFTER BLENDING, THE RESINATED STRANDS ARE CONVEYED TO DISTRIBUTION BINS LOCATED AT THE MAT FORMING LINE JUST BEFORE THE PRESS. THREE BAGHOUSES ARE USED TO CONTROL PM, PM10 EMISSIONS FROM THESE SOURCES. ALL THREE BAGHOUSES VENT TO ONE STACK. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOH): POWDER PHENOLIC RESIN - 0.2%; LIQUID PHENOLIC RESIN - 0.2 %. FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0 %; LIQUID PHENOLIC RESIN - 0.6%.

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 49.8600 LB/H
Emission Limit 2: 170.9600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 3.6400 LB/H

Emission Limit 2: 15.9300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) THREE BAGHOUSES WHICH ALL VENT TO ONE STACK CONTROL EMISSIONS.

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0024GR/DSCF. THE 3.64 LB/HR IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 UNITS/HR. THE 15.93 TPY LIMIT IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 UNITS/YR.

Process/Pollutant Information

PROCESS NAME: DRY SCREENING AND DRY STORAGE EQUIPMENT (ID12)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 0

Process Notes: DRIED STRANDS FROM THE DRYERS ARE SCREENED TO SEPARATE THE FINES FROM THE STRANDS AND ARE STORED IN DRY STORAGE BINS. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOH): POWDER PHENOLIC RESIN - 0.2%; LIQUID PHENOLIC RESIN - 0.2 %. FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0 %; LIQUID PHENOLIC RESIN - 0.6%.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 6.5500 LB/H

Emission Limit 2: 22.4700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI CI/WP-98.01 METHOD ALSO SPECIFIED. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.0100 LB/H

Emission Limit 2: 4.4400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0024GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: FINISHING AND SANDING EQUIPMENT

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 0

Process Notes: FROM THE PRESS UNLOADER SYSTEM, INDIVIDUAL RAW MASTER PANELS ARE FED TO THE FINISHING END THROUGH A SERIES OF CONVEYORS. THE MASTER RAW PANELS ARE TRIMMED TO SIZE, SANDED, STACKED, EDGE SEALED, AND STRAPPED FOR SHIPMENT. THE RESIN USE IS LIMITED BY FREE FORMALDEHYDE AND FREE METHANOL CONTENT. FREE FORMALDEHYDE (HCOH): POWDER PHENOLIC RESIN - 0.2%; LIQUID PHENOLIC RESIN - 0.2 %. FREE METHANOL (MEOH): POWDER PHENOLIC RESIN - 0 %; LIQUID PHENOLIC RESIN - 0.6%.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.5900 LB/H

Emission Limit 2: 6.9700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) PM EMISSIONS WILL BE CONTROLLED BY TWO BAGHOUSES (BH01 AND BH01A) WHICH VENT TO TWO DIFFERENT STACKS (D1 AND D1A).

Est. % Efficiency: 99.900

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. THE BACT EMISSION LIMITS WILL BE ESTABLISHED AT 1.59 LB/HR AND 6.97 TPY FOR PM EMISSIONS VENTING FROM STACK D1 (BH01) AND 1.87 LB/HR AND 8.20 TPY FOR PM EMISSIONS VENTING FROM STACK D1A (BH01A). EMISSION LIMITS WERE CALCULATED BASED ON A DESIGN OUTLET GRAIN LOADING RATE OF 0.0024GR/DSCF. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 5.5300 LB/H

Emission Limit 2: 18.9700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD DESIGN/OPERATION WILL BE USED AS VOC CONTROL FOR THESE SOURCES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: NCASI 98.01 METHOD ALSO SPECIFIED. THE BACT EMISSION LIMITS WILL BE ESTABLISHED AT 5.53 LB/HR AND 18.97 TPY FOR VOC EMISSIONS VENTING FROM STACK D1, AND 6.51 LB/HR AND 22.32 TPY FOR VOC EMISSIONS VENTING FROM STACK D1A. THE SHORT TERM (LB/HR) EMISSION LIMIT IS BASED ON A SHORT-TERM MAXIMUM OPERATING RATE OF 175 MSF3/8/HR. THE ANNUAL EMISSION LIMIT (TPY) IS BASED ON A LIMITED ANNUAL PRODUCTION RATE OF 1,200,000 MSF3/8/YR.

Process/Pollutant Information

PROCESS NAME: PAINT BOOTHS AND STENCILS

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0

Process Notes: THE PAINT BOOTH OPERATION UTILIZES COATINGS THAT CONTAIN VOC AND INVOLVES APPLICATION OF COATINGS TO THE OSB. IN ADDITION TO VOC EMISSIONS, COATING PROCESSES EMIT PM. HOWEVER, SINCE THE PAINT BOOTH STACKS EXHAUST INSIDE THE BUILDING, THERE ARE NO PM EMISSIONS RELEASED TO THE ATMOSPHERE FROM THE PAINT BOOTHS.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 9.2400 LB/H

Emission Limit 2: 40.4500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) SCHEDULED INSPECTIONS AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN WILL BE PERFORMED COUPLED WITH PAINT BOOTH DESIGN AND PERMFORMANCE TO MINIMIZE VOC EMISSIONS, INCLUDING THE USE OF LOW-VOC COATINGS AND MINIMAL OVERSPRAY.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE LIMITS ESTABLISHED BY BACT ARE FOR A COMBINED TOTAL FROM BOTH OF THE PAINT BOOTHS (PB1 AND PB2).

Process/Pollutant Information

PROCESS NAME: PROPANE VAPORIZERS (ID15)

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: PROPANE

Throughput: 5.00 MMBTU/H

Process Notes: 1 - PROPANE VAPORIZER - 3.0 MILLION BTU/HR FUEL VAPORIZER 1 - PROPANE VAPORIZER - 5.0 MILLION BTU/HR RTO BACKUP THE TWO VAPORIZERS ARE LIMITED TO 16,000 MM BTU/YR, COMBINED.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: EPA/OAR Mthd 25A

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: EPA/OAR Mthd 7E

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 1.2000 LB/H

Emission Limit 2: 1.2000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0400 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.1500 LB/H

Emission Limit 2: 0.1500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 0.1700 LB/H

Emission Limit 2: 0.1700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FIRE WATER DIESEL PUMP

Process Type: 17.110 (Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel))

Primary Fuel: DIESEL

Throughput: 525.00 HP

Process Notes: THE FIRE PUMP IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES. THE DIESEL FIRE PUMP IS LIMITED TO 500 HOURS OF OPERATION/YR.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.4100 LB/H

Emission Limit 2: 0.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED. ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.4100 LB/H

Emission Limit 2: 0.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 5.9000 LB/H

Emission Limit 2: 1.4700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: EPA/OAR Mthd 6C

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.3900 LB/H

Emission Limit 2: 0.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: EPA/OAR Mthd 10

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 1.2700 LB/H
Emission Limit 2: 0.3200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4700 LB/H
Emission Limit 2: 0.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ANNUAL EMISSIONS FROM THE DIESEL FIRE PUMP ARE BASED ON AN OPERATIONAL LIMIT OF 500 HR/YR.

Process/Pollutant Information

PROCESS NAME: DIESEL EMERGENCY GENERATOR

Process Type: 17.110 (Fuel Oil (ASTM # 1,2, includes kerosene, aviation, diesel fuel))

Primary Fuel: DIESEL

Throughput: 1400.00 HP

Process Notes: THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.

POLLUTANT NAME: Particulate matter, total (TPM)

CAS Number: PM

Test Method: Other

Other Test Method: METHODS 5 AND 202

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.2500 LB/H

Emission Limit 2: 0.0600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.2000 LB/H

Emission Limit 2: 0.0500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 11.4100 LB/H
Emission Limit 2: 2.8500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 5.4000 LB/H
Emission Limit 2: 1.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 3.0300 LB/H
Emission Limit 2: 0.7600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.3200 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: NATURAL GAS SPACE HEATERS - 14 UNITS (ID 18)
Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))
Primary Fuel: NATURAL GAS
Throughput: 20.89 MMBTU/H
Process Notes:

POLLUTANT NAME: Particulate matter, total (TPM)
CAS Number: PM
Test Method: Other
Other Test Method: METHODS 5 AND 202
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1500 LB/H
Emission Limit 2: 0.6600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: METHODS 5 AND 202 SPECIFIED.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1500 LB/H
Emission Limit 2: 0.6600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: EPA/OAR Mthd 7E
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 1.9900 LB/H
Emission Limit 2: 8.7100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: EPA/OAR Mthd 6C
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: EPA/OAR Mthd 10
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 1.6700 LB/H
Emission Limit 2: 7.3200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: EPA/OAR Mthd 25A
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1100 LB/H
Emission Limit 2: 0.4800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	MI-0387 (final)	**Date Determination Last Updated:**	09/08/2008
Corporate/Company Name:	LOUISIANA-PACIFIC CORPORATION	**Permit Number:**	41-03F
Facility Name:	SAGOLA MILL	**Permit Date:**	01/31/2008 (actual)
Facility Contact:	HANS BAIJ 9065427320 HANSBAIJ@LPCORP.COM	**FRS Number:**	052604300030
Facility Description:	ORIENTED STRANDBOARD MANUFACTURING FACILITY	**SIC Code:**	2493
Permit Type:	C: Modify process at existing facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	5	**COUNTRY:**	USA
Facility County:	DICKSON		
Facility State:	MI		
Facility ZIP Code:	498810100		

Permit Issued By:	MICHIGAN DEPT OF ENVIRONMENTAL QUALITY (Agency Name) MS. CINDY SMITH(Agency Contact) (517)241-7461 SMITHC17@MICHIGAN.GOV
Other Agency Contact Info:	PERMIT ENGINEER: MELISSA BYRNES, 517-373-7065
Permit Notes:	THIS PERMIT ALLOWED EMISSION LIMIT INCREASES FOR VOC AND NOX.

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
CLASS1	MI	Seney	100km - 50km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Volatile Organic Compounds (VOC)	12.4000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: PRESS SYSTEM

Process Type: 30.500 (Particle & Strand Board Manufacturing)

Primary Fuel: NATURAL GAS

Throughput: 310000.00 T/F YR

Process Notes: INCLUDES MAT FORMING LINE AND BOARD PRESS. FACILITY IS USING PHENOL FORMALDEHYDE RESIN FOR PRODUCTION OF "VALUE ADDED" PRODUCTS.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 0.5100 LB/T FINISHED PROD

Emission Limit 2: 79.5000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements: N/A

Control Method: (N) GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 5.9100 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: N/A
Control Method: (A) REGENERATIVE THERMAL OXIDIZER OR REGENERATIVE CATALYTIC OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 11.2000 T/YR
Emission Limit 2: 0.0720 LB/T FINISHED PROD
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: N/A
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 43.0000 LB/H
Emission Limit 2: 155.0000 T/YR 12-MONTH ROLLING TIME PERIOD
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) LOW NOX BURNERS AND GOOD COMBUSTION PRACTICES USED IN RCO.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes: RE-EVALUATED BACT DETERMINIATION FROM PERMIT 41-03A

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 3.4400 LB/H
Emission Limit 2: 12.4000 T/YR 12-MONTH ROLLING TIME PERIOD
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE CATALYTIC OXIDIZER
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes: RE-EVALUATED BACT DETERMINIATION FROM PERMIT 41-03A

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATER

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel: WOOD & BARK

Throughput:

Process Notes: 60 MMBTU/HR HEAT INPUT. PERMIT LIMITS 30,660 TONS PER YEAR DRY FUEL. BACT WAS RE-EVALUATED FROM ORIGINAL PERMIT (41-03A) IN PERMIT 41-03D.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 16.8000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: PERMIT NO. 41-03D RE-EVALUATED BACT FOR NOX.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 28.6000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: PERMIT NO. 41-03D RE-EVALUATED BACT FOR CO.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.5000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: N/A

Other Applicable Requirements:

Control Method: (N) GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 11.5500 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) MULTICLYCLONE AND ELECTRIFIED FILTER BED

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: SAME LIMIT APPLIES TO PM-10

Process/Pollutant Information

PROCESS NAME: ELECTRIFIED GRAVEL FILTER

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes: GRAVEL BED FILTER IS THE PARTICULATE CONTROL DEVICE FOR THE THERMAL OIL HEATER. BED MUST GO THRU A CLEANING PROCESS WHICH IS CONTROLLED BY A BAGHOUSE.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.1000 LB/H

Emission Limit 2: 0.0100 LB/1000 LB EXHAUST

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes: SAME LIMIT APPLIES TO PM-10.

Process/Pollutant Information

PROCESS NAME: FLAKE DRYERS

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes: 3 SINGLE PASS FLAKE DRYERS EACH WITH A PROCESS CYCLONE. LIMITED TO 310,000 TONS FINISHED PRODUCT PER YEAR.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 192.2000 T/YR
Emission Limit 2: 0.6200 LB/T FINISED PROD HARDWOOD
Standard Emission: 1.2400 LB/T FINISED PROD SOFTWOOD
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: N/A
Control Method: (N) LOW NOX BURNERS, GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 680.5000 T/YR

Emission Limit 2: 3.6400 LB/T FINISHED PROD HARDWOOD
Standard Emission: 4.3900 LB/T FINISHED PROD SOFTWOOD
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: N/A
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 57.4000 T/YR
Emission Limit 2: 0.2900 LB/T FINISHED PROD HARDWOOD
Standard Emission: 0.3700 LB/T FINISHED PROD SOFTWOOD
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: N/A
Control Method: (A) REGENERATIVE THERMAL OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 6.8000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements: N/A

Control Method: (A) REGENERATIVE THERMAL OXIDIZER

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 10.0000 LB/H

Emission Limit 2: 0.0070 GR/DSCF

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) CYCLONE AND WET ESP

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: SAME LIMIT APPLIES TO PM-10.

Process/Pollutant Information

PROCESS NAME: FORMING LINE

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes: INCLUDES BLENDERS, FORMERS, FLYING CUTOFF SAW AND FORMING LINE

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.9000 LB/H
Emission Limit 2: 0.0100 LB/1000 LB
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: SAME LIMIT APPLIES TO PM-10.

Process/Pollutant Information

PROCESS NAME: SANDER 1

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: SAWLINE SYSTEM (TRIM, CROSSCUT AND RIP SAWS), TONGUE & GROVE MACHINE, AND SANDER.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6800 LB/H
Emission Limit 2: 0.0100 LB/1000 LB

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SANDER 2

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: SAWLINE SYSTEM (TRIM, CROSSCUT AND RIP SAWS), TONGUE & GROVE MACHINE, AND SANDER.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.2400 LB/H

Emission Limit 2: 0.0100 LB/1000 LB

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: SAME LIMITS APPLY TO PM-10.

Process/Pollutant Information

PROCESS NAME: FG MAIN 1

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: SAWLINE SYSTEM (TRIM, CROSSCUT AND RIP SAWS), TONGUE & GROVE MACHINE, AND SANDER.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.6000 LB/H

Emission Limit 2: 0.0100 LB/1000 LB

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: SAME LIMITS APPLY TO PM-10.

Process/Pollutant Information

PROCESS NAME: FG MAIN 3

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: SAWLINE SYSTEM (TRIM, CROSSCUT AND RIP SAWS), TONGUE & GROVE MACHINE, AND SANDER.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.1000 LB/H
Emission Limit 2: 0.0100 LB/1000 LB
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: SAME LIMITS APPLY TO PM-10.

Process/Pollutant Information

PROCESS NAME: FG-LAIDIG

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes: FUEL BIN, PRIMARY HAMMERMILL, FORMING LINE, SAWLINE SYSTEM (TRIM, CROSSCUT AND RIP SAWS), TONGUE & GROVE MACHINE, AND SANDER.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1400 LB/H
Emission Limit 2: 0.0100 LB/1000 LB

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: N/A
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: SAME LIMITS APPLY TO PM-10.

Process/Pollutant Information

PROCESS NAME: NATURAL GAS THERMAL OIL HEATER

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel: NATURAL GAS

Throughput:

Process Notes: 24 MM BTU/HR NATURAL GAS-FIRED THERMAL OIL HEATER. BACT WAS RE-EVALUATED FROM ORIGINAL PERMIT (41-03A) IN PERMIT 41-03D.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1700 LB/H
Emission Limit 2:
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes: SAME LIMIT APPLIES TO PM-10.

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 2.8300 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 1.9800 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1290 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) GOOD COMBUSTION PRACTICES.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	AL-0221 (final)	**Date Determination**	
		Last Updated:	04/12/2007
Corporate/Company Name:	LOUISIANA PACIFIC CORPORATION	**Permit Number:**	102-0014-X001-X002, X004-X009
Facility Name:	LOUISIANA PACIFIC CORPORATION	**Permit Date:**	06/14/2006 (actual)
Facility Contact:	PHILLIP COBBS 6159865662	**FRS Number:**	110022882424
Facility Description:	859 MMSF/YR OSB FACILITY	**SIC Code:**	2493
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	4	**COUNTRY:**	USA
Facility County:	CLARKE		
Facility State:	AL		

Facility ZIP Code:	36784
Permit Issued By:	ALABAMA DEPT OF ENVIRONMENTAL MGMT (Agency Name) MR. ANTHONY SMILEY(Agency Contact) (334) 271-7714 ASMILEYSR@ADEM.STATE.AL.US
Other Agency Contact Info:	LESTER MEREDITH, ADEM FACILITY CONTACT, 334-271-7885 DALE HURST, RBLC CONTACT, 334-271-7882
Permit Notes:	SIC CODE: 2493; NAICS CODE: 321219; FACILITYWIDE POLLUTANTS CONT.: PM10: +129.77

Facility-wide Emissions:

Pollutant Name:	**Facility-wide Emissions Increase:**
Carbon Monoxide	196.9900 (Tons/Year)
Nitrogen Oxides (NOx)	559.5900 (Tons/Year)
Particulate Matter (PM)	134.7700 (Tons/Year)
Sulfur Oxides (SOx)	41.0700 (Tons/Year)
Volatile Organic Compounds (VOC)	714.6200 (Tons/Year)

Process/Pollutant Information

PROCESS NAME:	BARK BURNER/DRYER
Process Type:	30.530 (Board Mfg. Dryers)
Primary Fuel:	BARK
Throughput:	85000.00 lb/h
Process Notes:	188 MMBTU/H UNIT WITH WESP AND RTO

POLLUTANT NAME:	Visible Emissions (VE)
CAS Number:	VE
Test Method:	Unspecified
Pollutant Group(s):	
Emission Limit 1:	10.0000 % OPACITY
Emission Limit 2:	
Standard Emission:	10.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) WESP AND RTO
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO_2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 4.7000 LB/H
Emission Limit 2: 0.1100 LB/ODT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: POLLUTANT INFORMATION CONT.: OPACITY EMISSION LIMIT: 10%, 93% OVERALL EFFICIENCY ODT: OVEN DRIED TON

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 23.5000 LB/H
Emission Limit 2: 0.5500 LB/ODT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (A) RTO
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 20.0000 LB/H
Emission Limit 2: 0.4700 LB/ODT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (A) RTO
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 61.3000 LB/H
Emission Limit 2: 0.2800 LB/MMBTU
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: GOOD DESIGN/OPERATION

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 8.2000 LB/H
Emission Limit 2: 0.1900 LB/ODT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (A) WET ESP
Est. % Efficiency: 93.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MAIN DUST COLLECTION
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput: 88.40 T/YR
Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:
Standard Emission: 5.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 22.9000 LB/H
Emission Limit 2: 100.3000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT , SIP
Control Method: (P) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: POLLUTANT INFORMATION CONT.: OPACITY: 5%, 99% EFFICIENCY FOR PARTICULATES, ADD-ON CONTROL DEVICE (BAGHOUSE)

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0050 GR/DSCF

Emission Limit 2: 1.2400 LB/H

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: N

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (A) BAGHOUSE

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FORMING AREA

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 88.40 T/H

Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 %OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 5.5000 LB/H
Emission Limit 2: 24.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (P) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: POLLUTANT INFORMATION CONT.: OPACITY: 5%, 99% EFFICIENCY, ADD-ON CONTROL DEVICE (BAGHOUSE)

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0050 GR/DSCF
Emission Limit 2: 2.3700 LB/H
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD PRESS
Process Type: 30.520 (Board Presses.)
Primary Fuel: BARK
Throughput: 85000.00 LB/H
Process Notes: 188 MMBTU/H UNIT WITH WESP & RTO

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 77.0000 LB/H

Emission Limit 2: 0.7860 LB/MSF

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (A) BIOFILTER

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: POLLUTANT INFORMATION CONT.: OPACITY: 10%, NO CONTROLS FEASIBLE (GOOD DESIGN/OPERATION)

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 6.2000 LB/H

Emission Limit 2: 0.0630 LB/MSF

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (N) GOOD DESIGN/OPERATION

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 5.3000 LB/H
Emission Limit 2: 0.0540 LB/MSF
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 4.8000 LB/H
Emission Limit 2: 0.0490 LB/ODT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: ODT: OVEN DRIED TONS

Process/Pollutant Information

PROCESS NAME: FINISHING AREA

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 88.40 T/H

Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 4.7000 LB/H

Emission Limit 2: 20.6000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: N

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: SIP , OPERATING PERMIT

Control Method: (P) GOOD DESIGN/OPERATION

Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: POLLUTANT INFORMATION CONT.: OPACITY: 5%, 99% EFFICIENCY, ADD-ON CONTROL DEVICE (BAGHOUSE)

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0050 GR/DSCF
Emission Limit 2: 2.0000 LB/H
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PAINT BATHS
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 234207.00 GAL/YR
Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0300 LB/GAL
Emission Limit 2: 3.5100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (P) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BURNER, START UP/SHUT DOWN, NG
Process Type: 19.600 (Misc. Boilers, Furnaces, Heaters)
Primary Fuel: NATURAL GAS
Throughput: 30.00 MMBtu/h
Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2000 LB/H
Emission Limit 2: 0.0054 LB/MMBTU
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N) GOOD DESIGN/OPERATION
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO_2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2:
Standard Emission: 0.0006 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (N) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2200 LB/H
Emission Limit 2:
Standard Emission: 0.0075 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (P) GOOD DESIGN/OPERATION
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 2.4700 LB/H
Emission Limit 2:
Standard Emission: 0.0824 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (P) GOOD DESIGN/OPERATION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 1.4700 LB/H
Emission Limit 2:
Standard Emission: 0.0490 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: N
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , OPERATING PERMIT
Control Method: (P) LOW NOX BURNER
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	AL-0216 (final)	**Date Determination Last Updated:**	05/07/2007
Corporate/Company Name:	PARAGON PANELS OF ALABAMA, L.L.C.	**Permit Number:**	601-0024-X001
Facility Name:	PARAGON PANELS OF ALABAMA, L.L.C.	**Permit Date:**	04/12/2006 (actual)
Facility Contact:	JAMES F. ADKINS 3347751690	**FRS Number:**	110020435572
Facility Description:	PARAGON PANELS WILL PRODUCE MDF FROM WOOD CHIPS, SHAVINGS, AND SOME SAWDUST AT A RATE OF 151 MMSF/YR. CHIPS, SHAVINGS AND SAWDUST ARE MIXED WITH WAX AND RESIN, THEN SENT THROUGH A PLATEN PRESS, WHERE THEY ARE PRESSED INTO BOARDS. THE BOARDS ARE THEN SANDED, CUT, AND STACKED FOR SHIPMENT.	**SIC Code:**	2493
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	4	**COUNTRY:**	USA
Facility County:	BARBOUR		
Facility State:	AL		
Facility ZIP Code:	360169460		
Permit Issued By:	ALABAMA DEPT OF ENVIRONMENTAL MGMT (Agency Name) MR. ANTHONY SMILEY(Agency Contact) (334) 271-7714 ASMILEYSR@ADEM.STATE.AL.US		
Permit Notes:	FACILITYWIDE POLLUTANTS CONTINUED: PM10 = +99.5; SO2 = +11.1; FORMALDEHYDE = +21.6; METHANOL = +27.1.		

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	80.0000 (Tons/Year)
Nitrogen Oxides (NOx)	350.4000 (Tons/Year)
Particulate Matter (PM)	117.0000 (Tons/Year)
Volatile Organic Compounds (VOC)	124.3000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: WOOD FIBER PREP/DRYING

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput: 151.00 mmsf/yr

Process Notes: INCLUDES FIBERBOARD PRESSING/COOLING WITH FOUR CYCLONES. THROUGHPUT IS MMSF OF MEDIUM DENSITY FIBERBOARD (MDF) PER YEAR.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 20.5700 LB/H 10% CAPACITY

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: MACT , SIP , OPERATING PERMIT

Control Method: (B) REGENERATIVE THERMAL OXIDIZERS OPERATING IN PARALLEL (2) WITH LOW NOX BURNERS

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 20.5700 LB/H 10% CAPACITY

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: MACT , SIP , OPERATING PERMIT
Control Method: (B) REGENERATIVE THERMAL OXIDIZERS OPERATING IN PARALLEL (2) WITH LOW NOX BURNERS
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 27.3500 LB/H 95% DRE (EXPRESSED AS PROPANE)
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Y
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT , SIP , OPERATING PERMIT
Control Method: (B) REGNERATIVE THERMAL OXIDIZERS OPERATING IN PARALLEL (2) WITH LOW NOX BURNERS
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 80.0000 LB/H
Emission Limit 2: 50.0000 PPM
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT , SIP
Control Method: (P) LOW NOX BURNERS
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD SIZING AND FINISHING LINE
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput: 151.00 MMSF/YR
Process Notes: THROUGHPUT IS MMSF MEDIUM DENSITY FIBERBOARD PER YEAR

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2:
Standard Emission: NOT AVAILABLE
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: WOOD WASTE TRANSFER SYSTEM

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 151.00 MMSF/YR

Process Notes: PRESS PIT PNEUMATIC WOOD WASTE TRANSFER SYSTEM WITH BAGHOUSE. THROUGHPUT IS PRODUCTION OF MDF (MEDIUM DENSITY FIBERBOARD

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1180 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Y
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT , SIP , OPERATING PERMIT
Control Method: (A) BAGHOUSE (1)
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1180 LB/H
Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT , SIP , OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT , SIP , OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FUEL RECEIVING, STORAGE AND METERING

Process Type: 42.004 (Petroleum Liquid Marketing (except 42.001-003 & 42.005-006))

Primary Fuel:

Throughput: 151.00 mmsf/yr

Process Notes: THERMAL OIL HEATER FUEL RECEIVING, STORAGE AND METERING. ACTIVITY IS PLANT PRODUCTION OF MMSF OF MEDIUM DENSITY FIBERBOARD PER YEAR.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0100 LB/H 10% OPACITY
Emission Limit 2:
Standard Emission: NOT AVAILABLE
Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: SIP , MACT , OPERATING PERMIT
Control Method: (A) BAGHOUSE (1)
Est. % Efficiency: 99.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: INFORMATION ALSO APPLIES TO PM10.

Process/Pollutant Information

PROCESS NAME: FUEL TRANSFER , RECEIVING, STORAGE, AND METERING, BURNER FUEL

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 151.00 MMSF/YR

Process Notes: BURNER FUEL TRANSFER , RECEIVING, STORAGE, AND METERING WITH BAG HOUSE

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0270 LB/H BAGHOUSE 1 - 10% OPACITY

Emission Limit 2: 0.0230 LB/H BAGHOUSE 2 - 10% OPACITY

Standard Emission: NOT AVAILABLE

Did factors, other then air pollution technology considerations influence the BACT decisions: Y

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: MACT , SIP , OPERATING PERMIT

Control Method: (A) BAGHOUSE (2)

Est. % Efficiency: 99.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: INFORMATION ALSO APPLIES TO PM10.

Facility Information

RBLC ID: LA-0203 (final)

Date Determination Last Updated: 08/07/2007

Corporate/Company Name: MARTCO LIMITED PARTNERSHIP

Permit Number: PSD-LA-710

Facility Name: OAKDALE OSB PLANT

Permit Date: 06/13/2005 (actual)

Facility Contact: NATALIE M. MONROE 3184480405

FRS Number: 110022291107

Facility Description: PSD FOR A NEW ORIENTED STRAND BOARD (OSB) MANUFACTURING FACILITY CAPABLE OF PRODUCING 900,000 MSF 3/8 INCH OSB PER YEAR.

SIC Code: 2493

Permit Type: A: New/Greenfield Facility

NAICS Code: 321219

Permit URL:

EPA Region: 6

COUNTRY: USA

Facility County: ALLEN

Facility State: LA

Facility ZIP Code: 71463

Permit Issued By: LOUISIANA DEPARTMENT OF ENV QUALITY (Agency Name)
MR. BRYAN D. JOHNSTON(Agency Contact) (225)219-3450 BRYAN.JOHNSTON@LA.GOV

Other Agency Contact Info: PERMIT WRITER: MS. TEGAN TREADAWAY, 225-219-3181

Permit Notes: CO BACT LIMITS FOR ROTARY DRYER NOS. 1-3 HAVE BEEN REVISED TO 50.88 LB/HR (2.11 LB/ODT). SEE LA-0253.

Facility-wide Emissions: **Pollutant Name:** **Facility-wide Emissions Increase:**

Carbon Monoxide	221.3600 (Tons/Year)
Nitrogen Oxides (NOx)	748.1500 (Tons/Year)
Particulate Matter (PM)	73.1900 (Tons/Year)
Sulfur Oxides (SOx)	45.7600 (Tons/Year)
Volatile Organic Compounds (VOC)	57.1500 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: ROTARY DRYER NOS. 1-3

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD

Throughput: 300000.00 MSF/YR 3/8 inch basi

Process Notes: 211,050 ODT/YR EA. HEAT INPUT: 261 MM BTU/HR (PER FURNACE); 174 MM BTU/HR (PER DRYER)

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.9100 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (A) VENTURI SCRUBBER AND WET ELECTROSTATIC PRECIPITATOR (ESP)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 4.1800 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 69.7700 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (B) LOW NOX BURNERS AND WATER INJECTION
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 11.4600 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 6.0800 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: AUXILIARY THERMAL OIL HEATER
Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 66.50 MMBTU/H

Process Notes: OPERATING TIME = 500 HR/YR.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5900 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission: 0.0090 LB/MMBTU CALCULATED BY CATC

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (P) USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 0.0500 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission: 0.0010 LB/MMBTU CALCULATED BY CATC

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (P) USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 7.8200 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission: 0.1180 LB/MMBTU CALCULATED BY CATC
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (P) USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 6.5700 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission: 0.0990 LB/MMBTU CALCULATED BY CATC
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (P) USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4300 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (P) USE OF NATURAL GAS AS FUEL AND GOOD COMBUSTION PRACTICES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: OSB PRESS
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput: 900000.00 MSF/YR 3/8 INCH BASI
Process Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 25.8900 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (A) HOOD CAPTURE SYSTEM AND THERMAL CATALYTIC OXIDIZER (TCO)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 1.2100 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (A) HOOD CAPTURE SYSTEM AND THERMAL CATALYTIC OXIDIZER (TCO)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 7.9700 LB/H HOURLY MAXIMUM

Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) HOOD CAPTURE SYSTEM AND THERMAL CATALYTIC OXIDIZER (TCO)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 43.1500 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: EDGE SEAL PAINTING

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 20.74 GAL/H

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.9800 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (A) PAINT BOOTH WITH FABRIC FILTER

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: STENCIL PAINTING

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0.42 GAL/H

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.1700 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.0100 LB/H HOURLY MAXIMUM

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OPERATING PERMIT

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PAVED ROADS

Process Type: 99.140 (Paved Roads)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.6000 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (N) LIMITED ACCESS
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: UNPAVED ROADS

Process Type: 99.150 (Unpaved Roads)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2900 LB/H HOURLY MAXIMUM
Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) RESTRICTED ACCESS AND CHEMICAL DUST SUPPRESSANTS
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: 10,000 GAL DIESEL TANK

Process Type: 42.005 (Petroleum Liquid Storage in Fixed Roof Tanks)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0010 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (P) SUBMERGED FILL PIPE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: 5000 GAL GASOLINE TANKS (2)

Process Type: 42.005 (Petroleum Liquid Storage in Fixed Roof Tanks)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1500 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (P) SUBMERGED FILL PIPE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FORMER AREA PNEUMATIC SYSTEM

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 38000.00 DSCFM

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	0.6800 LB/H HOURLY MAXIMUM
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	OPERATING PERMIT
Control Method:	(A) BAGHOUSE
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME:	DRY BIN AREA ASPIRATION SYSTEM
Process Type:	30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:	
Throughput:	53000.00 DSCFM
Process Notes:	

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	0.4900 LB/H HOURLY MAXIMUM
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SAWLINE PNEUMATIC SYSTEM

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 51000.00 DSCFM

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6700 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SANDER PNEUMATIC SYSTEM

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 51000.00 DSCFM

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.5800 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: STRANDER ASPIRATION SYSTEM

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 30000.00 DSCFM

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1800 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRY FUEL TRANSFER SYSTEM

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 500.00 DSCFM

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.4600 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SAW DUST TRANSFER SYSTEM
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput: 2000.00 DSCFM
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1000 LB/H HOURLY MAXIMUM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OPERATING PERMIT
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	GA-0131 (final)	**Date Determination**	
		Last Updated:	02/05/2009
Corporate/Company Name:	NORBORD GEORGIA	**Permit Number:**	2493-081-0054-V-02-1
Facility Name:	NORBORD GEORGIA	**Permit Date:**	06/03/2005 (actual)
Facility Contact:		**FRS Number:**	110000740921
Facility Description:	ORIENTED STRAND BOARD (OSB) MANUFACTURING	**SIC Code:**	2493
Permit Type:	B: Add new process to existing facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	4	**COUNTRY:**	USA
Facility County:	CRISP		
Facility State:	GA		
Facility ZIP Code:	31015		

Permit Issued By: GEORGIA DEPARTMENT OF NATURAL RESOURCES (Agency Name)
MR. JOHN YNTEMA(Agency Contact) (404)363-7117 john_yntema@dnr.state.ga.us

Other Agency Contact Info: 404-363-7117
4244 INTERNATIONAL PARKWAY
SUITE 120
ATLANTA, GA 30354
JOHN.YNTEMA@GADNR.ORG

Permit Notes:

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
CLASS1	GA	Okefenokee	100km - 50km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	451.0000 (Tons/Year)
Nitrogen Oxides (NOx)	433.0000 (Tons/Year)
Particulate Matter (PM)	197.0000 (Tons/Year)
Sulfur Oxides (SOx)	15.0000 (Tons/Year)
Volatile Organic Compounds (VOC)	466.0000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME:	OSB BOARD PRESS
Process Type:	30.520 (Board Presses.)
Primary Fuel:	

Throughput: 650.00 MMSQF/YR

Process Notes: HEATED BY HOT OIL

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 11.4000 LB/H 3-HOUR
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT
Control Method: (A) REGENERATIVE THERMAL/CATALYTIC OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: PRESS REQUIRED TO BE IN PERMANENT TOTAL ENCLOSURE OXIDIZER CAN OPERATE IN EITHER THERMAL OR CATALYTIC MODE

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 15.0000 LB/H 3-HOUR; WHEN OXIDIZER IN CAT MODE
Emission Limit 2: 20.4000 LB/H 3-HOUR; WHEN OXIDIZER IN THERMAL MODE
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes: NOX RESULTS MAINLY FROM OXIDIZER- ONLY TRIVIAL AMOUNTS OF NOX FROM PRESS ITSELF

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: SEE NOTE
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: NO CO LIMIT, OXIDIZER FOR VOC CONTROL PROVIDES CO EMISSIONS REDUCTIONS

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.0000 LB/H 3-HOUR
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL/CATALYTIC OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: OXIDIZER INSTALLED FOR VOC CONTROL PROVIDES CONTROL FOR PARTICULATE MATTER

Process/Pollutant Information

PROCESS NAME: WOOD FLAKE DRYERS

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD

Throughput: 52.00 ODT/H

Process Notes: TWO DRYERS USING DIRECT CONTACT FROM WOOD-FIRED BOILER (ENERGY SYSTEM) BOILER IS 285MMBTU/HR FIXED GRATE BOILER EACH DRYER EQUIPPED WITH 80MMBTU/HR NG AUX BURNER TOTAL FOR BOTH IS 52 OVEN DRIED TONS/HR (ODT/HR) BOILER ALSO PROVIDES HOT OIL FOR PRESS

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5500 LB/ODT 3-HOUR

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: NSPS , MACT

Control Method: (A) WET ELECTRO-STATIC PRECIPITATOR (WESP)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: 2 FLAKE DRYERS AND WOOD-FIRED BOILER (ENERGY SYSTEM) EXHAUST THROUGH COMBINED STACK.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.2000 LB/ODT 3-HOUR
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: MACT
Control Method: (A) REGENERATIVE THERMAL OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: RTO CONTROLS COMBINED EXHAUST OF DRYERS AND BOILER

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 0.2800 LB/MMBTU 3-HOUR
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: RTO INSTALLED FOR VOC CONTROL PROVIDES SOME CONTROL FOR CO

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 0.2800 LB/MMBTU 3-HOUR
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	WI-0224 (final)	**Date Determination Last Updated:**	02/23/2009
Corporate/Company Name:	LOUISIANA-PACIFIC CORPORATION	**Permit Number:**	04-RV-235
Facility Name:	LOUISIANA-PACIFIC HAYWARD	**Permit Date:**	11/17/2004 (actual)
Facility Contact:	MARK FITCH 7156345490	**FRS Number:**	110000594296
Facility Description:	OSB MILL	**SIC Code:**	2493
Permit Type:	B: Add new process to existing facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	5	**COUNTRY:**	USA
Facility County:	SAWYER		
Facility State:	WI		
Facility ZIP Code:	54843		
Permit Issued By:	WISCONSIN DEPT OF NATURAL RESOURCES; AIR MGMT. PROGRAM (Agency Name) MR. ANDREW M. STEWART(Agency Contact) (608)266-6876 andrew.stewart@wisconsin.gov		
Other Agency Contact Info:	JEFF HANSON (608) 266-6876 REVIEWER: RAJ VAKHARIA RBLC ENTRY: DON FAITH		

Permit Notes: LOUISIANA PACIFIC CORPORATION - HAYWARD IS PROPOSING TO ADD NEW FINISHING LINES AT ITS MILL LOCATED IN HAYWARD, WISCONSIN TO ALLOW THE MILL TO PRODUCE ORIENTED STRAND BOARD (OSB) SIDING PRODUCTS AS WELL AS THE OSB SHEATHING AND FLOORING PRODUCTS IT CURRENTLY PRODUCES. THE PRIMARY DIFFERENCES IN PRODUCING LAP AND PANEL SIDING IS IN THE FINISH LINE WHERE THE SIDING PRODUCTS ARE CUT AND COATED DIFFERENTLY THAN OTHER OSB PRODUCTS. THE LOG DEBARKING WAFERZING AND DRYING PROCESSES CURRENTLY EMPLOYED FOR OSB SHEATHING AND PRODUCTS FLOORING WILL NOT BE PHYSICALLY ALTERED AS PART OF THE PROPOSED FINISHING LINE PROJECT. LP IS PROPOSING TO MAKE THE FOLLOWING CHANGES AT ITS HAYWARD, WISCONSIN OSB MILL: - CONSTRUCTION OF ONE PANEL SIDING LINE; - CONSTRUCTION OF ONE LAP SIDING LINE; - CONSTRUCTION OF A WOOD FINES RECOVERY SYSTEM; AND - CONSTRUCTION OF A ZINC BORATE SYSTEM SULFUR DIOXIDE (SO2) - AN INCREASE OF 0.03 TONS/YEAR OXIDES OF NITROGEN (NOX) - AN INCREASE OF 2.58 TONS/YEAR CARBON MONOXIDE (CO) - AN INCREASE OF 4.33 TONS/YEAR PARTICULATE MATTER (PM/PM10) - AN INCREASE OF 7.68 TONS/YEAR VOLATILE ORGANIC COMPOUNDS (VOC) - AN INCREASE OF 48.16 TONS/YEAR (SIGNIFICANT / BACT FOR VOC) (ONLY VOC'S SUBJECT TO BACT)

Process/Pollutant Information

PROCESS NAME: PANEL SIDING LINE, LAP SIDING LINE, S101, S102; P101, P102

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: NATURAL GAS

Throughput: 12.00 MMBTU/H

Process Notes: STACK S101; PROCESS P101 - THIS PROCESS REPRESENTS THE PANEL SIDING LINE AND INCLUDES BOTH COATING AND DRYING OPERATIONS. A 2.0 MILLION BTU PER HOUR NATURAL GAS CURING OVEN IS USED TO DRY THE APPLIED COATINGS. STACK S102; PROCESS P102 - THIS PROCESS REPRESENTS THE LAP SIDING LINE AND INCLUDES BOTH COATING AND DRYING OPERATIONS. FIVE 2.0 MILLION BTU PER HOUR NATURAL GAS CURING OVEN IS USED TO DRY THE APPLIED COATINGS (10 MMBTU/HR).

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: SEE NOTES

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: OTHER

Control Method: (P) LIMITS ON NATURAL GAS USAGE (SYNTHETIC MINOR LIMIT)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: THE PERMITTEE MAY NOT BURN MORE THAN 1.458 MMSCF OF NATURAL GAS PER MONTH AVERAGED OVER A 12 MONTH PERIOD IN THE DRYING OVENS (PROCESS P01) AND THE PERMITTEE MAY NOT BURN MORE THAN 7.291 MMSCF OF NATURAL GAS PER MONTH AVERAGED OVER A 12 MONTH PERIOD IN THE DRYING OVENS (PROCESS P02), AS DETERMINED BY THE AVERAGE OVER THE PREVIOUS 12 CONSECUTIVE MONTHS

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0150 LB/H S101 / P101
Emission Limit 2: 0.0750 LB/H S102 / P102
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements: OTHER
Control Method: (P) USE OF NATURAL GAS AS OVEN FUEL. SEE NOTES
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: NATURAL GAS COMBUSTION EMISSIONS (SYNTHETIC MINOR RESTRICTION).

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0400 LB/GAL AS RECEIVED
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) HIGH TRANSFER EFFICIENCY COATING; LIMIT ON COATING VOC CONTENT (0.04 LBS/GAL) AND LIMIT ON COATING USAGE.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: BACT IS DETERMINED TO BE: THE USE OF HIGH TRANSFER EFFICIENCY COATING EQUIPMENT ON THE PANEL AND LAP SIDING LINES; THE USE OF COATINGS WITH VOC CONTENT EQUAL TO OR LESS THAN 0.04 POUND PER GALLON AS RECEIVED; AND D) THE USE OF NOT MORE THAN 182,641.6 GALLONS OF COATINGS PER MONTH AVERAGED OVER A 12 MONTHS PERIOD ON P101 AND P102 COMBINED

Process/Pollutant Information

PROCESS NAME: FINES RECOVERY, S103, S104; P103, P104

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: STACK S103; PROCESS P103 - THIS PROCESS REPRESENTS THE FINE RECOVERY SYSTEM BAGHOUSE 1. STACK S104; PROCESS P104 - THIS PROCESS REPRESENTS THE FINE RECOVERY SYSTEM BAGHOUSE 2

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0012 GR/DSCF

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements: OTHER

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS FROM THE FINES RECOVERY BAGHOUSES MAY NOT EXCEED 0.0012 GR/DSCF FROM STACKS S103 AND S104 (SYNTHETIC MINOR LIMIT).

Process/Pollutant Information

PROCESS NAME: BAGHOUSE, FLYING CUT OFF SAW AND FORMING SECTION, S26, P26

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes: STACK S26; PROCESS P26 - THIS PROCESS REPRESENTS THE FLYING CUT OFF SAW AND FORMING SECTION BAGHOUSE

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0028 GR/DSCF
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements: OTHER
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: EMISSIONS FROM THE FLYING CUT OFF SAW BAGHOUSE MAY NOT EXCEED 0.0028 GR/DSCF FROM STACK S26 (SYNTHETIC MINOR)

Facility Information

RBLC ID:	WI-0223 (final)	**Date Determination Last Updated:**	10/11/2005
Corporate/Company Name:	LOUISIANA-PACIFIC CORPORATION	**Permit Number:**	03-RV-370
Facility Name:	LOUISIANA-PACIFIC HAYWARD	**Permit Date:**	06/17/2004 (actual)
Facility Contact:	MARK FITCH, PLANT ENV. MANAGER 7156345490	**FRS Number:**	110000594296
Facility Description:	OSB MILL	**SIC Code:**	2493
Permit Type:	C: Modify process at existing facility	**NAICS Code:**	321219
Permit URL:			
EPA Region:	5	**COUNTRY:**	USA
Facility County:	SAWYER		
Facility State:	WI		
Facility ZIP Code:	54843		
Permit Issued By:	WISCONSIN DEPT OF NATURAL RESOURCES; AIR MGMT. PROGRAM (Agency Name) MR. ANDREW M. STEWART(Agency Contact) (608)266-6876 andrew.stewart@wisconsin.gov		
Other Agency Contact Info:	JEFF HANSON (608) 266-6876 REVIEWER: RAJ VAKHARIA RBLC ENTRY: DON FAITH		
Permit Notes:	THE HAYWARD OSB MILL IS CURRENTLY LIMITED TO 21.58 TONS/HOUR AND 15,753.4 TONS/MONTH OF FINISHED PRODUCT PER PRESS. AS A RESULT OF THE PROPOSED MILL-WIDE IMPROVEMENT PROJECT, THE PRODUCTION RATES (TONS OF FINISHED PRODUCT) AT THE HAYWARD MILL WILL INCREASE BY APPROXIMATELY 20%. LP IS PROPOSING THE FOLLOWING PROJECT RATES: - ANNUAL - 226,849 TONS OF FINISHED PRODUCT/YEAR PER PRESS; AND - HOURLY - 25.9 TONS OF FINISHED PRODUCT/HOUR PER PRESS. (2 PRESS LINES) SULFUR DIOXIDE (SO2) - AN INCREASE OF 15.8 TONS/YEAR OXIDES OF NITROGEN (NOX) - AN INCREASE OF 280.4 TONS/YEAR CARBON MONOXIDE (CO) - AN INCREASE OF 1,429.7 TONS/YEAR PARTICULATE MATTER (PM/PM10) - AN INCREASE OF 89.5 TONS/YEAR VOLATILE ORGANIC COMPOUNDS (VOC) -AN INCREASE OF 99.6 TONS/YEAR		

Process/Pollutant Information

PROCESS NAME:	THERMAL OIL HEATERS, KONUS; S11, C11, B11 & B12
Process Type:	13.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))
Primary Fuel:	WOOD
Throughput:	19.40 MMBTU/H

Process Notes: STACK S11; CONTROL C11; BOILERS B11 & B12 - KONUS THERMAL OIL HEATERS RATED AT 19.4 MILLION BTU PER HOUR EACH WHICH BURN WOOD AS A PRIMARY FUEL AND DISTILLATE FUEL OIL AS A BACKUP FUEL. A SINGLE ELECTRIFIED FILTER BED (EFB) CONTROLS THE EMISSIONS FROM BOTH THERMAL OIL HEATERS

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 6.5000 LB/H COMBINED
Emission Limit 2:
Standard Emission: 0.5000 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) ELECTRIFIED FILTER BED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 6.5000 LB/H COMBINED
Emission Limit 2:
Standard Emission: 0.5000 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) ELECTRIFIED FILTER BED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 52.5000 LB/H COMBINED
Emission Limit 2:
Standard Emission: 1.3500 LB/MMBTU CALCULATED, NOT PERMIT LIMIT
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES (SEE NOTES BELOW)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7% OXYGEN (O2).

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 8.9000 LB/H COMBINED
Emission Limit 2:
Standard Emission: 0.2300 LB/MMBTU CALCULATED, NOT PERMIT LIMIT
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES (SEE NOTE BELOW)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7% OXYGEN (O2).

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.5000 LB/H COMBINED

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES (SEE NOTES BELOW)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7% OXYGEN (O2).

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATERS, KONUS, S21, C21, B21 & B22 -

Process Type: 13.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 23.80 MMBTU/H

Process Notes: STACK S21; CONTROL C21; BOILERS B21 & B22 - KONUS THERMAL OIL HEATERS RATED AT 23.8 MILLION BTU PER HOUR EACH WHICH BURN WOOD AS A PRIMARY FUEL AND DISTILLATE FUEL OIL AS A BACKUP FUEL. A SINGLE ELECTRIFIED FILTER BED (EFB) CONTROLS THE EMISSIONS FROM BOTH THERMAL OIL HEATERS.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 16.2000 LB/H COMBINED

Emission Limit 2:

Standard Emission: 0.3400 LB/MMBTU CALCULATED, NOT PERMIT LIMIT

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTIO PRACTICES (SEE NOTES BELOW)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7% OXYGEN (O2).

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 52.5000 LB/H COMBINED

Emission Limit 2:

Standard Emission: 1.1000 LB/MMBTU CALCULATED, NOT PERMIT LIMIT

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES (SEE NOTES BELOW)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7% OXYGEN (O2).

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 15.0000 LB/H COMBINED

Emission Limit 2:

Standard Emission: 0.5000 LB/MMBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) ELECTRIFIED FILTER BED

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 15.0000 LB/H COMBINED
Emission Limit 2:
Standard Emission: 0.5000 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) ELECTRIFIED FILTER BED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.6200 LB/H COMBINED
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES (SEE NOTES BELOW)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: B) GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BOILER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BOILER SHALL BE A MINIMUM OF 1 SECOND. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BOILER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT

7% OXYGEN (O2).

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATER, GTS ENERGY, S31, B31

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 32.00 MMBTU/H

Process Notes: STACK S31; BOILER B31 - GTS ENERGY THERMAL OIL HEATER RATED AT 32.0 MILLION BTU PER HOUR WHEN BURNING NATURAL GAS AND 30.0 MILLION BTU PER HOUR WHEN BURNING DISTILLATE FUEL OIL

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 4.2400 LB/H

Emission Limit 2:

Standard Emission: 0.1300 LB/MMBTU CALCULATED, NOT PERMIT LIMIT

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 2.7000 LB/H

Emission Limit 2:
Standard Emission: 0.0840 LB/MMBTU CALCULATED, NOT PERMIT LIMIT
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1800 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.8400 LB/H

Emission Limit 2:

Standard Emission: 0.1500 LB/MMBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATER, GTS ENERGY, S32, B32

Process Type: 13.310 (Natural Gas (includes propane and liquefied petroleum gas))

Primary Fuel: NATURAL GAS

Throughput: 32.00 MMBTU/H

Process Notes: STACK S32; BOILER B32 - GTS ENERGY THERMAL OIL HEATER RATED AT 32.0 MILLION BTU PER HOUR WHEN BURNING NATURAL GAS AND 30.0 MILLION BTU PER HOUR WHEN BURNING DISTILLATE FUEL OIL.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.0000 LB/H

Emission Limit 2:

Standard Emission: 0.1500 LB/MMBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 3.2000 LB/H
Emission Limit 2:
Standard Emission: 0.1000 LB/MMBTU CALCULATED, NOT PERMIT LIMIT
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 2.7000 LB/H
Emission Limit 2:
Standard Emission: 0.0840 LB/MMBTU CALCULATED, NOT PERMIT LIMIT
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1800 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) USE OF NATURAL GAS / DISTILLATE OIL, W/ RESTRICTION ON OIL USAGE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYER SYSTEM, LINE I, LINE II
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel: WOOD
Throughput:
Process Notes: FUELS ARE WOOD AND DISTILLATE OIL. STACKS S14 & S24; CONTROL C13 & C14, AND C23 & C24; PROCESSES P13 & P14, AND P23 & P24 -EACH PROCESS REPRESENTS ONE OF THE WAFER DRYERS (P13 & P14 FOR LINE I AND P23 & P24 FOR LINE II). EACH DRYER SYSTEM (LINE I AND LINE II) CONSISTS OF TWO ROTARY OR TWO SINGLE PASS DRYERS WITH BURNER UNITS, WHICH FIRE WOOD FUEL OR DISTILLATE FUEL OIL. EACH DRYER SYSTEM IS CONTROLLED BY HIGH EFFICIENCY PRIMARY CYCLONES, A WET ELECTROSTATIC PRECIPITATOR (WET ESP) AND A THERMAL OXIDIZER IN SERIES. THE CYCLONES ARE PART OF THE PROCESS SO

THERE ARE NO PERMIT CONDITIONS FOR THESE DEVICES. THE LINE II DRYER SYSTEM WAS INSTALLED IN 1982 WHILE THE LINE I DRYER SYSTEM WAS INSTALLED IN 1979 AND LAST MODIFIED IN 2003. S14; P13, P14 MODIFIED UNDER 03-POY-070

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 6.1000 LB/H FROM EACH STACK (S14, S24)
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) HIGH EFFICIENCY CYCLONES (PART OF PROCESS), WET ESP. USE OF THERMAL OXIDIZER WHEN MORE THAN ONE DRYING LINE IS IN OPERATION.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: S14; P13, P14 MODIFIED UNDER 03-POY-070

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 13.0500 LB/H FROM S14
Emission Limit 2: 9.7900 LB/H FROM S24
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) GOOD COMBUSTION PRACTICES (FOR WOOD COMBUSTION), USE OF THERMAL OXIDIZER WHEN OPERATING MORE THAN ONE DRYER. THE WOOD PROCESSED BY THE FACILITY SHALL BE AT LEAST 90 PERCENT ASPEN OR OTHER HARDWOODS
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 21.9000 LB/H FROM EACH STACK (S14, S24)
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) GOOD COMBUSTION PRACTICES, USE OF LOW NOX BURNERS IN OXIDATION SYSTEM
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BURNER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BURNER SHALL BE A MINIMUM OF 0.10 SECONDS. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BURNER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7PERCENT OXYGEN (O2). C) THE OPERATION OF A THERMAL OXIDATION SYSTEM WHENEVER ONE OR MORE WAFER DRYERS OF A DRYER SYSTEM IS OPERATING.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 6.1000 LB/H FROM EACH STACK (S14, S24)
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) HIGH EFFICIENCY CYCLONES (PART OF PROCESS), WET ESP. USE OF THERMAL OXIDIZER WHEN MORE THAN ONE DRYING LINE IS IN OPERATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 110.9000 LB/H FROM EACH STACK (S14, S24)

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) USE OF GOOD COMBUSTION PRACTICES, USE OF THERMAL OXIDIZER WHEN THERE IS MORE THAN ONE LINE IN OPERATION.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: GOOD COMBUSTION PRACTICES FOR BURNING WOOD FUEL: I) THE TEMPERATURE OF THE EXHAUST GAS EXITING THE BURNER SHALL BE MAINTAINED AT A MINIMUM OF 1250 DEGREES FAHRENHEIT. II) THE RESIDENCE TIME OF THE BURNER SHALL BE A MINIMUM OF 0.10 SECONDS. III) THE 8-HOUR AVERAGE CARBON MONOXIDE CONCENTRATION OF THE EXHAUST GAS EXITING THE BURNER MAY NOT EXCEED 600 PARTS PER MILLION DRY VOLUME (PPMDV), AT 7PERCENT OXYGEN (O2). C) THE OPERATION OF A THERMAL OXIDATION SYSTEM WHENEVER ONE OR MORE WAFER DRYERS OF A DRYER SYSTEM IS OPERATING.

Process/Pollutant Information

PROCESS NAME: WAFER PRESSES, LINE I, LINE II, S15/S25; C15/C25; P15/P25

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput: 226849.00 TFP/YR

Process Notes: HEAT FOR WAFER PRESSES PROVIDED BY THERMAL OIL HEATERS. OVERALL PRODUCTION CAPABILITY OF 226,849 TFP/YEAR AND 25.896 TFP/HR (TFP - TONS FINISHED PRODUCT)

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 15.7000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS FOR OXIDIZER SYSTEM (EITHER RTO OR CATALYTIC)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 3.3300 LB/H FROM EACH STACK (S15, S25)
Emission Limit 2:
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) THE OPERATION OF A THERMAL (OR CATALYTIC) OXIDATION SYSTEM WHENEVER THE WAFER PRESS IS OPERATING

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: THE PRODUCTION RATE FROM EACH PRESS SYSTEM MAY NOT EXCEED; A) 25.9 TONS OF FINISHED PRODUCT PER HOUR BASED ON WEEKLY DATA; AND B) 226,849 TONS OF FINISHED PRODUCT IN ANY 12 CONSECUTIVE MONTHS. CURRENTLY EQUIPPED WITH AN RTO.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 15.0000 LB/H FROM EACH PRESS

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) THE OPERATION OF AN OXIDATION SYSTEM WHENEVER THE WAFER PRESS IS OPERATING

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 4.1000 LB/H EACH STACK (S15, S25)

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) THE OPERATION OF AN OXIDATION SYSTEM WHENEVER THE WAFER PRESS IS OPERATING (RTO OR CATALYTIC)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Particulate Matter (PM)
CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	4.1000 LB/H FROM EACH STACK (S15, S25)
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) THE OPERATION OF AN OXIDATION SYSTEM WHENEVER THE WAFER PRESS IS OPERATING (RTO OR CATALYTIC)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME: FINISHING LINE (PAINT / INK), P17 -

Process Type: 41.999 (Other Surface Coating/Printing/Graphic Arts Sources)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 1.0000 LB/GAL LB VOC/GAL

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) USE OF INKS AND PAINTS HAVING A MAXIMUM VOC CONTENT OF 1.0 POUNDS OF VOC PER GALLON.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Facility Information

RBLC ID:	TX-0447 (final)	**Date Determination Last Updated:**	06/19/2007
Corporate/Company Name:	LOUISIANA-PACIFIC CORPORATION	**Permit Number:**	P888M1
Facility Name:	CARHAGE ORIENTED STRANDBOARD MILL	**Permit Date:**	03/16/2004 (actual)
Facility Contact:	MR. DON ROARK 9036942414	**FRS Number:**	110000598862

Facility Description:	THIS PLANT WILL PRODUCE 465,000,000 CF3 OF 3/8 INCH WAFER BOARD PER YEAR. THE OSB MANUFACTURING PROCESS INVOLVES THE FOLLOWING STEPS: TREE-LENGTH LOGS WILL BE DELIVERED TO THE PLANT SITE BY TRUCKS AND STORED UNTIL NEEDED. THE LOGS WILL THEN BE TRANSFERRED TO THREE DEBARKERS WHERE THE BARK WILL BE MECHANICALLY REMOVED. THE DEBARKED LOGS ARE THEN WAFERIZED BY THE THREE WAFERIZERS TO REDUCE THEM INTO THIN WAFERS. THE WAFERS WILL BE TRANSPORTED TO FIVE GREEN WAFER BINS FROM WHICH THE WAFERS WILL BE ROUTED TO THE FIVE WOOD FIRED DRYERS WHERE THEY WILL BE DRIED TO THE DESIRED MOISTURE CONTENT. THE WAFERS LEAVING EACH DRYER WILL BE COLLECTED BY A CYCLONE AND THEN SCREENED TO SEPARATE THE LARGER WAFERS FROM THE FINES. THE CYCLONE EXHAUSTS ARE VENTED TO TWO WET ELECTROSTATIC PRECIPITATORS (WESPS) AND THEN TO TWO REGENERATIVE THERMAL OXIDIZERS (RTO)S BEFORE BEING DISCHARGED TO THE ATMOSPHERE. THE LARGER WAFERS ARE MECHANICALLY CONVEYED TO THREE DRY WAFER BINS AND THE FINES ARE PNEUMATICALLY CONVEYED TO RAW FUEL BIN TO BE USED AS FUEL FOR THE DRYER BURNERS. FROM THE BIN, THE WAFERS WILL BE SENT TO THREE BLENDERS CONSISTING OF ONE CORE BLENDER AND TWO FACE BLENDERS WHERE THEY WILL BE BLENDED WITH RESINS AND WAX. THE COATED WAFERS WILL THEN PASS TO THE FORMING LINE WHERE THEY WILL BE ASSEMBLED INTO A MAT CONSISTING OF A CORE LAYER BETWEEN TWO FACE LAYERS. THE LOOSELY ASSEMBLED MAT WILL THEN BE PRESSED INTO OSB PANELS. THE PRESSED BOARDS MAY THEN BE MADE INTO SHEATHING OR SIDING. IF THE OSB IS MADE INTO SHEATHING, IT WILL BE CONVEYED TO EDGE TRIM AND CROSS CUT SAWS WHERE IT WILL BE CUT TO PROPER SIZE. SOME OF THE BOARDS MAY THEN PROCEED TO THE TONGUE-AND-GROOVE MACHINE. THE SHEATHING WILL BE STACKED, THEN THE EDGES WILL BE COATED WITH A WATER RESISTANCE SEAL. THE COMPANY LOGO MAY ALSO BE APPLIED TO THE SIDE OF EACH STACK. THE SHEATHING WILL BE STORED IN A WAREHOUSE FOR SHIPMENT. IF THE OSB IS MADE FOR SIDING, IT WILL PROCEED TO THE SIDING LINE WH	**SIC Code:**	2493
Permit Type:	U: Unspecified	**NAICS Code:**	321999
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	PANOLA		
Facility State:	TX		
Facility ZIP Code:			
Permit Issued By:	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (Agency Name) MR. JOHNNY VERMILLION(Agency Contact) (512) 239-1292 John.Vermillion@tceq.texas.gov		
Permit Notes:	VOC: THE MAIN SOURCES OF VOC (SPECIATED AND UNSPECIATED) IN THIS FACILITY ARE THE 5 DRYERS, THE PRESS, THERMAL OIL HEATER, COATING VENTS, AN UNLOADER VENT, AND FUGITIVE SOURCES. THE DRYER AND PRESS EXHAUSTS ARE VENTED TO RTOS. OTHER VOC EMISSIONS ARE HCHO, MDI, PHENOL, BENZENE, MINERAL OIL AND ISOPARAFFINIC HC. THESE ARE EMITTED IN VERY MINOR QUANTITIES AND WILL NOT REQUIRE ADDITIONAL CONTROL. PM: PM EMISSIONS, INCLUDING WOOD DUST FROM THE DRYERS, WILL BE CONTROLLED BY BOTH THE WESPS AND RTOS. PM FROM THE CORE BLENDER, HAMMER MILL, SAW MILL, RAW FUEL BIN AND THE FINISH FUEL BIN WILL BE CONTROLLED BY BAGHOUSES. PM FUGITIVE EMISSIONS FROM OTHER SOURCES WILL BE CONTROLLED BY VARIOUS MEANS LIKE ENCLOSURE AND WATER SPRAYING. CO, NOX AND SO2: THE SOURCES OF CO, NOX AND SO2 ARE THE DRYERS, PRESS VENTS AND COATING VENTS.		

THERE ARE ALSO CO EMISSIONS FROM THE UNLOADER VENT AND PRESS FUGITIVES. THE RTOS WILL COMBUST SOME OF THE CO FROM THE DRYERS. THE TEMPERATURE UNDER WHICH THE OXIDIZER OPERATES AND THE LOW-NOX BURNER WILL HELP CONTROL THE NOX AS WELL. THE SO2 EMISSION IS VERY LOW AND NO ADDITIONAL CONTROL WILL BE REQUIRED AT THIS TIME.

	Pollutant Name:	Facility-wide Emissions Increase:
Facility-wide Emissions:	Carbon Monoxide	233.4500 (Tons/Year)
	Nitrogen Oxides (NOx)	89.7000 (Tons/Year)
	Particulate Matter (PM)	36.6000 (Tons/Year)
	Sulfur Oxides (SOx)	1.0400 (Tons/Year)
	Volatile Organic Compounds (VOC)	74.8100 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: DRYER RTOS (2)

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 149.1400 LB/H

Emission Limit 2: 445.0300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 7.3400 LB/H
Emission Limit 2: 21.9000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 4.2000 LB/H
Emission Limit 2: 12.5300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 65.4000 LB/H

Emission Limit 2: 195.1600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 2.6800 LB/H

Emission Limit 2: 11.7400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.6500 LB/H
Emission Limit 2: 1.9500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYER BYPASS (2)

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 5.3400 LB/H
Emission Limit 2: 0.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 48.6000 LB/H
Emission Limit 2: 1.6200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 4.2000 LB/H
Emission Limit 2: 0.1400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 31.8000 LB/H
Emission Limit 2: 1.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 2.7200 LB/H
Emission Limit 2: 0.0900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS RTO
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.0200 LB/H
Emission Limit 2: 13.6900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.9400 LB/H
Emission Limit 2: 6.6300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 14.8300 LB/H
Emission Limit 2: 50.5700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 34.8400 LB/H
Emission Limit 2: 118.8100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2100 LB/H
Emission Limit 2: 0.7200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate
CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1000 LB/H
Emission Limit 2: 0.4400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol

CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 1.3600 LB/H
Emission Limit 2: 4.6400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS BYPASS
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.6600 LB/H
Emission Limit 2: 0.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:

Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.3300 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ASPIRATION SYSTEM BAGHOUSE
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.5000 LB/H
Emission Limit 2: 2.1700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 14.9600 LB/H
Emission Limit 2: 51.0300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0

Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4200 LB/H
Emission Limit 2: 1.4300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate
CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol
CAS Number: 108-95-2

Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 6.8800 LB/H
Emission Limit 2: 23.4700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RAW FUEL BIN COLLECTOR

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.4600 LB/H

Emission Limit 2: 2.0200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 7.6700 LB/H

Emission Limit 2: 26.1600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0500 LB/H
Emission Limit 2: 0.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1200 LB/H
Emission Limit 2: 0.4100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RAW FUEL BYPASS

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 3.4600 LB/H
Emission Limit 2: 0.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MATERIAL REJECT COLLECTOR

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.1500 LB/H

Emission Limit 2: 5.0200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 2.5400 LB/H

Emission Limit 2: 8.6500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: LAER

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0700 LB/H
Emission Limit 2: 0.2300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate
CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol
CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.3400 LB/H
Emission Limit 2: 1.1600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: TONGUE AND GROVE SANDER DUST COLLECTOR
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.9000 LB/H
Emission Limit 2: 3.9400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 1.4700 LB/H
Emission Limit 2: 5.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SANDERDUST RECEIVING BIN BAG
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4700 LB/H
Emission Limit 2: 5.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FINISH FUEL BIN COLLECTOR
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 5.7200 LB/H

Emission Limit 2: 19.5100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.5700 LB/H

Emission Limit 2: 2.4800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol

CAS Number: 67-56-1

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1100 LB/H

Emission Limit 2: 0.3700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL FUEL REGRIND COLLECTOR

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.3100 LB/H

Emission Limit 2: 1.3500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.9500 LB/H
Emission Limit 2: 3.2600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0675 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PF TANK (2)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MDI TANK (2)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate

CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: GASOLINE TANK

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2900 LB/H
Emission Limit 2: 0.6300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FUEL PILE (4)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.4000 LB/H

Emission Limit 2: 1.7600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.1700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: WET DECK (4)
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.9300 LB/H
Emission Limit 2: 0.4800 T/YR
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 4.7600 LB/H

Emission Limit 2: 2.4700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ROADWAYS

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.2100 LB/H
Emission Limit 2: 9.2100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.8200 LB/H
Emission Limit 2: 1.8000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: EXCESS FUEL SYSTEM

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0600 LB/H

Emission Limit 2: 0.1300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0200 LB/H

Emission Limit 2: 0.0400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATER BYPASS
Process Type: 19.600 (Misc. Boilers, Furnaces, Heaters)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2400 LB/H
Emission Limit 2: 1.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1700 LB/H

Emission Limit 2: 0.7600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 3.1400 LB/H

Emission Limit 2: 13.7400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 2.6400 LB/H
Emission Limit 2: 11.5400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: EMERGENCY GENERATOR

Process Type: 19.800 (Misc. Internal Combustion Engines)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.8500 LB/H

Emission Limit 2: 0.1900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1500 LB/H

Emission Limit 2: 0.0200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 11.8400 LB/H
Emission Limit 2: 1.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 3.2400 LB/H
Emission Limit 2: 0.3200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:	
Control Method:	(N)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Carbon Monoxide
CAS Number:	630-08-0
Test Method:	Unspecified
Pollutant Group(s):	(InOrganic Compounds)
Emission Limit 1:	5.4200 LB/H
Emission Limit 2:	0.5400 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(N)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME:	FIRE WATER PUMP
Process Type:	30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:	
Throughput:	
Process Notes:	

POLLUTANT NAME:	Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.3300 LB/H
Emission Limit 2: 0.0359 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2500 LB/H
Emission Limit 2: 0.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 3.5100 LB/H
Emission Limit 2: 0.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 1.2300 LB/H
Emission Limit 2: 0.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 1.2500 LB/H
Emission Limit 2: 0.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PAINT BOOTH
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.2200 LB/H
Emission Limit 2: 2.6700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:

Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.1800 LB/H
Emission Limit 2: 2.5800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: T&G PAINT BOOTH
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6500 LB/H
Emission Limit 2: 1.4200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4600 LB/H
Emission Limit 2: 3.1900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	TX-0446 (final)	**Date Determination Last Updated:**	07/02/2007
Corporate/Company Name:	LOUISIANA-PACIFIC CORPORATION	**Permit Number:**	P832M3
Facility Name:	JASPER ORIENTED STRANDBOARD MILL	**Permit Date:**	02/09/2004 (actual)
Facility Contact:	MR. STEVE DOFFITT 4093830767	**FRS Number:**	110009504759
Facility Description:	LOUISIANA-PACIFIC CORPORATION HAS APPLIED FOR AN AMENDMENT TO AUTHORIZE THE MODIFICATION OF ITS ORIENTED STRAND BOARD MILL IN JASPER, JASPER COUNTY TO PRODUCE 465,000,000 FT3 OF 3/8 INCH WAFER BOARD PER YEAR. THIS MAJOR MODIFICATION DOES NOT INCREASE THE ANNUAL PERMITTED ALLOWABLE EMISSIONS BUT THERE WILL BE INCREASES IN ACTUAL EMISSIONS. THE NET CHANGE OF ANNUAL EMISSIONS ARE SHOWN BELOW:	**SIC Code:**	2493
Permit Type:	U: Unspecified	**NAICS Code:**	332510
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	JASPER		
Facility State:	TX		
Facility ZIP Code:			

Permit Issued By: TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (Agency Name)
MR. JOHNNY VERMILLION(Agency Contact) (512) 239-1292 John.Vermillion@tceq.texas.gov

Permit Notes: VOC: THE MAIN SOURCES OF VOC (SPECIATED AND UNSPECIATED) IN THIS FACILITY ARE THE 5 DRYERS, THE PRESS, THERMAL OIL HEATER, COATING VENTS, AN UNLOADER VENT, AND FUGITIVE SOURCES. THE DRYER AND PRESS EXHAUSTS ARE VENTED TO RTOS. OTHER VOC EMISSIONS ARE HCHO, MDI, PHENOL, BENZENE, MINERAL OIL AND ISOPARAFFINIC HC. THESE ARE EMITTED IN VERY MINOR QUANTITIES AND WILL NOT REQUIRE ADDITIONAL CONTROL. PM: PM EMISSIONS, INCLUDING WOOD DUST FROM THE DRYERS, WILL BE CONTROLLED BY BOTH THE WESPS AND RTOS. PM FROM THE CORE BLENDER, HAMMER MILL, SAW MILL, RAW FUEL BIN AND THE FINISH FUEL BIN WILL BE CONTROLLED BY BAGHOUSES. PM FUGITIVE EMISSIONS FROM OTHER SOURCES WILL BE CONTROLLED BY VARIOUS MEANS LIKE ENCLOSURE AND WATER SPRAYING. CO, NOX AND SO2: THE SOURCES OF CO, NOX AND SO2 ARE THE DRYERS, PRESS VENTS AND COATING VENTS. THERE ARE ALSO CO EMISSIONS FROM THE UNLOADER VENT AND PRESS FUGITIVES. THE RTOS WILL COMBUST SOME OF THE CO FROM THE DRYERS. THE TEMPERATURE UNDER WHICH THE OXIDIZER OPERATES AND THE LOW-NOX BURNER WILL HELP CONTROL THE NOX AS WELL. THE SO2 EMISSION IS VERY LOW AND NO ADDITIONAL CONTROL WILL BE REQUIRED AT THIS TIME.

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	128.5400 (Tons/Year)
Nitrogen Oxides (NOx)	88.7800 (Tons/Year)
Particulate Matter (PM)	55.0200 (Tons/Year)
Sulfur Oxides (SOx)	0.9200 (Tons/Year)
Volatile Organic Compounds (VOC)	72.5100 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: DRYER RTOS

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 9.1700 LB/H

Emission Limit 2: 21.9000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 5.2500 LB/H

Emission Limit 2: 12.5300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 2.1800 LB/H
Emission Limit 2: 9.5500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 186.4300 LB/H
Emission Limit 2: 445.0300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.8200 LB/H
Emission Limit 2: 1.9500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 81.7500 LB/H
Emission Limit 2: 195.1600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYERS 1-5 BYPASS
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 28.0000 LB/H
Emission Limit 2: 2.8600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 20.0000 LB/H
Emission Limit 2: 2.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 40.5000 LB/H
Emission Limit 2: 4.0900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 4.1200 LB/H

Emission Limit 2: 1.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 26.5000 LB/H

Emission Limit 2: 3.2800 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 2.2700 LB/H
Emission Limit 2: 0.2300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS RTO

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.0200 LB/H
Emission Limit 2: 13.6900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.9400 LB/H
Emission Limit 2: 6.6300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 14.8300 LB/H
Emission Limit 2: 50.5700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 34.8400 LB/H
Emission Limit 2: 118.8100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2100 LB/H
Emission Limit 2: 0.7200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate
CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1000 LB/H
Emission Limit 2: 0.4400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol

CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 1.3600 LB/H
Emission Limit 2: 4.6400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS BYPASS
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.6600 LB/H
Emission Limit 2: 0.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.3300 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.3300 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 25.2700 LB/H
Emission Limit 2: 0.6300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 0.3700 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.3300 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 0.9000 LB/H
Emission Limit 2: 0.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.6800 LB/H
Emission Limit 2: 0.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate

CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0300 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol
CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.3400 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SAW LINE COLLECTOR

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.3400 LB/H

Emission Limit 2: 5.8900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 3.2700 LB/H

Emission Limit 2: 11.1400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SAW LINE BYPASS
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.0300 LB/H
Emission Limit 2: 0.2000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ASPIRATION SYSTEM BAGHOUSE

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.6200 LB/H

Emission Limit 2: 2.7100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 14.9600 LB/H

Emission Limit 2: 51.0300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.4200 LB/H

Emission Limit 2: 1.4300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate

CAS Number: 101-68-8

Test Method: Unspecified

Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.0100 LB/H

Emission Limit 2: 0.0100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol
CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 6.8800 LB/H
Emission Limit 2: 23.4700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RAW FUEL BIN COLLECTOR
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.5800 LB/H
Emission Limit 2: 2.5200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 7.6700 LB/H
Emission Limit 2: 26.1600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0500 LB/H
Emission Limit 2: 0.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1200 LB/H
Emission Limit 2: 0.4100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RAW FUEL BYPASS
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 3.4600 LB/H
Emission Limit 2: 0.3500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MATERIAL REJECT COLLECTOR
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.4300 LB/H
Emission Limit 2: 6.2800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 2.5400 LB/H
Emission Limit 2: 8.6500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0700 LB/H
Emission Limit 2: 0.2300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate
CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Phenol
CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol
CAS Number: 67-56-1
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.3400 LB/H
Emission Limit 2: 1.1600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: TONGUE AND GROVE SANDER DUST COLLECTOR
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.1200 LB/H
Emission Limit 2: 4.9300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4700 LB/H
Emission Limit 2: 5.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: T&G/SANDER TRANSFER BIG BAGHOUSE

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0200 LB/H

Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4700 LB/H
Emission Limit 2: 5.0200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FINISH FUEL BIN COLLECTOR
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.7100 LB/H

Emission Limit 2: 3.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 5.7200 LB/H

Emission Limit 2: 19.5100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Methanol

CAS Number: 67-56-1

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1100 LB/H

Emission Limit 2: 0.3700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL FUEL REGRIND COLLECTOR

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.3900 LB/H

Emission Limit 2: 1.6900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.9500 LB/H

Emission Limit 2: 3.2600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.9500 LB/H

Emission Limit 2: 3.2600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(N)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Methanol
CAS Number:	67-56-1
Test Method:	Unspecified
Pollutant Group(s):	(Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1:	0.0200 LB/H
Emission Limit 2:	0.0600 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(N)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME:	PF TANK (2)
Process Type:	30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:	

Throughput:

Process Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MDI TANK (2)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel: MDI

Throughput:

Process Notes:

POLLUTANT NAME: Methylene diphenyl diisocyanate

CAS Number: 101-68-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0100 LB/H
Emission Limit 2: 0.0100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: GASOLINE TANK

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.3000 LB/H

Emission Limit 2: 0.6600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DIESEL TANK

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1000 LB/H

Emission Limit 2: 0.0100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ROADWAYS

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.7700 LB/H
Emission Limit 2: 23.5900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.1000 LB/H
Emission Limit 2: 4.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FUEL PILE (4)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.1700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4000 LB/H
Emission Limit 2: 1.7600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: WET DECK (4)
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 14.3800 LB/H
Emission Limit 2: 6.3100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.4700 LB/H
Emission Limit 2: 1.9600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.4700 LB/H
Emission Limit 2: 1.9600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BARK HANDLING SYSTEM (4)

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.4700 LB/H

Emission Limit 2: 1.0200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.1600 LB/H

Emission Limit 2: 0.3600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL OIL HEATER BYPASS
Process Type: 19.600 (Misc. Boilers, Furnaces, Heaters)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2400 LB/H
Emission Limit 2: 1.0400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1700 LB/H
Emission Limit 2: 0.7600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 3.1400 LB/H
Emission Limit 2: 13.7400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 2.6400 LB/H
Emission Limit 2: 11.5400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: EMERGENCY GENERATOR

Process Type: 19.800 (Misc. Internal Combustion Engines)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 11.8400 LB/H

Emission Limit 2: 0.8900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 3.2400 LB/H

Emission Limit 2: 0.2400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 5.4200 LB/H
Emission Limit 2: 0.4100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.5000 LB/H
Emission Limit 2: 0.3400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:

Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1500 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FIRE WATER PUMP
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.5800 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.1800 LB/H
Emission Limit 2: 0.0100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102

Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 4.5400 LB/H
Emission Limit 2: 0.2300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 4.5400 LB/H
Emission Limit 2: 0.2300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5

Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 1.1800 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PAINT BOOTH

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6800 LB/H
Emission Limit 2: 1.4900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.5400 LB/H
Emission Limit 2: 3.3700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: T&G PAINT BOOTH

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6500 LB/H
Emission Limit 2: 1.4200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4600 LB/H
Emission Limit 2: 3.1900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	AR-0059 (final)	**Date Determination Last Updated:**	06/30/2003
Corporate/Company Name:	GEORGIA-PACIFIC ORIENTED STRANDBOARD FACILITY	**Permit Number:**	1803-AOP-R2
Facility Name:	GEORGIA-PACIFIC ORIENTED STRANDBOARD FACILITY	**Permit Date:**	01/07/2003 (actual)
Facility Contact:	PAUL VASQUEZ (404) 652-3564	**FRS Number:**	110012704029
Facility Description:	ORIENTED STRANDBOARD FACILITY. LOGS, RESIN, AND WAX ARE THE PRIMARY RAW MATERIALS USED IN OSB PANEL PRODUCTION. THE PRODUCTION PROCESS IS COMPRISED OF FOUR PRINCIPAL MANUFACTURING PROCESSES: (1) FURNISH PRODUCTION, WHICH INCLUDES DEBARKING, SLASHING, AND FLAKING; (2) FLAKE DRYING; (3) FORMING AND PRESSING; AND (4) FINISHING, WHICH CONSISTS OF SAWING AND SANDING.	**SIC Code:**	2493
Permit Type:	D: Both B (Add new process to existing facility) &C (Modify process at existing facility)	**NAICS Code:**	321219
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	CALHOUN		
Facility State:	AR		
Facility ZIP Code:	71742		
Permit Issued By:	ARKANSAS DEPT OF ENVIRONMENTAL QUALITY (Agency Name) MR. TOM RHEAUME(Agency Contact) (501) 682-0762 rheaume@adeq.state.ar.us		
Other Agency Contact Info:	MICHAEL WATT 8001 NATIONAL DRIVE LITTLE ROCK, AR 72219-8913 501 682-0742		
Permit Notes:	GEORGIA-PACIFIC CORPORATION (GP) OWNS AND OPERATES AN ORIENTED STRANDBOARD (OSB) FACILITY NEAR FORDYCE, ARKANSAS. THIS FACILITY CURRENTLY HAS THE CAPACITY TO PRODUCE 475 MILLION SQUARE FEET (MMSF), ON A 3/8-INCH BASIS, OF OSB ANNUALLY. THIS FACILITY INCLUDES FIVE DRYERS, A PRESS, AND ASSOCIATED MATERIALS HANDLING EQUIPMENT. THE DRYERS AND PRESS ARE CURRENTLY CONTROLLED BY THREE REGENERATIVE THERMAL OXIDIZERS (RTOS). TWO OF THE RTOS ARE DEDICATED TO THE DRYERS AND THE THIRD CONTROLS EMISSIONS FROM THE PRESS. PARTICULATE MATTER EMISSIONS RESULTING FROM MATERIAL HANDLING ARE CONTROLLED BY A SERIES OF BAG FILTERS. THIS MODIFICATION MAKES THE FOLLOWING CHANGES: INCREASES THE PERMITTED CAPACITY OF THE PLANT FROM 475 MILLION SQUARE FEET ON A 3/8-INCH BASIS OF OSB TO 600 MILLION SQUARE FEET OF OSB ON A 3/8-INCH BASIS. THIS INCREASE IN THROUGHPUT IS A RESULT OF UNDER-ESTIMATION OF INITIAL EQUIPMENT CAPACITY. NO NEW EQUIPMENT IS BEING ADDED TO ACHIEVE THIS INCREASE, ALLOWS FOR GP TO CONVERT THE PRESS RTO (SN-02) TO A THERMAL CATALYTIC OXIDIZER (TCO) BY ADDING CATALYTIC MEDIA ABOVE THE EXISTING CERAMIC MEDIA, INCREASES THE CO EMISSION RATES ON THE DRYER (SN-01) TO ALLOW FOR A LOWER RTO SET TEMPERATURE. THE DRYER RTO SET TEMPERATURES WILL CHANGE FROM 1630 TO 1550 DEGREES FAHRENHEIT IN AN EFFORT TO SLOW DETERIORATION OF THE CERAMIC MEDIA, AND UPDATES AP-42 EMISSION FACTORS FOR WOOD COMBUSTION AND OSB MANUFACTURING (SECTIONS 1.6 AND 10.6 RESPECTIVELY).		

Facility-wide Emissions:	Pollutant Name:	Facility-wide Emissions Increase:
	Carbon Monoxide	1179.2000 (Tons/Year)
	Nitrogen Oxides (NOx)	380.3000 (Tons/Year)
	Particulate Matter (PM)	751.8000 (Tons/Year)
	Sulfur Oxides (SOx)	30.7000 (Tons/Year)
	Volatile Organic Compounds (VOC)	810.4000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: PRESS, ORIENTED STRANDBOARD

Process Type: 30.520 (Board Presses.)

Primary Fuel: WOOD WASTE

Throughput: 600.00 MMSF/YR

Process Notes: IN THE PRESS, DRIED WOOD FLAKES ARE BLENDED WITH RESIN AND WAX, AND ARE THEN PLACED AS A MAT ON THE FORMING LINE IN LAYERS, ORIENTED AT RIGHT ANGLES, TO PROVIDE STRUCTURAL INTEGRITY. THE MAT IS THEN MOVED INTO THE THERMAL-OIL- HEATED PRESS, WHERE IT IS COMPRESSED AND HEATED TO BOND THE RESIN TO THE FLAKES. THE THERMAL OIL IS HEATED TO THE APPROPRIATE TEMPERATURE IN A SEPARATE SYSTEM, CONSISTING OF TWO, WOOD FUEL, SUSPENSION-TYPE BURNERS. THE EXHAUST GASES FROM THE BURNERS ARE ROUTED THROUGH THE DRYER SYSTEM. AIR POLLUTANT EMISSIONS ASSOCIATED WITH THE BOARD PRESS OPERATION INCLUDE PM, VOCS, CO, NOX AND FORMALDEHYDE. BACT AND MACT FOR THIS SOURCE HAS BEEN DETERMINED TO BE A SHARED SYSTEM OF MULTICLONES FOLLOWED BY A THERMAL CATALYTIC OXIDIZER (TCO).

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 25.3000 LB/H

Emission Limit 2: 110.7000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) RTO/TCO

Est. % Efficiency: 90.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 9.2000 LB/H
Emission Limit 2: 40.4000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/TCO
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 13.5000 LB/H
Emission Limit 2: 59.2000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 3.5000 LB/H
Emission Limit 2: 15.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) MULTI CLONES, RTO/TCO
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde

CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 0.5000 LB/H
Emission Limit 2: 2.2000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (A) RTO/TCO
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: ROTARY CHIP DRYER, (5)

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD WASTES

Throughput: 600.00 MMSF/YR

Process Notes: THIS SOURCE CONSISTS OF FIVE FLAKE DRYERS. EACH DRYER IS A HORIZONTAL, CYLINDRICAL ROTARY DRUM HEATED BY SUSPENSION- TYPE BURNERS AND A PNEUMATIC SYSTEM WHICH CONVEYS THE FLAKES THROUGH THE DRYERS. THE BURNERS BURN GROUND WOOD FUEL FROM THE HAMMERMILL. EACH DRYER HAS A MAXIMUM HEAT INPUT OF 40 MILLION BTU PER HOUR. BACT AND MACT FOR THIS SOURCE HAS BEEN DETERMINED TO BE A SHARED SYSTEM OF MULTICLONES FOLLOWED BY TWO PARALLEL REGENERATIVE THERMAL OXIDIZERS (RTOS). ALL EMISSIONS ARE PER DRYER.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 52.0000 LB/H
Emission Limit 2: 227.8000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/MULTICLONES WITH A SET POINT TEMPERATURE OF 1550 F
Est. % Efficiency: 40.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 31.9000 LB/H
Emission Limit 2: 139.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/MULTICLONES WITH A SET POINT TEMPERATURE OF 1550 F
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 18.8200 LB/H
Emission Limit 2: 82.4000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/MUTICLONES WITH A SET POINT TEMPERATURE OF 1550 F
Est. % Efficiency: 80.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Yes
Pollutant/Compliance Notes:

POLLUTANT NAME:	Nitrogen Oxides (NOx)
CAS Number:	10102
Test Method:	Unspecified
Pollutant Group(s):	(InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1:	14.6600 LB/H
Emission Limit 2:	64.2200 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(P) LOW NOX BURNER
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Yes
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Formaldehyde
CAS Number:	50-00-0
Test Method:	Unspecified
Pollutant Group(s):	(Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1:	0.5000 LB/H
Emission Limit 2:	2.3600 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	MACT
Other Applicable Requirements:	MACT
Control Method:	(A) RTO
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Yes
Pollutant/Compliance Notes:	

Facility Information

RBLC ID:	MI-0353 (final)	**Date Determination**	
		Last Updated:	12/12/2002
Corporate/Company Name:	WEYERHAEUSER	**Permit Number:**	525-94B
Facility Name:	WEYERHAEUSER	**Permit Date:**	06/11/2002 (actual)
Facility Contact:	THOMAS MOSHER 989-348-3447	**FRS Number:**	110017417259
Facility Description:	ORIENTED STRAND BOARD PLANT	**SIC Code:**	2493
Permit Type:	D: Both B (Add new process to existing facility) &C (Modify process at existing facility)	**NAICS Code:**	321219
Permit URL:			
EPA Region:	5	**COUNTRY:**	USA
Facility County:	CRAWFORD		
Facility State:	MI		
Facility ZIP Code:	49738		

Permit Issued By: MICHIGAN DEPT OF ENVIRONMENTAL QUALITY (Agency Name)
MS. CINDY SMITH(Agency Contact) (517)241-7461 SMITHC17@MICHIGAN.GOV

Other Agency Contact Info: DAVE FERRIER
MI
(517) 373-7023

Permit Notes: MI SRN: B7302. The company is making changes to 1995 permit number 535-94, described in RBLC ID MI-0311. New burners will allow greater utilization of available wood fuel, and increased plant production. Allowed emissions are being decreased; actual emissions increase. Permit is PSD for NOx, CO, and VOC. A Major Modification. additional facility wide emissions (t/yr): HCHO = 166.9; phenol = 2.2; BaP = 0.053; Acetaldehyde = 8.3.

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
INTL BORDER		US/Canada Border	100km - 50km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	720.0000 (Tons/Year)
Nitrogen Oxides (NOx)	131.6000 (Tons/Year)
Particulate Matter (PM)	196.0000 (Tons/Year)
Sulfur Oxides (SOx)	21.9000 (Tons/Year)
Volatile Organic Compounds (VOC)	166.9000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: DRYERS AND BURNERS, WOOD CHIP

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD

Throughput: 108000.00 LB/H

Process Notes: Throughput is total for four dryers. Exhaust recirculation available. Four wood fired burners and four gas burners; each rated 40 mmBTU/h. Thermal oil heater exhaust is being separated out. Additional emission limit for acetaldehyde: 1.9 lb/h, based on three 1-h samples, controlled by an RTO.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 290.0000 PPMDV 24-h avg

Emission Limit 2: 147.3000 LB/H 24-h avg

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZER

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: Additional limits (1-h avg): 676 ppmd ; 343.7 lb/h. Short term limits are based on 3 1-hr tests.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.0300 GR/DSCF

Emission Limit 2: 29.8000 LB/H

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET ESP AND RTO.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: Additional limit: 136.4 t/12 mo. RTO may be bypassed for maintenance, limits become 0.057 gr/dscf and 56.6 lb/h.

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))

Emission Limit 1: 4.3000 PPMDV

Emission Limit 2: 5.0000 LB/H

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: Additional limit: 21.9 t/y. Short term limits are based on 3 1-hr tests. 12 month limits are rolling averages.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 27.8000 PPMDV 3-h rolling avg

Emission Limit 2: 23.1500 LB/H 3-h rolling avg

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) LOW EXCESS-AIR FIRING
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: additional limit: 101.4 t/yr, 12 mo rolling avg.

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 18.6000 LB/H as C, 30-d rolling avg
Emission Limit 2: 81.5000 T/YR 12-mo rolling avg.
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Formaldehyde
CAS Number: 50-00-0
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 2.4000 LB/H three 1-hr samples
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:

Control Method: (A) RTO
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Benzo(a)pyrene
CAS Number: 50-32-8
Test Method: Unspecified
Pollutant Group(s): (Organic Compounds (all) , Organic Non-HAP Compounds)
Emission Limit 1: 0.0120 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (A) RTO
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: limit based on three or four 1-h samples

Process/Pollutant Information

PROCESS NAME: PRESSES, OSB LINE
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput:
Process Notes: wood chips are formed into sheets. Biological air filter (BAF) is principally for odor control. VOC and CO limits are unchanged from MI-0311, permit no. 535-94.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0100 GR/DSCF 3-h avg
Emission Limit 2: 8.4000 LB/H 3-h avg
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BIOLOGICAL AIR FILTER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: Emission limits 1&2 and 12-mo rolling avg limit: 34.1 t/yr, apply when BAF is operating. When BAF is not operating, limits are: 24.7 lb/h and 8 t/yr.

POLLUTANT NAME: Phenol

CAS Number: 108-95-2
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1: 1.3000 MG/DSCM
Emission Limit 2: 2.3000 LB/H
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (A) BAF
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME:	Formaldehyde
CAS Number:	50-00-0
Test Method:	Unspecified
Pollutant Group(s):	(Hazardous Air Pollutants (HAP) , Organic Compounds (all) , Volatile Organic Compounds (VOC))
Emission Limit 1:	6.2000 MG/DSCM 3-h avg
Emission Limit 2:	2.3000 LB/H 3-h avg
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	Other Case-by-Case
Other Applicable Requirements:	
Control Method:	(A) BIOLOGICAL AIR FILTER
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Facility Information

RBLC ID:	SC-0074 (final)	**Date Determination Last Updated:**	01/13/2003
Corporate/Company Name:	KRONOTEX, USA, INC. - BARNWELL	**Permit Number:**	0300-0031
Facility Name:	KRONOTEX	**Permit Date:**	04/08/2002 (actual)
Facility Contact:	NORM VOSS 803-224-9100 NVOSS@KRONOTEXUSA.COM	**FRS Number:**	110005975061
Facility Description:	KRONOTEX, USA INC. (KRONOTEX) PROPOSES TO CONSTRUCT A COMPOSITE WOOD PANEL MANUFACTURING FACILITY NEAR BARNWELL, SOUTH CAROLINA. THE FACILITY WILL CONSIST OF A PARTICLEBOARD (PB) PLANT (SIC 2493), MEDIUM DENSITY FIBERBOARD (MDF) PLANT (SIC 2493), PAPER TREATING PLANT (SIC 2672), LAMINATING PLANT (SIC 2493), FLOORING PLANT (SIC 2493), AND CUT-TO SIZE PLANT (SIC 2493). THE MAJOR SIC FOR THE FACILITY WILL BE 2493. SOME OF THE PRODUCTS, SUCH AS FLOORING, WILL HAVE DECORATIVE COATINGS FORMED BY LAMINATING TREATED PAPER TO A PB OR MDF SUBSTRATE.	**SIC Code:**	2493
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	
Permit URL:			

EPA Region: 4 **COUNTRY:** USA

Facility County: BARNWELL

Facility State: SC

Facility ZIP Code: 29812

Permit Issued By: SOUTH CAROLINA DEPT OF HEALTH & ENV CTRL, BUREAU OF AIR QUALITY (Agency Name)
MR. DENNIS CAMIT(Agency Contact) (803)898-4284 camitdr@dhec.sc.gov

Other Agency Contact Info: STUART LATTA
SC
(803) 898-4410

Permit Notes:

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	348.3700 (Tons/Year)
Nitrogen Oxides (NOx)	963.5900 (Tons/Year)
Particulate Matter (PM)	230.9100 (Tons/Year)
Volatile Organic Compounds (VOC)	270.2500 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: DRYER, PB, ROT, SINGLE PASS

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: NAT GAS

Throughput: 578861.00 ODT/YR

Process Notes: SOURCE TESTING FOR NOX & CO. SCRUB MAINTENANCE FOR PM. CONTINUOUS CONTROL DEVICE COMBUSTION CHAMBER TEMP. MONITORING FOR VOCS & HAPS. UNIT IS BOTH LAER & BACT FOR VOCS.

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP))

Emission Limit 1: 2.3040 LB/H

Emission Limit 2: 10.0900 T/YR

Standard Emission: 0.0460 LB/ODT

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT

Other Applicable Requirements: MACT

Control Method: (A) RTO WITH 100% CAPTURE & 95% EFF.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.1900 LB/H
Emission Limit 2: 5.2100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) A WET SCRUB FOLLOWED BY AN RTO
Est. % Efficiency: 90.000
Cost Effectiveness: 190.5 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 29.6000 LB/H
Emission Limit 2: 129.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: LAER
Other Applicable Requirements:

Control Method: (A) RTO WITH 100% CAPTURE & 95% EFF.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 154.6800 LB/H
Emission Limit 2: 677.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) AN INTEGRATED COMBIN OF COMBUS CONT (PLC), LOW NOX BURNERS (LNB) AND FLUE GAS RECIRCULATION (FGR) FOR GAS/DUST BURNERS. FOR THE WET FUEL COMBUSTS, BACT IS A INTEGRATED COMBIN W/A NOX REDUCT OF >50%
Est. % Efficiency: 41.700
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) COMBUSTION CONTROL (PLC) FOR THE DRYER HEAT SOURCES AND AN RTO FOR DRYER EXHAUST GASES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYER, MDF, TUBE

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: NAT GAS

Throughput: 454611.00 ODT/YR

Process Notes: SOURCE TESTING FOR NOX & CO. SCRUB MAINTENANCE FOR PM. CONTINUOUS CONTROL DEVICE COMBUSTION CHAMBER TEMP. MONITORING FOR VOCS & HAPS. UNIT IS BOTH LAER & BACT FOR VOCS.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 18.1600 LB/H

Emission Limit 2: 79.5200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: LAER

Other Applicable Requirements:

Control Method: (A) RTO WITH 100% CAPTURE & 95% EFF.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 7.6700 LB/H
Emission Limit 2: 33.6000 T/YR
Standard Emission: 0.2600 LB/ODT
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (A) CAPTURE PLUS 95% THERMAL DESTRUCTION
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 66.8500 LB/H
Emission Limit 2: 292.8000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) FOR THE GAS BURNER, BACT IS A CONTROL PACKAGE INCLUDING PLC, LNB, & FGR FOR A NOX REDUCTION OF 30.5%. FOR THE WET FUEL COMBUSTOR, THE CONTROL TECHNOLOGY BACT PACKAGE REDUCES NOX > 50%
Est. % Efficiency: 50.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.4000 LB/H

Emission Limit 2: 6.1300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) WET SCRUB FOLLOWED BY AN RTO.

Est. % Efficiency: 90.000

Cost Effectiveness: 139742 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: LB/H

Emission Limit 2: T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) COMBUSTION CONTROLS (PLC) FOR THE DRYER HEAT SOURCES AND AN RTO FOR THE DRYER EXHAUST GASES.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS, CONTINUOUS, PB
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput: 433620.00 MSF/YR-3/4
Process Notes: CONTROLLED BY AN RTO/TCO UNIT.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2673 LB/H
Emission Limit 2: 1.1700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/TCO UNIT. THIS UNIT IS BEING PUT ON PRIMARILY FOR VOC/HAP CONTROL.
Est. % Efficiency: 80.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 6.1300 LB/H
Emission Limit 2: 26.8300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) TCO. 90% CAPTURE & 95% EFF.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP))

Emission Limit 1: 3.8400 LB/H

Emission Limit 2: 16.8200 T/YR

Standard Emission: 0.3000 LB/MSF-3/4

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT

Other Applicable Requirements: MACT

Control Method: (A) RTO/TCO UNIT WITH 90% CAPTURE & 95% EFF.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS, CONTINUOUS, MDF

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput: 273312.00 MSF/YR-3/4

Process Notes: CONTROLLED BY AN RTO/TCO UNIT.

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 2.2500 LB/H
Emission Limit 2: 9.8800 T/YR
Standard Emission: 0.3000 LB/MSF-3/4
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (A) RTO/TCO UNIT WITH 90% CAPTURE & 95% EFF.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2673 LB/H
Emission Limit 2: 1.1700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO/TCO UNIT. THIS UNIT IS BEING PUT ON PRIMARILY FOR VOC/HAP CONTROL.
Est. % Efficiency: 80.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME:	Volatile Organic Compounds (VOC)
CAS Number:	VOC
Test Method:	Unspecified
Pollutant Group(s):	(Volatile Organic Compounds (VOC))
Emission Limit 1:	2.6400 LB/H
Emission Limit 2:	11.5600 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) RTO/TCO UNIT WITH 90% CAPTURE & 95% EFF.
Est. % Efficiency:	95.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME:	RTO, DRYER, PB
Process Type:	30.530 (Board Mfg. Dryers)
Primary Fuel:	NAT GAS
Throughput:	
Process Notes:	

POLLUTANT NAME:	Hazardous Air Pollutants (HAP)
CAS Number:	HAP
Test Method:	Unspecified
Pollutant Group(s):	(Hazardous Air Pollutants (HAP))
Emission Limit 1:	0.0588 LB/H
Emission Limit 2:	0.2580 T/YR
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT

Other Applicable Requirements: MACT

Control Method: (P) EXCLUSIVE USE OF NAT GAS AS FUEL & 95% HEAT RECOVERY.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 14.2030 LB/H

Emission Limit 2: 62.2100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) COMBUSTION CONTROL (PLC).

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 11.6600 LB/H

Emission Limit 2: 51.0900 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) LOW NOX BURNERS & 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RTO/TCO, PRESS, PB

Process Type: 30.520 (Board Presses.)

Primary Fuel: NAT GAS

Throughput:

Process Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 16.6940 LB/H
Emission Limit 2: 73.1200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 13.7100 LB/H
Emission Limit 2: 60.0500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS PLUS 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 0.0027 LB/H
Emission Limit 2: 0.0120 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (P) EXCLUSIVE USE OF NAT GAS AS FUEL & 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RTO/TCO, PRESS, MDF

Process Type: 30.520 (Board Presses.)

Primary Fuel: NAT GAS

Throughput:

Process Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 16.6940 LB/H

Emission Limit 2: 73.1200 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 13.7100 LB/H

Emission Limit 2: 60.0500 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS & 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 0.0027 LB/H
Emission Limit 2: 0.0120 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (P) NAT GAS AS FUEL & 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: WOOD DUST SYSTEM
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:

Process Notes: MAINTENANCE PROGRAM FOR CONTROL DEVICES. AIR LOCK, VISUAL AND MAINTENANCE INSPECTIONS OF THE PNEUMATIC CONVEYING SYSTEMS.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0050 GR/DSCFM
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTRATION WITH MAX. OUTLET LOADING OF 0.05 GR/DSCFM FOR BIN VENTS, WITH ALL OTHERS AT 0.005 GR/DSCFM
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PAPER TREATING LINES, 2

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput: 385668.00 MSF/YR EA

Process Notes: CONTROL DEVICE CONT COMBUSTION CHAMBER TEMP MONITORING FOR VOCS & HAPS.

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.4100 LB/H EA
Emission Limit 2: 6.1700 T/YR EA

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: LAER

Other Applicable Requirements:

Control Method: (B) USE OF LOW VOC/HAP RESINS, CAPTURE & 95% THERMAL OXIDATION.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP))

Emission Limit 1: 0.4920 LB/H EA

Emission Limit 2: 2.1550 T/YR EA

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT

Other Applicable Requirements: MACT

Control Method: (B) MACT IS THE USE OF LOW VOC/HAP RESINS, LAER CONTROLS FOR VOCS, WHICH IS CAPTURE & 95% THERMAL OXIDATION, WILL ALSO BE USED.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD COOLER, PB

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 433620.00 MSF/YR-3/4

Process Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.5600 LB/H
Emission Limit 2: 6.8300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: LAER
Other Applicable Requirements:
Control Method: (A) 100% CAPTURE & 95% THERMAL DESTRUCTION.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 0.4280 LB/H
Emission Limit 2: 1.8700 T/YR
Standard Emission: 0.0150 LB/MSF-3/4
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (A) 100% CAPTURE & 95% THERMAL DESTRUCTION.
Est. % Efficiency: 95.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD COOLER, MDF

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 273312.00 MSF/YR-3/4

Process Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP

Test Method: Unspecified

Pollutant Group(s): (Hazardous Air Pollutants (HAP))

Emission Limit 1: 0.2100 LB/H

Emission Limit 2: 0.9300 T/YR

Standard Emission: 0.0150 LB/MSF-3/4

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT

Other Applicable Requirements: MACT

Control Method: (A) 100% CAPTURE & 95% THERMAL DESTRUCTION.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.3510 LB/H

Emission Limit 2: 1.5400 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: LAER

Other Applicable Requirements:

Control Method: (A) 100% CAPTURE & 95% THERMAL DESTRUCTION.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: HEATERS, THERMAL OIL, 2

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel: NAT GAS

Throughput: 41.00 MMBTU/H EACH

Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.6100 LB/H

Emission Limit 2: 2.6720 T/YR

Standard Emission: 0.6000 LB/MBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) EXCLUSIVE USE OF NAT GAS AS FUEL.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4420 LB/H
Emission Limit 2: 1.9400 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) EXCLUSIVE USE OF NAT GAS AS FUEL & COMBUSTION CONTROL STOICHIOMETRY (PLC).
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 0.0600 LB/H
Emission Limit 2: 0.2600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (P) EXCLUSIVE USE OF NAT GAS AS FUEL & COMBUSTION CONTROL STOICHIOMETRY (PLC).
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 6.7600 LB/H

Emission Limit 2: 29.6100 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 6.3600 LB/H

Emission Limit 2: 27.8600 T/YR

Standard Emission: 0.0776 LB/MMBTU

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) COMBINATION OF NO AIR PRE-HEAT, COMBUSTION CONTROL (PLC), LOW NOX BURNERS (LNB) AND FLUE GAS RECIRCULATION (FGR).

Est. % Efficiency: 60.600

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RTO, DRYER, MDF

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: NAT GAS

Throughput:

Process Notes: WILL SOURCE TEST FOR NOX, CO & SO2.

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 13.1200 LB/H
Emission Limit 2: 57.4500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS & 95 % HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 15.9700 LB/H
Emission Limit 2: 69.9600 T/YR
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) COMBUSTION CONTROL STOICHIOMETRY (PLC)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Hazardous Air Pollutants (HAP)

CAS Number: HAP
Test Method: Unspecified
Pollutant Group(s): (Hazardous Air Pollutants (HAP))
Emission Limit 1: 0.0588 LB/H
Emission Limit 2: 0.2580 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: MACT
Other Applicable Requirements: MACT
Control Method: (P) EXCLUSIVE USE OF NAT GAS AS FUEL & 95% HEAT RECOVERY.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID: TX-0345 (final)

Date Determination Last Updated: 10/21/2003

Corporate/Company Name: TEMPLE-INLAND FOREST PRODUCTS CORPORATION

Permit Number: PSD-TX-865

Facility Name:	DIBOLL PARTICLEBOARD OPERATION	**Permit Date:**	09/28/2001 (actual)
Facility Contact:	G WAYNE HARDY 409-829-1444	**FRS Number:**	110000458709
Facility Description:	TEMPLE-INLAND FOREST PRODUCTS CORP (TIFPC) OPERATES A PARTICLE BOARD PLANT. THE COMPANY REQUESTS THAT THE PERMITTED EMISSIONS RATES BE AMENDED TO MORE ACCURATELY REFLECT THE ACTUAL EMISSIONS AND PROPOSES TO INCREASE PRODUCTION THROUGH THE PARTICLEBOARD PLANT. IN ADDITION, THERE WILL BE CONTROL DEVICES ADDED TO THE DRYERS. FISCHER-KLOSTERMAN HIGH-EFFICIENCY CYCLONES WILL BE ADDED TO DRYERS 3 & 4. ALSO, A VALVELESS REGENERATIVE THERMAL OXIDIZER (VRTO) WILL FOLLOW THE PARTICULATE CONTROL DEVICE ON DRYER 3. NO VISIBLE FUGITIVE PARTICULATE EMISSIONS SHALL LEAVE THE PLANT PROPERTY. DISPOSAL OF ASH MUST BE ACCOMPLISHED IN A MANNER WHICH WILL PREVENT THE ASH FROM BECOMING AIRBORNE. THERE SHALL BE NO OUTSIDE STORAGE OF SAWDUST MATERIAL. IN ORDER TO MINIMIZE FUGITIVE DUST EMISSIONS, THE HOLDER OF THIS PERMIT SHALL PERIODICALLY CLEAN AND/OR WASH THE TRUCK DUMP AREA. ALL WOOD DUST AND WOOD WASTES COLLECTED FROM THESE AREAS SHALL BE PROPERLY HANDLED TO PREVENT RE-ENTRAINMENT OF WOOD DUST INTO THE AIR. THE BURNER COVERED BY THIS PERMIT SHALL NOT OPERATE UNLESS THE ASSOCIATED DRYER'S AIR POLLUTION ABATEMENT EQUIPMENT IS IN GOOD WORKING ORDER. IF PARTICULATE NUISANCE CONDITIONS OCCUR, ADDITIONAL CONTROLS MAY BE REQUIRED. FOR THE PURPOSE OF DETERMINING OPERATIONAL REQUIREMENTS OF THE PROPOSED PROJECT, THE PLANT MAY EXHAUST DRYER NO. 3 THROUGH THE PILOT CONTROL DEVICE. THE TESTING PROGRAM SHALL NOT CONTINUE BEYOND SIX MONTHS AFTER THE INITIAL STARTUP OF THE PILOT CONTROL DEVICE.	**SIC Code:**	2493
Permit Type:	D: Both B (Add new process to existing facility) &C (Modify process at existing facility)	**NAICS Code:**	321219
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	ANGELINA		
Facility State:	TX		
Facility ZIP Code:	75941		
Permit Issued By:	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) (Agency Name) MR. JOHNNY VERMILLION(Agency Contact) (512) 239-1292 John.Vermillion@tceq.texas.gov		
Other Agency Contact Info:	WAYNE DAVIDSON TX (512) 451-5711		
Permit Notes:	RECONSTITUTED WOOD PRODUCT MANUFACTURING. EMISSION RATES ARE BASED ON, AND FACILITY IS LIMITED TO, A MAXIMUM HOURLY RATE OF 31070 SQFT AND A MAXIMUM ANNUAL RATE OF 175000000 SQFT OF PARTICLE BOARD PRODUCED. PRODUCTION RATE IS BASED ON A 3/4 IN EQUIVALENT THICKNESS OF PARTICLE BOARD.		

Process/Pollutant Information

PROCESS NAME: (2) FEED MATERIAL DRYERS NOS 1-4, PB-40&-41

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes: 4 DRYERS BUT ONLY TWO STACKS

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 10.0000 % OPACITY 6 MIN AV

Emission Limit 2:

Standard Emission: 10.0000 % OPACITY 6 MIN AV

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A

Other Applicable Requirements: SIP

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.3000 LB/H EACH UNIT

Emission Limit 2: 3.3000 T/YR EACH UNIT

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) NONE INDICATED

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.3000 LB/H EACH UNIT
Emission Limit 2: 3.3000 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 30.0600 LB/H EACH UNIT
Emission Limit 2: 75.8500 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SANDER DUST BOILER, PB-44

Process Type: 13.120 (Biomass (includes wood, wood waste, bagasse, and other biomass))

Primary Fuel: WOOD

Throughput: 40.00 MMBTU/H

Process Notes: FUEL: EITHER PIPELINE SWEET NAT GAS (SUPPLEMENTAL) CONTAINING NO MORE THAN 5 GR S AND 0.25 GR H2S /100 DSCF OR WOOD CONTAINING NO MORE THAN 5% MOISTURE.

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.4800 LB/H
Emission Limit 2: 2.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 57.2000 LB/H
Emission Limit 2: 250.5000 T/YR
Standard Emission: 1.4300 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: STANDARD EMISSIONS CALCULATED FROM HEAT RATING AND HOURLY EMISSION LIMIT

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0900 LB/H
Emission Limit 2: 0.8000 T/YR
Standard Emission: 0.0020 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: STANDARD EMISSIONS CALCULATED FROM HEAT RATING AND HOURLY EMISSION LIMIT

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 186.8000 LB/H
Emission Limit 2: 818.2000 T/YR
Standard Emission: 4.6700 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: STANDARD EMISSIONS CALCULATED FROM HEAT RATING AND HOURLY EMISSION LIMIT

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 11.6000 LB/H
Emission Limit 2: 50.8000 T/YR
Standard Emission: 0.2900 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) ELECROSTATIC PRECIPITATOR
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: STANDARD EMISSIONS CALCULATED FROM HEAT RATING AND HOURLY EMISSION LIMIT

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 11.6000 LB/H
Emission Limit 2: 50.8000 T/YR
Standard Emission: 0.2900 LB/MMBTU
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) ELECTROSTATIC PRECIPITATOR
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes: STANDARD EMISSIONS CALCULATED FROM HEAT RATING AND HOURLY EMISSION LIMIT

Process/Pollutant Information

PROCESS NAME: SANDER DUST FUEL BIN, PB-46

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput:

Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 10.0000 % OPACITY 6 MIN AV

Emission Limit 2:

Standard Emission: 10.0000 % OPACITY 6 MIN AV

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A

Other Applicable Requirements: SIP

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.6800 LB/H

Emission Limit 2: 1.9000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6800 LB/H
Emission Limit 2: 1.9000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: (2) DRYERS NO 1 & 2, PB-47 & -48
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput:
Process Notes: DIRECT HEAT. INLET DRYER TEMP BETWEEN 600-800 F.

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE

Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: % OPACITY
Emission Limit 2:
Standard Emission: % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 4.6200 LB/H
Emission Limit 2: 11.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 5.5000 LB/H EACH UNIT
Emission Limit 2: 13.1000 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 5.5000 LB/H EACH UNIT
Emission Limit 2: 13.1000 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC

Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 10.5800 LB/H EACH UNIT
Emission Limit 2: 25.3000 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0500 LB/H EACH UNIT
Emission Limit 2: 0.1500 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0

Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 4.3200 LB/H EACH UNIT
Emission Limit 2: 10.3000 T/YR EACH UNIT
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYER NO 3, PB-49

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel:

Throughput:

Process Notes: DIRECT HEAT. INLET DRYER TEMP 600-800F

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1700 LB/H
Emission Limit 2: 26.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) CYCLONE AND BAGHOUSE

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0700 LB/H
Emission Limit 2: 0.1500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1700 LB/H
Emission Limit 2: 26.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) CYCLONE AND BAGHOUSE

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 3.3300 LB/H
Emission Limit 2: 7.3000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) VALVELESS REGENERATIVE THERMAL OXIDIZER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 10.6000 LB/H
Emission Limit 2: 35.4000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 5.9000 LB/H
Emission Limit 2: 15.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: % OPACITY
Emission Limit 2:
Standard Emission: % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) MUKLITSTAGE CYCLONE AND BAGHOUSE

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: DRYER NO 4, PB-50
Process Type: 30.530 (Board Mfg. Dryers)
Primary Fuel:
Throughput:
Process Notes: DIRECT HEAT. INLET TEMP 600-800F

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1700 LB/H
Emission Limit 2: 26.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 5.9000 LB/H
Emission Limit 2: 15.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 10.1700 LB/H
Emission Limit 2: 26.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) CYCLONE AND BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 21.1500 LB/H
Emission Limit 2: 72.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 6.3000 LB/H
Emission Limit 2: 16.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO2)

CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SOx))
Emission Limit 1: 0.0700 LB/H
Emission Limit 2: 0.1500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FORMING LINE, PB-51

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput:

Process Notes: THE WOOD PARTICLES ARE MECHANICALLY SEPARATED TO CREATE A LAYERED MAT.

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 10.0000 % OPACITY 6 MIN AV

Emission Limit 2:

Standard Emission: 10.0000 % OPACITY 6 MIN AV

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A

Other Applicable Requirements: SIP

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.8100 LB/H

Emission Limit 2: 2.3000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) NONE INDICATED

Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.8100 LB/H
Emission Limit 2: 2.3000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PARTICLE BOARD PRESS, PB-53
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput:
Process Notes: LIMITED TO THE USAGE OF UREA-FORMALDEHYDE RESIN AND WAX EMULSION, USE OF ANY OTHER RESINS OR BINDERS IS STRICTLY PROHIBITED WITHOUT WRITTEN APPROVAL.

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6200 LB/H
Emission Limit 2: 1.8000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102

Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 3.9400 LB/H
Emission Limit 2: 17.3000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.6200 LB/H
Emission Limit 2: 1.8000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC

Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.5500 LB/H
Emission Limit 2: 9.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) RTO
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Sulfur Dioxide (SO_2)
CAS Number: 7446-09-5
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Sulfur (SO_x))
Emission Limit 1: 0.0100 LB/H LESS THAN
Emission Limit 2: 0.0100 T/YR LESS THAN
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0

Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 4.8000 LB/H
Emission Limit 2: 21.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: COOLING VENT, PB-55
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 7.4600 LB/H
Emission Limit 2: 21.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 7.4600 LB/H
Emission Limit 2: 21.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 12.4300 LB/H
Emission Limit 2: 35.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD SAWING AND CONVEYOR DUST, PB-56
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified

Pollutant Group(s):
Emission Limit 1: % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.4300 LB/H
Emission Limit 2: 4.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.4300 LB/H
Emission Limit 2: 4.0000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD SANDING LINE NO 1, PB-57A
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) BAGHOUSE
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.5300 LB/H
Emission Limit 2: 1.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2500 LB/H
Emission Limit 2: 0.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:

Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.2500 LB/H
Emission Limit 2: 0.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: BOARD SANDING LINE NO 2, PB-57B
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):

Emission Limit 1: % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.6200 LB/H
Emission Limit 2: 4.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 2.2400 LB/H

Emission Limit 2: 7.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 2.2400 LB/H

Emission Limit 2: 7.1000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) BAGHOUSE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: RAW MATERIAL OVERS HAMMERMILL, PB-59

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput:

Process Notes: VISABLE EMISSIONS NOT ALLOWED FROM THIS PROCESS

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 3.4600 LB/H
Emission Limit 2: 8.7000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 5.2000 LB/H
Emission Limit 2: 13.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 5.2000 LB/H
Emission Limit 2: 13.1000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) BAGHOUSE
Est. % Efficiency:
Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: REJECTS HANDLING, PB-60
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput:
Process Notes:

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 10.0000 % OPACITY 6 MIN AV
Emission Limit 2:
Standard Emission: 10.0000 % OPACITY 6 MIN AV
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: N/A
Other Applicable Requirements: SIP
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.3400 LB/H

Emission Limit 2: 0.8000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) NONE INDICATED

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 0.3400 LB/H

Emission Limit 2: 0.8000 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N) NONE INDICATED

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Facility Information

RBLC ID: LA-0139 (final)

Date Determination

Last Updated: 03/02/2004

Corporate/Company Name: LOUISIANA-PACIFIC CORPORATION

Permit Number: PSD-LA-578

Facility Name:	URANIA PLANT	**Permit Date:**	12/07/2000 (actual)
Facility Contact:	JASON T. SANDERS	**FRS Number:**	110006020279
Facility Description:	MEDIUM-DENSITY FIBERBOARD MILL	**SIC Code:**	2493
Permit Type:	D: Both B (Add new process to existing facility) &C (Modify process at existing facility)	**NAICS Code:**	321219
Permit URL:			
EPA Region:	6	**COUNTRY:**	USA
Facility County:	LASALLE PARISH		
Facility State:	LA		
Facility ZIP Code:	71480		

Permit Issued By: LOUISIANA DEPARTMENT OF ENV QUALITY (Agency Name)
MR. BRYAN D. JOHNSTON(Agency Contact) (225)219-3450 BRYAN.JOHNSTON@LA.GOV

Other Agency Contact Info: KEITH JORDAN
LA
(504) 765-0217

Permit Notes: FACILITY CONSTRUCTED IN 1988 AND PERMITED IN 1990. CURRENT PERMIT IS FOR RETROACTIVE REVIEW DUE TO HIGHER THAN EXPECTED VOC EMISSIONS AT THE FACILITY. PSD PERMIT SHOULD HAVE BEEN REQUIRED FOR PLANT TO OPERATE. MODIFICATION IS FOR THE ADDITION OF REGENERATIVE THERMAL OXIDIZERS TO ADDRESS THE TERMS OF A CONSENT DECREE.

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	161.8500 (Tons/Year)
Nitrogen Oxides (NOx)	308.0600 (Tons/Year)
Particulate Matter (PM)	222.0300 (Tons/Year)
Sulfur Oxides (SOx)	5.6800 (Tons/Year)
Volatile Organic Compounds (VOC)	74.6600 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: RAW MATERIAL CLASSIFIER AND SEPARATOR

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 50000.00 LB/H

Process Notes: EMISSION POINT 25

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.1700 LB/H
Emission Limit 2: 9.5000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0620 LB/H
Emission Limit 2: 2.7200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FLASH TUBE DRYER NO.1 AND NO.2

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: SOUTHERN PINE

Throughput: 15000.00 LB/H EACH

Process Notes: EMISSION POINTS 26 THRU 29. DRYERS ARE FUELED BY SOUTHERN PINE AND NATURAL GAS. NO INDICATION IS PROVIDED AS TO WHICH IS THE PRIMARY FUEL. EMISSIONS FROM THE DRYERS ARE ROUTED TO REGENERATIVE THERMAL OXIDIZERS RTO1 AND RTO2. THE THROUGHPUT OF EACH RTO IS 48 MMBTU/H. EMISSIONS IN THE PERMIT WERE LISTED UNDER THE RTOS, BUT HAVE BEEN REORGANIZED FOR PURPOSES OF THIS DATABASE TO REFLECT THAT THE DRYERS ARE THE PROCESS AND THE RTOS ARE AN ADD-ON CONTROL DEVICE FOR VOC AND PM.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 14.5000 LB/H EACH

Emission Limit 2: 63.5200 T/YR EACH

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZERS

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 32.3300 LB/H EACH

Emission Limit 2: 141.6000 T/YR EACH

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) PROPER COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes: ADDITIONAL EMISSION LIMIT: 0.67 LB/MMBTU.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 9.8400 LB/H EACH

Emission Limit 2: 43.1000 T/YR EACH

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) GOOD COMBUSTION PRACTICES

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 5.2700 LB/H EACH

Emission Limit 2: 22.9600 T/YR EACH

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZER.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FIBER TRANSFER

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 50000.00 LB/H

Process Notes: EMISSION POINT 30

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.5400 LB/H

Emission Limit 2: 6.7600 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) FABRIC FILTERS (BAGHOUSE)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.7300 LB/H
Emission Limit 2: 3.1100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: METERING SYSTEM
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 1500.00 ACFM
Process Notes: EMISSION POINT 31

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1300 LB/H
Emission Limit 2: 0.5600 T/YR
Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) FABRIC FILTERS (BAGHOUSE)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 0.1700 LB/H

Emission Limit 2: 0.7700 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: HIGH PRESSURE SANDER DUST

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 470.00 ACFM

Process Notes: EMISSION POINT 33

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2000 LB/H
Emission Limit 2: 0.8600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: LOW PRESSURE SANDER DUST

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 58000.00 ACFM

Process Notes: EMISSION POINT 34

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 4.9700 LB/H
Emission Limit 2: 21.7700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 1.3500 LB/H
Emission Limit 2: 5.9300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: LOW PRESSURE SAW TRIM
Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:
Throughput: 16200.00 ACFM
Process Notes: EMISSION POINT 35

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.3900 LB/H
Emission Limit 2: 6.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.2000 LB/H
Emission Limit 2: 0.8700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: HIGH PRESSURE SAW TRIM

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 470.00 ACFM

Process Notes: EMISSION POINT 36

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0400 LB/H
Emission Limit 2: 0.1800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MATERIAL REJECT
Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))
Primary Fuel:
Throughput: 13000.00 ACFM
Process Notes: EMISSION POINT 37

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.1100 LB/H
Emission Limit 2: 4.8800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTERS (BAGHOUSE)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.5000 LB/H
Emission Limit 2: 2.0900 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: CHIPS & SHAVINGS LOADING/UNLOADING

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 800.00 T/D

Process Notes: EMISSION POINT M38A

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.0800 LB/H

Emission Limit 2: 4.7300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) ENCLOSED STORAGE BUILDING IS CONSIDERED BACT

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: CHIPS & SHAVINGS STOCKPILE

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 21.00 T/H

Process Notes: EMISSION POINT M38B

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.4200 LB/H
Emission Limit 2: 1.8600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) ENCLOSED STORAGE BUILDING
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MDF FORMING LINE ASPIRATION
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 22820.00 ACFM
Process Notes: EMISSION POINT M40

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 1.9600 LB/H
Emission Limit 2: 8.5700 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) FABRIC FILTER BAGHOUSE

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 0.7300 LB/H
Emission Limit 2: 3.1100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N)
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PLANT ROADWAY FUGITIVES
Process Type: 99.190 (Other Fugitive Dust Sources)
Primary Fuel:
Throughput:
Process Notes: EMISSION POINT R-1

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.0200 LB/H
Emission Limit 2: 0.0800 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MDF PRESS VENTS

Process Type: 30.520 (Board Presses.)

Primary Fuel:

Throughput: 32.00 MMBTU/H

Process Notes: EMISSIONS FROM THE PRESS VENT ARE ROUTED TO REGENERATIVE THERMAL OXIDIZER RTO3 WITH AN OPERATING CAPACITY OF 32 MMBTU/H. EMISSIONS IN THE PERMIT WERE LISTED UNDER THE THERMAL OXIDIZER BUT WERE REORGANIZED FOR PURPOSES OF THIS DATABASE TO REFLECT THAT THE PRESS VENT IS THE PROCESS AND THE RTO IS THE CONTROL DEVICE FOR PM AND VOC.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 6.7900 LB/H
Emission Limit 2: 29.7300 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO)
Est. % Efficiency: 95.000
Cost Effectiveness: 50529 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 5.6700 LB/H
Emission Limit 2: 24.8600 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 2.1700 LB/H
Emission Limit 2: 9.2200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO)
Est. % Efficiency: 95.000
Cost Effectiveness: 74926 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 17.2700 LB/H
Emission Limit 2: 75.6500 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (N) NONE INDICATED
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Facility Information

RBLC ID:	MN-0042 (final)	**Date Determination**	
		Last Updated:	12/13/2002
Corporate/Company Name:	POTLATCH CORPORATION	**Permit Number:**	06100010-006
Facility Name:	POTLATCH CORPORATION	**Permit Date:**	12/04/2000 (actual)
Facility Contact:	MIKE TURITE 218-327-3617 MICHAEL.TURITE@POTLATCHCORP.COM	**FRS Number:**	110000594624
Facility Description:	ORIENTED STRAND BOARD MANUFACTURING FACILITY	**SIC Code:**	2493

Permit Type:	D: Both B (Add new process to existing facility) &C (Modify process at existing facility)	**NAICS Code:**	321219
Permit URL:			
EPA Region:	5	**COUNTRY:**	USA
Facility County:	ITASCA		
Facility State:	MN		
Facility ZIP Code:	55744		
Permit Issued By:	MINNESOTA POLL CTRL AGCY, AIR QUAL DIV (Agency Name) MR. RICHARD CORDES(Agency Contact) (651)757-2291 RICHARD.CORDES@STATE.MN.US		
Other Agency Contact Info:	TRENT WICKMAN 525 SOUTH LAKE AVE SUITE 400 DULUTH, MN 55802 218-723-4760		
Permit Notes:	PM 10 PLANTWIDE EMISSIONS ARE 196 T/YR		

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
CLASS1	MN	Boundary Waters Canoe Area	100km - 50km
CLASS1	MN	Voyageurs NP	100km - 50km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	96.0000 (Tons/Year)
Nitrogen Oxides (NOx)	147.0000 (Tons/Year)
Particulate Matter (PM)	196.0000 (Tons/Year)
Volatile Organic Compounds (VOC)	268.0000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME:	WOOD WAFER DRYER, TRIPLE PASS ROTARY DRUM
Process Type:	30.530 (Board Mfg. Dryers)
Primary Fuel:	WOOD
Throughput:	33000.00 LB/H
Process Notes:	THROUGHPUT IS POUNDS OF WOOD

POLLUTANT NAME:	Particulate matter, filterable < 10 µ (FPM10)
CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	6.0000 LB/H

Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) WET ESP (ELECTROSTATIC PRECIPITATOR)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Yes
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Carbon Monoxide
CAS Number:	630-08-0
Test Method:	Unspecified
Pollutant Group(s):	(InOrganic Compounds)
Emission Limit 1:	5.8800 LB/H
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) RTO (REGENERATIVE THERMAL OXIDIZER)
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Yes
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Volatile Organic Compounds (VOC)
CAS Number:	VOC
Test Method:	Unspecified
Pollutant Group(s):	(Volatile Organic Compounds (VOC))
Emission Limit 1:	8.0000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) RTO (REGENERATIVE THERMAL OXIDIZER)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Yes

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 8.2500 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (N)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Yes

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 6.0000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) WET ESP (ELECTROSTATIC PRECIPITATOR)
Est. % Efficiency:	95.000
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Yes
Pollutant/Compliance Notes:	

Facility Information

RBLC ID:	FL-0211 (final)	**Date Determination Last Updated:**	10/15/2001
Corporate/Company Name:	GEORGIA PACIFIC CORPORATION	**Permit Number:**	PSD-FL-282 AND 770010-001-AC
Facility Name:	GEORGIA PACIFIC - HOSFORD OSB PLANT	**Permit Date:**	10/13/2000 (actual)
Facility Contact:	PAUL VASQUEZ 404-652-7327	**FRS Number:**	110007032647
Facility Description:	NEW ORIENTED STRANDBOARD MANUFACTURING FACILITY WITH A CAPACITY OF 475 MILLION SQUARE FEET PER YEAR, ON A 3/8 INCH BASIS.	**SIC Code:**	2493
Permit Type:	A: New/Greenfield Facility	**NAICS Code:**	
Permit URL:			
EPA Region:	4	**COUNTRY:**	USA
Facility County:	LIBERTY		
Facility State:	FL		
Facility ZIP Code:	32334		
Permit Issued By:	FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (Agency Name) MR. JEFF KOERNER(Agency Contact) (850)921-9000 Jeff.Koerner@dep.state.fl.us		
Other Agency Contact Info:	JOSEPH KAHN FL 850 488-1344		

Permit Notes: DRYERS & PRESS CONTROLLED WITH REGENERATIVE THERMAL OXIDIZER, THERMAL OIL SYSTEM EXHAUST DIRECTED TO DRYERS, MATERIAL HANDLING SOURCES HAVE BAGHOUSES OR DRY FILTERS. POTENTIAL EMISSIONS OF PM/PM10: 293/222 T/YR. FACILITY UNDER CONSTRUCTION, START UP AND COMPLIANCE DATES ARE UNAVAILABLE.

Affected Boundaries:

Boundary Type:	Class 1 Area State:	Boundary:	Distance:
CLASS1	FL	Bradwell Bay	< 100 km
CLASS1	FL	Saint Marks	< 100 km

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	203.0000 (Tons/Year)
Nitrogen Oxides (NOx)	336.0000 (Tons/Year)
Particulate Matter (PM)	293.0000 (Tons/Year)
Volatile Organic Compounds (VOC)	323.0000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: FLAKE DRYERS, 5

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD

Throughput: 550216.00 T

Process Notes: DIRECT FIRED DRYERS WITH WOOD AND NATURAL GAS. INFO IS FOR FIVE DRYERS WITH 2 RTO'S, INCLUDES EXHAUST FROM THERMAL OIL SYSTEM.

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) MULTICLONES & RTOS

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 33.8000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) MULTICYCLONES ON EACH DRYER, TWO REGENERATIVE THERMAL OXIDIZERS FOR FIVE DRYERS.

Est. % Efficiency: 95.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 60.0000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (P) LOW NOX BURNERS

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 33.6000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDIZERS
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)
CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 63.1000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDIZERS
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PANEL PRESS W/ ONE RTO OR TCO
Process Type: 30.520 (Board Presses.)
Primary Fuel:
Throughput: 475000.00 SQF
Process Notes: UNITS: 475000 THOUSAND SQF, 3/8- INCH BASIS/YEAR. PROCESS: INDIRECTLY HEATED BY THERMAL OIL SYSTEM.

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.8000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO) OR THERMAL CATALYTIC OXIDIZER (TCO).
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY
Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO)OR THERMAL CATALYTIC OXIDIZER (TCO).

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 7.3000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO) OR THERMAL CATALYTIC OXIDIZER (TCO).

Est. % Efficiency: 75.000

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))

Emission Limit 1: 10.7000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) LOW NOX BURNER IN CONTROL DEVICE

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC

Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))

Emission Limit 1: 10.0000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) REGENERATIVE THERMAL OXIDIZER (RTO) OR THERMAL CATALYTIC OXIDIZER (TCO)

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MATERIAL TRANSFER, SCREEN FINES & SAW TRIM

Process Type: 30.510 (Board Mfg, Material Handling. (e.g. unloading, storage & distribution))

Primary Fuel:

Throughput: 13.10 T/H

Process Notes: UNITS: 13.1 TONS PROCESSED/HR. PROCESS: SAW TRIM & FINES PROCESSED.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 2.1000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.

Est. % Efficiency: 99.990

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME:	SAW TRIM/FINISHING
Process Type:	30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))
Primary Fuel:	
Throughput:	2.50 T/H
Process Notes:	UNITS: 2.5 TONS PROCESSED/HR.

POLLUTANT NAME:	Visible Emissions (VE)
CAS Number:	VE
Test Method:	Unspecified
Pollutant Group(s):	
Emission Limit 1:	5.0000 % OPACITY
Emission Limit 2:	
Standard Emission:	5.0000 %OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

POLLUTANT NAME:	Particulate Matter (PM)
CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	1.3000 LB/H
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: MATERIAL REJECT/ FLYING SAW

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 0.59 T/H

Process Notes: UNITS: INTEGRATED CYCLONE AND BAG FILTER

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.0000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY
Emission Limit 2:
Standard Emission: 5.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: SPECIALTY SAW/SANDER

Process Type: 30.540 (Board Product Finishing. (e.g. sanders, saws and trimmers))

Primary Fuel:

Throughput: 2.10 T/H

Process Notes: UNITS: 2.1 TONS PROCESSED /HR. INTEGRATED CYCLONE AND BAG FILTER

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.2000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY
Emission Limit 2:
Standard Emission: 5.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: FUEL SYSTEM PNEUMATICS
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 2.10 T/H
Process Notes: UNITS: 2.1 TONS PROCESSED/HR.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number:	PM
Test Method:	Unspecified
Pollutant Group(s):	(Particulate Matter (PM))
Emission Limit 1:	0.3000 LB/H
Emission Limit 2:	
Standard Emission:	

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) INTEGRATED CYCLONE AND BAG FILTER.
Est. % Efficiency:	99.990
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

POLLUTANT NAME: Visible Emissions (VE)

CAS Number:	VE
Test Method:	Unspecified
Pollutant Group(s):	
Emission Limit 1:	5.0000 % OPACITY
Emission Limit 2:	
Standard Emission:	5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	
Control Method:	(A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Compliance Verified:	Unknown
Pollutant/Compliance Notes:	

Process/Pollutant Information

PROCESS NAME: FORMING BINS

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 0.44 T/H

Process Notes: UNITS: 0.44 TONS PROCESSED/HR.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM

Test Method: Unspecified

Pollutant Group(s): (Particulate Matter (PM))

Emission Limit 1: 1.9000 LB/H

Emission Limit 2:

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: HAMMER MILL
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel:
Throughput: 13.10 T/H
Process Notes: UNITS: 13.1 TONS PROCESSED/HOUR. INTEGRATED CYCLONE AND BAG FILTER.

POLLUTANT NAME: Particulate Matter (PM)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.1000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: Other Case-by-Case
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER.
Est. % Efficiency: 99.990
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY
Emission Limit 2:
Standard Emission: 5.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) INTEGRATED CYCLONE AND BAG FILTER
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: EDGE SEALING/STENCILING BOOTH

Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)

Primary Fuel:

Throughput: 102125.00 GAL/YR

Process Notes: CONTROL: DRY FILTER SYSTEM. NO VOC EMISSION LIMITS IN PERMIT.

POLLUTANT NAME: Particulate Matter (PM)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 0.1000 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:

Control Method: (A) DRY FILTER SYSTEM
Est. % Efficiency: 98.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Visible Emissions (VE)
CAS Number: VE
Test Method: Unspecified
Pollutant Group(s):
Emission Limit 1: 5.0000 % OPACITY
Emission Limit 2:
Standard Emission: 5.0000 % OPACITY
Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) DRY FILTER SYSTEM
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: THERMAL OIL SYSTEM ESP BYPASS STACK
Process Type: 30.590 (Miscellaneous Particle & Strand Board Operations)
Primary Fuel: WOOD
Throughput: 8.90 T/H

Process Notes: THE THERMAL OIL HEATERS TRANSFER HEAT TO THE PANEL PRESS. WOOD FIRED W/NATURAL GAS BACK UP. BOTH THROUGH ESP AND THEN TO DRYER SYSTEM. ONLY NATURAL GAS SHALL BE FIRED WHENEVER ESP IS VENTED TO ATMOSPHERE THROUGH BYPASS STACK. POLLUTANTS AND LIMITS OF DRYER SYSTEM INCLUDE THERMAL OIL SYSTEM. THE ONLY EMISSION LIMIT SPECIFIC TO THIS PROCESS IS FOR VE WHEN USING NATURAL GAS.

POLLUTANT NAME: Visible Emissions (VE)

CAS Number: VE

Test Method: Unspecified

Pollutant Group(s):

Emission Limit 1: 5.0000 % OPACITY

Emission Limit 2:

Standard Emission: 5.0000 % OPACITY

Did factors, other then air pollution technology considerations influence the BACT decisions: Unknown

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (A) ESP

Est. % Efficiency:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Compliance Verified: Unknown

Pollutant/Compliance Notes:

Facility Information

RBLC ID: AR-0023 (final)

Date Determination Last Updated: 06/05/2007

Corporate/Company Name: GEORGIA-PACIFIC ORIENTED STRANDBOARD FACILITY

Permit Number: 1803-AOP-R0

Facility Name: GEORGIA-PACIFIC ORIENTED STRANDBOARD FACILITY

Permit Date: 06/29/2000 (actual)

Facility Contact: PAUL VASQUEZ 4946527327

FRS Number: 110012704029

Facility Description: ORIENTED STRANDBOARD FACILITY

SIC Code: 2493

Permit Type: A: New/Greenfield Facility

NAICS Code: 321219

Permit URL:

EPA Region: 6

COUNTRY: USA

Facility County: CALHOUN

Facility State: AR

Facility ZIP Code: 71742

Permit Issued By: ARKANSAS DEPT OF ENVIRONMENTAL QUALITY (Agency Name)
MR. TOM RHEAUME(Agency Contact) (501) 682-0762 rheaume@adeq.state.ar.us

Other Agency Contact Info: CECIL HARRELL
AR
(501) 562-7444

Permit Notes: FACILITY IS UNDER CONSTRUCTION. ADDITIONAL PLANTWIDE EMISSIONS INFORMATION - - - PM10 - 443.0 T/YR , FORMALDEHYDE - 9.85 T/YR. PLANT IS IN THE PROCESS OF BEING BUILT

Facility-wide Emissions:

Pollutant Name:	Facility-wide Emissions Increase:
Carbon Monoxide	179.0000 (Tons/Year)
Nitrogen Oxides (NOx)	368.1000 (Tons/Year)
Particulate Matter (PM)	603.4000 (Tons/Year)
Sulfur Oxides (SOx)	20.5000 (Tons/Year)
Volatile Organic Compounds (VOC)	641.8000 (Tons/Year)

Process/Pollutant Information

PROCESS NAME: DRYER, 5, EACH

Process Type: 30.530 (Board Mfg. Dryers)

Primary Fuel: WOOD WASTES,20%FINES

Throughput: 475.00 MMSF/YR

Process Notes: THIS IS AN OSB DRYER. AT THIS FACILITY, THERE ARE 5 DRYERS. ALL OF THE INFORMATION BELOW IS FOR EACH DRYER.

POLLUTANT NAME: Carbon Monoxide

CAS Number: 630-08-0

Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)

Emission Limit 1: 6.7200 LB/H

Emission Limit 2: 29.4300 T/YR

Standard Emission:

Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements:

Control Method: (B) RTO WITH MULTICLONES, GOOD COMBUSTION

Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)

CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 14.8900 LB/H
Emission Limit 2: 65.2200 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) RTO WITH MULTICLONES, GOOD COMBUSTION
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)

CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 14.6600 LB/H
Emission Limit 2: 64.2100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS, FUEL ENHANCEMENT

Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified
Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 25.2500 LB/H
Emission Limit 2: 110.6000 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U

Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (B) RTO WITH MULTICLONES, GOOD COMBUSTION
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

Process/Pollutant Information

PROCESS NAME: PRESS, ORIENTED STRAND BOARD

Process Type: 30.520 (Board Presses.)

Primary Fuel: WOOD WASTE 20% FINES

Throughput: 475.00 MMSF/YR

Process Notes: THIS IS THE OSB PRESS. THERMEC BURNERS

POLLUTANT NAME: Volatile Organic Compounds (VOC)

CAS Number: VOC
Test Method: Unspecified

Pollutant Group(s): (Volatile Organic Compounds (VOC))
Emission Limit 1: 20.0500 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGERATIVE THERMAL OXIDIZER
Est. % Efficiency: 90.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Particulate matter, filterable < 10 µ (FPM10)
CAS Number: PM
Test Method: Unspecified
Pollutant Group(s): (Particulate Matter (PM))
Emission Limit 1: 2.8300 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENRATIVE THERMAL OXIDIZER
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Carbon Monoxide
CAS Number: 630-08-0
Test Method: Unspecified

Pollutant Group(s): (InOrganic Compounds)
Emission Limit 1: 7.2500 LB/H
Emission Limit 2:
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (A) REGENRATIVE THERMAL OXIDIZER
Est. % Efficiency: 75.000
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

POLLUTANT NAME: Nitrogen Oxides (NOx)
CAS Number: 10102
Test Method: Unspecified
Pollutant Group(s): (InOrganic Compounds , Oxides of Nitrogen (NOx) , Particulate Matter (PM))
Emission Limit 1: 10.7300 LB/H
Emission Limit 2: 64.2100 T/YR
Standard Emission:
Did factors, other then air pollution technology considerations influence the BACT decisions: U
Case-by-Case Basis: BACT-PSD
Other Applicable Requirements:
Control Method: (P) LOW NOX BURNERS, FUEL ENHANCEMENT
Est. % Efficiency:
Cost Effectiveness: 0 $/ton
Incremental Cost Effectiveness: 0 $/ton
Compliance Verified: Unknown
Pollutant/Compliance Notes:

APPENDIX D

MODELING RESULTS

TABLE D-1
SUMMARY OF CRITERIA MODELING RESULTS

Thermogen I, LLC
Millinocket, Maine

Pollutant	Averaging Time	Metric	Meteorological Period						
			1990 (μg/m³)	**1991 (μg/m³)**	**1992 (μg/m³)**	**1993 (μg/m³)**	**1994/1995 (μg/m³)**	**Maximum (μg/m³)**	**Average (μg/m³)**
Thermogen All Sources									
SO_2	1-hour	High, 1st High	6.64	8.82	7.99	6.62	**12.80**	12.80	
	1-hour	High, 2nd High	6.38	7.26	6.88	4.98	**9.94**	9.94	
	1-hour	4th H, daily max	4.99	4.93	5.86	4.22	**6.73**	6.73	5.35
	3-hour	High, 1st High	3.88	5.00	3.91	4.05	**8.86**	8.86	
	3-hour	High, 2nd High	3.57	4.04	3.80	3.67	**5.49**	5.49	
	24-hour	High, 1st High	2.35	2.58	2.39	**2.59**	2.41	2.59	
	24-hour	High, 2nd High	**2.18**	1.83	2.11	1.97	2.12	2.18	
	annual	Max.	0.22	0.20	0.24	**0.24**	0.22	0.24	
PM10	24-hour	High, 6th High	5.25	**5.94**	5.37	5.74	5.36	5.94	
	24-hour	High, 2nd High	6.15	**7.81**	6.90	6.95	6.52	7.81	
	24-hour	High, 1st High	6.94	**8.58**	7.61	6.96	7.12	8.58	
	Annual	Max.	1.49	**1.76**	1.66	1.58	1.64	1.76	1.62
PM2.5	24-hour	High, 2nd High	5.15	**6.17**	5.51	5.76	5.51	6.17	
	24-hour	High, 1st High	5.84	**7.08**	6.09	5.84	5.76	7.08	6.12
	Annual	Max.	1.22	**1.44**	1.37	1.30	1.35	1.44	1.34
NO_2	1-hour	High, 1st High	38.28	50.82	46.02	38.14	**73.72**	73.72	
	1-hour	8th H, daily max	25.93	26.13	25.07	24.25	**28.23**	28.23	25.92
	4-hour	High, 2nd High	23.51	24.27	23.34	23.22	**25.05**	25.05	
	8-hour	High, 2nd High	19.13	20.61	**21.40**	20.07	20.75	21.40	
	Annual	Max.	2.03	2.19	**2.33**	2.22	2.16	2.33	
CO	1- Hour	High, 1st High	29.99	39.81	36.05	29.88	**57.74**	57.74	
	8-Hour	High, 1st High	17.31	20.97	**21.27**	19.19	20.98	21.27	
	1- Hour	High, 2nd High	28.77	32.78	31.02	25.03	**44.84**	44.84	
	8-Hour	High, 2nd High	17.11	18.85	**18.87**	17.98	18.32	18.87	
Interactive Modeling									
SO_2	1-hour	High, 1st High	6.64	8.82	7.99	6.62	**12.80**	12.80	
	1-hour	High, 2nd High	6.38	7.26	6.88	4.98	**9.94**	9.94	
	1-hour	4th H, daily max	4.99	4.93	5.86	4.22	**6.73**	6.73	5.35
	3-hour	High, 2nd High	3.57	4.04	3.80	3.67	**5.49**	5.49	
	24-hour	High, 2nd High	**2.18**	1.83	2.11	1.97	2.12	2.18	
	annual	Max.	0.22	0.20	0.24	**0.24**	0.22	0.24	
PM10	24-hour	High, 6th High	5.25	**5.94**	5.37	5.74	5.36	5.94	
	24-hour	High, 2nd High	6.15	**7.81**	6.90	6.95	6.52	7.81	
	24-hour	High, 1st High	6.94	**8.58**	7.61	6.96	7.12	8.58	
	Annual	Max.	1.49	**1.76**	1.66	1.58	1.64	1.76	1.62
PM2.5	24-hour	High, 2nd High	5.15	**6.17**	5.51	5.76	5.51	6.17	
	24-hour	High, 1st High	5.84	**7.08**	6.09	5.84	5.76	7.08	6.12
	Annual	Max.	1.22	**1.44**	1.37	1.30	1.35	1.44	1.34
NO_2	1-hour	High, 1st High	361.20	331.73	243.13	236.77	**389.30**	389.30	
	1-hour	8th H, daily max	89.72	130.97	105.31	121.64	**137.00**	137.00	116.93
	4-hour	High, 2nd High	66.83	76.41	73.21	84.58	**95.73**	95.73	
	8-hour	High, 2nd High	45.94	49.18	42.44	52.14	**52.57**	52.57	
	Annual	Max.	2.18	2.31	**2.79**	2.36	2.33	2.79	
CO	1- Hour	High, 1st High	29.99	39.81	36.05	29.88	**57.74**	57.74	
	8-Hour	High, 1st High	17.31	20.97	**21.27**	19.19	20.98	21.27	
	1- Hour	High, 2nd High	28.77	32.78	31.02	25.03	**44.84**	44.84	
	8-Hour	High, 2nd High	17.11	18.85	**18.87**	17.98	18.32	18.87	
Oxidizer									
PM10	24-hour	High, 2nd High	**2.07**	1.71	1.98	1.82	1.97	2.07	
	24-hour	High, 1st High	2.22	2.41	2.23	**2.41**	2.24	2.41	
	Annual	Max	0.20	0.18	0.21	**0.21**	0.19	0.21	
Boiler									
PM10	24-hour	High 2nd, High	1.55	**1.97**	1.66	1.73	1.70	1.97	
	24-hour	High 1st High	1.68	**2.05**	1.80	1.74	1.72	2.05	
	Annual	Max	0.28	**0.34**	0.32	0.30	0.32	0.34	

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
1	AerMod 1335(	n 051614_1990	CO	1-HR	BOILER	1ST	24.31439	523320	5054700	105.5	105.5	0	90072202	millnkt_90.SFC	2	4	10538
2	AerMod 1335(	n 051614_1990	CO	1-HR	BOILER	2ND	22.08198	523323.5	5054608.5	107.62	107.62	0	90070122	millnkt_90.SFC	2	4	10538
3	AerMod 1335(	n 051614_1990	CO	1-HR	THRM150A	1ST	29.98511	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
4	AerMod 1335(	n 051614_1990	CO	1-HR	THRM150A	2ND	28.77096	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
5	AerMod 1335(	n 051614_1990	CO	1-HR	OX150A	1ST	29.98113	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
6	AerMod 1335(	n 051614_1990	CO	1-HR	OX150A	2ND	28.76768	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
7	AerMod 1335(	n 051614_1990	CO	1-HR	INTER	1ST	29.98511	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
8	AerMod 1335(	n 051614_1990	CO	1-HR	INTER	2ND	28.77096	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
9	AerMod 1335(	n 051614_1990	CO	8-HR	BOILER	1ST	12.97776	523320	5054640	105.88	105.88	0	90120908	millnkt_90.SFC	2	4	10538
10	AerMod 1335(	n 051614_1990	CO	8-HR	BOILER	2ND	10.17004	523070.8	5054572.4	123.93	130.11	0	90102316	millnkt_90.SFC	2	4	10538
11	AerMod 1335(	n 051614_1990	CO	8-HR	THRM150A	1ST	17.30992	523340	5054680	105.6	105.6	0	90011824	millnkt_90.SFC	2	4	10538
12	AerMod 1335(	n 051614_1990	CO	8-HR	THRM150A	2ND	17.10948	523340	5054680	105.6	105.6	0	90031824	millnkt_90.SFC	2	4	10538
13	AerMod 1335(	n 051614_1990	CO	8-HR	OX150A	1ST	13.05357	523350.5	5054583.5	107.83	107.83	0	90053116	millnkt_90.SFC	2	4	10538
14	AerMod 1335(	n 051614_1990	CO	8-HR	OX150A	2ND	12.4927	523350.5	5054583.5	107.83	107.83	0	90122424	millnkt_90.SFC	2	4	10538
15	AerMod 1335(	n 051614_1990	CO	8-HR	INTER	1ST	17.30992	523340	5054680	105.6	105.6	0	90011824	millnkt_90.SFC	2	4	10538
16	AerMod 1335(	n 051614_1990	CO	8-HR	INTER	2ND	17.10948	523340	5054680	105.6	105.6	0	90031824	millnkt_90.SFC	2	4	10538
17	AerMod 1335(	n 051614_1990	NO2	IEST MAX DA	EAST	1ST	361.203	530420	5047716	213.1	219.9	0	1 YEARS	millnkt_90.SFC	5	5	10538
18	AerMod 1335(	n 051614_1990	NO2	IEST MAX DA	BOILER	1ST	17.9817	523320	5054700	105.5	105.5	0	1 YEARS	millnkt_90.SFC	5	5	10538
19	AerMod 1335(	n 051614_1990	NO2	IEST MAX DA	THRM150A	1ST	38.27672	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_90.SFC	5	5	10538
20	AerMod 1335(	n 051614_1990	NO2	IEST MAX DA	OX150A	1ST	38.27378	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_90.SFC	5	5	10538
21	AerMod 1335(	n 051614_1990	NO2	IEST MAX DA	INTER	1ST	361.20456	530420	5047716	213.1	219.9	0	1 YEARS	millnkt_90.SFC	5	5	10538
22	AerMod 1335(	n 051614_1990	NO2	HEST MAX DA	EAST	1ST	89.65272	530620.14	5047516.03	228.13	228.13	0	1 YEARS	millnkt_90.SFC	5	5	10538
23	AerMod 1335(	n 051614_1990	NO2	HEST MAX DA	BOILER	1ST	12.55593	523340	5054700	106.19	106.19	0	1 YEARS	millnkt_90.SFC	5	5	10538
24	AerMod 1335(	n 051614_1990	NO2	HEST MAX DA	THRM150A	1ST	25.92513	523560	5054960	117.12	118.65	0	1 YEARS	millnkt_90.SFC	5	5	10538
25	AerMod 1335(	n 051614_1990	NO2	HEST MAX DA	OX150A	1ST	22.29099	523580	5055080	121.15	121.15	0	1 YEARS	millnkt_90.SFC	5	5	10538
26	AerMod 1335(	n 051614_1990	NO2	HEST MAX DA	INTER	1ST	89.71827	530620.14	5047516.03	228.13	228.13	0	1 YEARS	millnkt_90.SFC	5	5	10538
27	AerMod 1335(	51614_1990_O	OTHNO2	ANNUAL	EAST	1ST	2.13154	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_90.SFC	5	5	10538
28	AerMod 1335(	51614_1990_O	OTHNO2	ANNUAL	BOILER	1ST	1.09801	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_90.SFC	5	5	10538
29	AerMod 1335(	51614_1990_O	OTHNO2	ANNUAL	THRM150A	1ST	2.02582	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_90.SFC	5	5	10538
30	AerMod 1335(	51614_1990_O	OTHNO2	ANNUAL	OX150A	1ST	1.17767	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_90.SFC	5	5	10538
31	AerMod 1335(	51614_1990_O	OTHNO2	ANNUAL	INTER	1ST	2.17827	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_90.SFC	5	5	10538
32	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	EAST	1ST	361.203	530420	5047716	213.1	219.9	0	90050403	millnkt_90.SFC	5	5	10538
33	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	EAST	2ND	191.94857	530620.14	5047516.03	228.13	228.13	0	90040222	millnkt_90.SFC	5	5	10538
34	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	BOILER	1ST	17.9817	523320	5054700	105.5	105.5	0	90072202	millnkt_90.SFC	5	5	10538
35	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	BOILER	2ND	16.33072	523323.5	5054608.5	107.62	107.62	0	90070122	millnkt_90.SFC	5	5	10538
36	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	THRM150A	1ST	38.27672	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	5	5	10538
37	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	THRM150A	2ND	36.72712	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	5	5	10538
38	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	OX150A	1ST	38.27378	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	5	5	10538
39	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	OX150A	2ND	36.7247	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	5	5	10538
40	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	INTER	1ST	361.20456	530420	5047716	213.1	219.9	0	90050403	millnkt_90.SFC	5	5	10538
41	AerMod 1335(	51614_1990_O	OTHNO2	1-HR	INTER	2ND	191.9685	530620.14	5047516.03	228.13	228.13	0	90040222	millnkt_90.SFC	5	5	10538
42	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	EAST	1ST	117.41285	530420	5047716	213.1	219.9	0	90050404	millnkt_90.SFC	5	5	10538
43	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	EAST	2ND	66.80716	530620	5047416	225.3	225.3	0	90050408	millnkt_90.SFC	5	5	10538
44	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	BOILER	1ST	10.87121	523340	5054620	106.15	106.15	0	90120904	millnkt_90.SFC	5	5	10538
45	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	BOILER	2ND	8.81244	523320	5054640	105.88	105.88	0	90120908	millnkt_90.SFC	5	5	10538
46	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	THRM150A	1ST	25.84111	523340	5054680	105.6	105.6	0	90071916	millnkt_90.SFC	5	5	10538
47	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	THRM150A	2ND	23.50638	523020	5054620	125.4	143.34	0	90013008	millnkt_90.SFC	5	5	10538
48	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	OX150A	1ST	21.23482	523340	5054680	105.6	105.6	0	90071916	millnkt_90.SFC	5	5	10538
49	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	OX150A	2ND	19.68419	523020	5054620	125.4	143.34	0	90040412	millnkt_90.SFC	5	5	10538
50	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	INTER	1ST	117.42087	530420	5047716	213.1	219.9	0	90050404	millnkt_90.SFC	5	5	10538
51	AerMod 1335(	51614_1990_O	OTHNO2	4-HR	INTER	2ND	66.82766	530620	5047416	225.3	225.3	0	90050408	millnkt_90.SFC	5	5	10538
52	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	EAST	1ST	67.56366	530420	5047716	213.1	219.9	0	90050408	millnkt_90.SFC	5	5	10538
53	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	EAST	2ND	45.93989	532500	5052500	93.83	99.91	0	90051016	millnkt_90.SFC	5	5	10538
54	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	BOILER	1ST	9.5977	523320	5054640	105.88	105.88	0	90120908	millnkt_90.SFC	5	5	10538
55	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	BOILER	2ND	7.52125	523070.8	5054572.4	123.93	130.11	0	90102316	millnkt_90.SFC	5	5	10538
56	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	THRM150A	1ST	19.21304	523340	5054680	105.6	105.6	0	90011824	millnkt_90.SFC	5	5	10538
57	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	THRM150A	2ND	19.12806	523340	5054680	105.6	105.6	0	90071916	millnkt_90.SFC	5	5	10538
58	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	OX150A	1ST	16.66413	523350.5	5054583.5	107.83	107.83	0	90053116	millnkt_90.SFC	5	5	10538
59	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	OX150A	2ND	15.94813	523350.5	5054583.5	107.83	107.83	0	90122424	millnkt_90.SFC	5	5	10538
60	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	INTER	1ST	67.5787	530420	5047716	213.1	219.9	0	90050408	millnkt_90.SFC	5	5	10538
61	AerMod 1335(	51614_1990_O	OTHNO2	8-HR	INTER	2ND	45.94045	532500	5052500	93.83	99.91	0	90051016	millnkt_90.SFC	5	5	10538
62	AerMod 1335(	51614_1990_O	OTHSO2	ANNUAL	BOILER	1ST	0.02482	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_90.SFC	2	4	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
63	AerMod 1335	51614_1990_O	OTHSO2	ANNUAL	THRM150A	1ST	0.22049	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_90.SFC	2	4	10538
64	AerMod 1335	51614_1990_O	OTHSO2	ANNUAL	OX150A	1ST	0.20446	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_90.SFC	2	4	10538
65	AerMod 1335	51614_1990_O	OTHSO2	ANNUAL	INTER	1ST	0.22049	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_90.SFC	2	4	10538
66	AerMod 1335	51614_1990_O	OTHSO2	1-HR	BOILER	1ST	0.40654	523320	5054700	105.5	105.5	0	90072202	millnkt_90.SFC	2	4	10538
67	AerMod 1335	51614_1990_O	OTHSO2	1-HR	BOILER	2ND	0.36922	523323.5	5054608.5	107.62	107.62	0	90070122	millnkt_90.SFC	2	4	10538
68	AerMod 1335	51614_1990_O	OTHSO2	1-HR	THRM150A	1ST	6.64482	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
69	AerMod 1335	51614_1990_O	OTHSO2	1-HR	THRM150A	2ND	6.37587	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
70	AerMod 1335	51614_1990_O	OTHSO2	1-HR	OX150A	1ST	6.64475	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
71	AerMod 1335	51614_1990_O	OTHSO2	1-HR	OX150A	2ND	6.37582	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
72	AerMod 1335	51614_1990_O	OTHSO2	1-HR	INTER	1ST	6.64482	523300	5053400	177.98	177.98	0	90090322	millnkt_90.SFC	2	4	10538
73	AerMod 1335	51614_1990_O	OTHSO2	1-HR	INTER	2ND	6.37587	523300	5053300	178.99	178.99	0	90090322	millnkt_90.SFC	2	4	10538
74	AerMod 1335	51614_1990_O	OTHSO2	3-HR	BOILER	1ST	0.29611	523337	5054596	107.81	107.81	0	90120906	millnkt_90.SFC	2	4	10538
75	AerMod 1335	51614_1990_O	OTHSO2	3-HR	BOILER	2ND	0.24469	523340	5054620	106.15	106.15	0	90120903	millnkt_90.SFC	2	4	10538
76	AerMod 1335	51614_1990_O	OTHSO2	3-HR	THRM150A	1ST	3.88314	523340	5054680	105.6	105.6	0	90071915	millnkt_90.SFC	2	4	10538
77	AerMod 1335	51614_1990_O	OTHSO2	3-HR	THRM150A	2ND	3.56746	523340	5054680	105.6	105.6	0	90071918	millnkt_90.SFC	2	4	10538
78	AerMod 1335	51614_1990_O	OTHSO2	3-HR	OX150A	1ST	3.77898	523340	5054680	105.6	105.6	0	90071915	millnkt_90.SFC	2	4	10538
79	AerMod 1335	51614_1990_O	OTHSO2	3-HR	OX150A	2ND	3.46223	523340	5054680	105.6	105.6	0	90071918	millnkt_90.SFC	2	4	10538
80	AerMod 1335	51614_1990_O	OTHSO2	3-HR	INTER	1ST	3.88314	523340	5054680	105.6	105.6	0	90071915	millnkt_90.SFC	2	4	10538
81	AerMod 1335	51614_1990_O	OTHSO2	3-HR	INTER	2ND	3.56746	523340	5054680	105.6	105.6	0	90071918	millnkt_90.SFC	2	4	10538
82	AerMod 1335	51614_1990_O	OTHSO2	24-HR	BOILER	1ST	0.14616	523082.4	5054557.2	123.75	131.7	0	90102324	millnkt_90.SFC	2	4	10538
83	AerMod 1335	51614_1990_O	OTHSO2	24-HR	BOILER	2ND	0.13532	523094	5054542	123.93	130.82	0	90100824	millnkt_90.SFC	2	4	10538
84	AerMod 1335	51614_1990_O	OTHSO2	24-HR	THRM150A	1ST	2.35205	523360	5054600	106.09	106.09	0	90111324	millnkt_90.SFC	2	4	10538
85	AerMod 1335	51614_1990_O	OTHSO2	24-HR	THRM150A	2ND	2.18113	523350.5	5054583.5	107.83	107.83	0	90111324	millnkt_90.SFC	2	4	10538
86	AerMod 1335	51614_1990_O	OTHSO2	24-HR	OX150A	1ST	2.30825	523360	5054600	106.09	106.09	0	90111324	millnkt_90.SFC	2	4	10538
87	AerMod 1335	51614_1990_O	OTHSO2	24-HR	OX150A	2ND	2.14962	523350.5	5054583.5	107.83	107.83	0	90111324	millnkt_90.SFC	2	4	10538
88	AerMod 1335	51614_1990_O	OTHSO2	24-HR	INTER	1ST	2.35205	523360	5054600	106.09	106.09	0	90111324	millnkt_90.SFC	2	4	10538
89	AerMod 1335	51614_1990_O	OTHSO2	24-HR	INTER	2ND	2.18113	523350.5	5054583.5	107.83	107.83	0	90111324	millnkt_90.SFC	2	4	10538
90	AerMod 1335(	051614_1990_	PM10	ANNUAL	BOILER	1ST	0.28453	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_90.SFC	7	6	10538
91	AerMod 1335(	051614_1990_	PM10	ANNUAL	PELCOOL	1ST	0.53046	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_90.SFC	7	6	10538
92	AerMod 1335(	051614_1990_	PM10	ANNUAL	OTHERPM	1ST	0.55096	523320	5054680	105.18	105.18	0	1 YEARS	millnkt_90.SFC	7	6	10538
93	AerMod 1335(	051614_1990_	PM10	ANNUAL	THRM150A	1ST	1.48547	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_90.SFC	7	6	10538
94	AerMod 1335(	051614_1990_	PM10	ANNUAL	OX150A	1ST	0.19658	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_90.SFC	7	6	10538
95	AerMod 1335(	051614_1990_	PM10	ANNUAL	INTER	1ST	1.48547	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_90.SFC	7	6	10538
96	AerMod 1335(	051614_1990_	PM10	24-HR	BOILER	1ST	1.67526	523082.4	5054557.2	123.75	131.7	0	90102324	millnkt_90.SFC	7	6	10538
97	AerMod 1335(	051614_1990_	PM10	24-HR	BOILER	2ND	1.55097	523094	5054542	123.93	130.82	0	90100824	millnkt_90.SFC	7	6	10538
98	AerMod 1335(	051614_1990_	PM10	24-HR	BOILER	6TH	1.15997	523070.8	5054572.4	123.93	130.11	0	90040324	millnkt_90.SFC	7	6	10538
99	AerMod 1335(	051614_1990_	PM10	24-HR	PELCOOL	1ST	2.81288	523140.4	5054481.2	122.31	149.71	0	90100824	millnkt_90.SFC	7	6	10538
100	AerMod 1335(	051614_1990_	PM10	24-HR	PELCOOL	2ND	2.50888	523340	5054640	105.17	105.17	0	90070424	millnkt_90.SFC	7	6	10538
101	AerMod 1335(	051614_1990_	PM10	24-HR	PELCOOL	6TH	2.12435	523340	5054620	106.15	106.15	0	90091724	millnkt_90.SFC	7	6	10538
102	AerMod 1335(	051614_1990_	PM10	24-HR	OTHERPM	1ST	3.01575	523320	5054680	105.18	105.18	0	90071324	millnkt_90.SFC	7	6	10538
103	AerMod 1335(	051614_1990_	PM10	24-HR	OTHERPM	2ND	2.89099	523320	5054680	105.18	105.18	0	90041324	millnkt_90.SFC	7	6	10538
104	AerMod 1335(	051614_1990_	PM10	24-HR	OTHERPM	6TH	2.41512	523320	5054680	105.18	105.18	0	90040924	millnkt_90.SFC	7	6	10538
105	AerMod 1335(	051614_1990_	PM10	24-HR	THRM150A	1ST	6.93943	523340	5054660	105.11	105.11	0	90021124	millnkt_90.SFC	7	6	10538
106	AerMod 1335(	051614_1990_	PM10	24-HR	THRM150A	2ND	6.14791	523340	5054660	105.11	105.11	0	90080324	millnkt_90.SFC	7	6	10538
107	AerMod 1335(	051614_1990_	PM10	24-HR	THRM150A	6TH	5.25199	523340	5054640	105.17	105.17	0	90040824	millnkt_90.SFC	7	6	10538
108	AerMod 1335(	051614_1990_	PM10	24-HR	OX150A	1ST	2.21938	523360	5054600	106.09	106.09	0	90111324	millnkt_90.SFC	7	6	10538
109	AerMod 1335(	051614_1990_	PM10	24-HR	OX150A	2ND	2.06686	523350.5	5054583.5	107.83	107.83	0	90111324	millnkt_90.SFC	7	6	10538
110	AerMod 1335(	051614_1990_	PM10	24-HR	OX150A	6TH	1.44327	523350.5	5054583.5	107.83	107.83	0	90111124	millnkt_90.SFC	7	6	10538
111	AerMod 1335(	051614_1990_	PM10	24-HR	INTER	1ST	6.93943	523340	5054660	105.11	105.11	0	90021124	millnkt_90.SFC	7	6	10538
112	AerMod 1335(	051614_1990_	PM10	24-HR	INTER	2ND	6.14791	523340	5054660	105.11	105.11	0	90080324	millnkt_90.SFC	7	6	10538
113	AerMod 1335(	051614_1990_	PM10	24-HR	INTER	6TH	5.25199	523340	5054640	105.17	105.17	0	90040824	millnkt_90.SFC	7	6	10538
114	AerMod 1335(	h 051614_1990	PM2	ANNUAL	BOILER	1ST	0.28453	523330	5054670	105.12	105	0	1 YEARS	millnkt_90.SFC	7	6	10538
115	AerMod 1335(	h 051614_1990	PM2	ANNUAL	PELCOOL	1ST	0.26523	523340	5054620	106.15	106	0	1 YEARS	millnkt_90.SFC	7	6	10538
116	AerMod 1335(	h 051614_1990	PM2	ANNUAL	OTHERPM	1ST	0.55096	523320	5054680	105.18	105	0	1 YEARS	millnkt_90.SFC	7	6	10538
117	AerMod 1335(	h 051614_1990	PM2	ANNUAL	THRM150A	1ST	1.22241	523340	5054640	105.17	105	0	1 YEARS	millnkt_90.SFC	7	6	10538
118	AerMod 1335(	h 051614_1990	PM2	ANNUAL	OX150A	1ST	0.19658	523350.5	5054583.5	107.83	108	0	1 YEARS	millnkt_90.SFC	7	6	10538
119	AerMod 1335(	h 051614_1990	PM2	ANNUAL	INTER	1ST	1.22241	523340	5054640	105.17	105	0	1 YEARS	millnkt_90.SFC	7	6	10538
120	AerMod 1335(	h 051614_1990	PM2	24-HR	BOILER	1ST	1.67526	523082.4	5054557.2	123.75	132	0	90102324	millnkt_90.SFC	7	6	10538
121	AerMod 1335(	h 051614_1990	PM2	24-HR	BOILER	2ND	1.55097	523094	5054542	123.93	130.82	0	90100824	millnkt_90.SFC	7	6	10538
122	AerMod 1335(	h 051614_1990	PM2	24-HR	PELCOOL	1ST	1.40644	523140.4	5054481.2	122.31	149.71	0	90100824	millnkt_90.SFC	7	6	10538
123	AerMod 1335(	h 051614_1990	PM2	24-HR	PELCOOL	2ND	1.25444	523340	5054640	105.17	105.17	0	90070424	millnkt_90.SFC	7	6	10538
124	AerMod 1335(	h 051614_1990	PM2	24-HR	OTHERPM	1ST	3.01575	523320	5054680	105.18	105.18	0	90071324	millnkt_90.SFC	7	6	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
125	AerMod 1335(	n 051614_1990	PM2	24-HR	OTHERPM	2ND	2.89099	523320	5054680	105.18	105.18	0	90041324	millnkt_90.SFC	7	6	10538
126	AerMod 1335(	n 051614_1990	PM2	24-HR	THRM150A	1ST	5.83776	523340	5054660	105.11	105.11	0	90021124	millnkt_90.SFC	7	6	10538
127	AerMod 1335(	n 051614_1990	PM2	24-HR	THRM150A	2ND	5.15068	523340	5054660	105.11	105.11	0	90080324	millnkt_90.SFC	7	6	10538
128	AerMod 1335(	n 051614_1990	PM2	24-HR	OX150A	1ST	2.21938	523360	5054600	106.09	106.09	0	90111324	millnkt_90.SFC	7	6	10538
129	AerMod 1335(	n 051614_1990	PM2	24-HR	OX150A	2ND	2.06686	523350.5	5054583.5	107.83	107.83	0	90111324	millnkt_90.SFC	7	6	10538
130	AerMod 1335(	n 051614_1990	PM2	24-HR	INTER	1ST	5.83776	523340	5054660	105.11	105.11	0	90021124	millnkt_90.SFC	7	6	10538
131	AerMod 1335(	n 051614_1990	PM2	24-HR	INTER	2ND	5.15068	523340	5054660	105.11	105.11	0	90080324	millnkt_90.SFC	7	6	10538
132	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	BOILER	1ST	0.40654	523320	5054700	105.5	105.5	0	1 YEARS	millnkt_90.SFC	2	4	10538
133	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	THRM150A	1ST	6.64482	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_90.SFC	2	4	10538
134	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	OX150A	1ST	6.64475	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_90.SFC	2	4	10538
135	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	INTER	1ST	6.64482	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_90.SFC	2	4	10538
136	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	BOILER	1ST	0.32933	523340	5054720	106.51	106.51	0	1 YEARS	millnkt_90.SFC	2	4	10538
137	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	THRM150A	1ST	4.99336	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_90.SFC	2	4	10538
138	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	OX150A	1ST	4.9933	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_90.SFC	2	4	10538
139	AerMod 1335(	n 051614_1990	SO2	HEST MAX DA	INTER	1ST	4.99336	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_90.SFC	2	4	10538
140	AerMod 1335(	n 051614_1991	CO	1-HR	BOILER	1ST	24.13298	523323.5	5054608.5	107.62	107.62	0	91010607	millnkt_91.SFC	2	4	10538
141	AerMod 1335(	n 051614_1991	CO	1-HR	BOILER	2ND	22.71148	523320	5054660	105.18	105.18	0	91092421	millnkt_91.SFC	2	4	10538
142	AerMod 1335(	n 051614_1991	CO	1-HR	THRM150A	1ST	39.80793	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
143	AerMod 1335(	n 051614_1991	CO	1-HR	THRM150A	2ND	32.77881	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
144	AerMod 1335(	n 051614_1991	CO	1-HR	OX150A	1ST	39.8042	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
145	AerMod 1335(	n 051614_1991	CO	1-HR	OX150A	2ND	32.77551	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
146	AerMod 1335(	n 051614_1991	CO	1-HR	INTER	1ST	39.80793	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
147	AerMod 1335(	n 051614_1991	CO	1-HR	INTER	2ND	32.77881	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
148	AerMod 1335(	n 051614_1991	CO	8-HR	BOILER	1ST	11.77314	523059.2	5054587.6	123.6	130.11	0	91060408	millnkt_91.SFC	2	4	10538
149	AerMod 1335(	n 051614_1991	CO	8-HR	BOILER	2ND	11.27061	523070.8	5054572.4	123.93	130.11	0	91040908	millnkt_91.SFC	2	4	10538
150	AerMod 1335(	n 051614_1991	CO	8-HR	THRM150A	1ST	20.97256	523040	5054600	124.86	129.01	0	91042124	millnkt_91.SFC	2	4	10538
151	AerMod 1335(	n 051614_1991	CO	8-HR	THRM150A	2ND	18.85285	523040	5054600	124.86	129.01	0	91042116	millnkt_91.SFC	2	4	10538
152	AerMod 1335(	n 051614_1991	CO	8-HR	OX150A	1ST	15.35582	523040	5054600	124.86	129.01	0	91042124	millnkt_91.SFC	2	4	10538
153	AerMod 1335(	n 051614_1991	CO	8-HR	OX150A	2ND	13.3411	522940	5054560	134.31	134.31	0	91042116	millnkt_91.SFC	2	4	10538
154	AerMod 1335(	n 051614_1991	CO	8-HR	INTER	1ST	20.97256	523040	5054600	124.86	129.01	0	91042124	millnkt_91.SFC	2	4	10538
155	AerMod 1335(	n 051614_1991	CO	8-HR	INTER	2ND	18.85285	523040	5054600	124.86	129.01	0	91042116	millnkt_91.SFC	2	4	10538
156	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	EAST	1ST	331.72167	530520	5047716	221.2	221.2	0	1 YEARS	millnkt_91.SFC	5	5	10538
157	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	BOILER	1ST	17.84754	523323.5	5054608.5	107.62	107.62	0	1 YEARS	millnkt_91.SFC	5	5	10538
158	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	THRM150A	1ST	50.81663	523000	5053600	181.74	181.74	0	1 YEARS	millnkt_91.SFC	5	5	10538
159	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	OX150A	1ST	50.81387	523000	5053600	181.74	181.74	0	1 YEARS	millnkt_91.SFC	5	5	10538
160	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	INTER	1ST	331.72859	530520	5047716	221.2	221.2	0	1 YEARS	millnkt_91.SFC	5	5	10538
161	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	EAST	1ST	130.95966	530620	5047416	225.3	225.3	0	1 YEARS	millnkt_91.SFC	5	5	10538
162	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	BOILER	1ST	12.50726	523300	5054660	105.72	105.72	0	1 YEARS	millnkt_91.SFC	5	5	10538
163	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	THRM150A	1ST	26.13499	523340	5054680	105.6	105.6	0	1 YEARS	millnkt_91.SFC	5	5	10538
164	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	OX150A	1ST	21.92946	523340	5054600	107.48	107.48	0	1 YEARS	millnkt_91.SFC	5	5	10538
165	AerMod 1335(	n 051614_1991	NO2	HEST MAX DA	INTER	1ST	130.97297	530620	5047416	225.3	225.3	0	1 YEARS	millnkt_91.SFC	5	5	10538
166	AerMod 1335(	51614_1991_O	OTHNO2	ANNUAL	EAST	1ST	2.15353	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_91.SFC	5	5	10538
167	AerMod 1335(	51614_1991_O	OTHNO2	ANNUAL	BOILER	1ST	1.31233	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_91.SFC	5	5	10538
168	AerMod 1335(	51614_1991_O	OTHNO2	ANNUAL	THRM150A	1ST	2.18734	523350	5054650	105.11	105.11	0	1 YEARS	millnkt_91.SFC	5	5	10538
169	AerMod 1335(	51614_1991_O	OTHNO2	ANNUAL	OX150A	1ST	1.09709	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_91.SFC	5	5	10538
170	AerMod 1335(	51614_1991_O	OTHNO2	ANNUAL	INTER	1ST	2.31316	523350	5054650	105.11	105.11	0	1 YEARS	millnkt_91.SFC	5	5	10538
171	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	EAST	1ST	331.72167	530520	5047716	221.2	221.2	0	91082421	millnkt_91.SFC	5	5	10538
172	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	EAST	2ND	283.117	530720	5047316	219.9	219.9	0	91090705	millnkt_91.SFC	5	5	10538
173	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	BOILER	1ST	17.84754	523323.5	5054608.5	107.62	107.62	0	91010607	millnkt_91.SFC	5	5	10538
174	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	BOILER	2ND	16.79627	523320	5054660	105.18	105.18	0	91092421	millnkt_91.SFC	5	5	10538
175	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	THRM150A	1ST	50.81663	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	5	5	10538
176	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	THRM150A	2ND	41.84352	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	5	5	10538
177	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	OX150A	1ST	50.81387	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	5	5	10538
178	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	OX150A	2ND	41.84108	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	5	5	10538
179	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	INTER	1ST	331.72859	530520	5047716	221.2	221.2	0	91082421	millnkt_91.SFC	5	5	10538
180	AerMod 1335(	51614_1991_O	OTHNO2	1-HR	INTER	2ND	283.12084	530720	5047316	219.9	219.9	0	91090705	millnkt_91.SFC	5	5	10538
181	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	EAST	1ST	87.79118	530720	5047316	219.9	219.9	0	91032308	millnkt_91.SFC	5	5	10538
182	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	EAST	2ND	76.40573	530520	5047616	222.9	225.7	0	91082424	millnkt_91.SFC	5	5	10538
183	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	BOILER	1ST	10.02347	523047.6	5054602.8	123.32	134.59	0	91090624	millnkt_91.SFC	5	5	10538
184	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	BOILER	2ND	9.17779	523059.2	5054587.6	123.6	130.11	0	91100504	millnkt_91.SFC	5	5	10538
185	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	THRM150A	1ST	25.9766	523020	5054620	125.4	143.34	0	91103020	millnkt_91.SFC	5	5	10538
186	AerMod 1335(	51614_1991_O	OTHNO2	4-HR	THRM150A	2ND	24.26755	523350	5054650	105.11	105.11	0	91100712	millnkt_91.SFC	5	5	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
187	AerMod 1335	51614_1991_O	OTHNO2	4-HR	OX150A	1ST	23.12679	523020	5054620	125.4	143.34	0	91103020	millnkt_91.SFC	5	5	10538
188	AerMod 1335	51614_1991_O	OTHNO2	4-HR	OX150A	2ND	21.08306	523024.4	5054633.2	122.97	143.34	0	91031416	millnkt_91.SFC	5	5	10538
189	AerMod 1335	51614_1991_O	OTHNO2	4-HR	INTER	1ST	87.81245	530720	5047316	219.9	219.9	0	91032308	millnkt_91.SFC	5	5	10538
190	AerMod 1335	51614_1991_O	OTHNO2	4-HR	INTER	2ND	76.41474	530520	5047616	222.9	225.7	0	91082424	millnkt_91.SFC	5	5	10538
191	AerMod 1335	51614_1991_O	OTHNO2	8-HR	EAST	1ST	79.30314	530520	5047716	221.2	221.2	0	91082424	millnkt_91.SFC	5	5	10538
192	AerMod 1335	51614_1991_O	OTHNO2	8-HR	EAST	2ND	49.16838	530720	5047416	222.6	222.6	0	91010824	millnkt_91.SFC	5	5	10538
193	AerMod 1335	51614_1991_O	OTHNO2	8-HR	BOILER	1ST	8.70682	523059.2	5054587.6	123.6	130.11	0	91060408	millnkt_91.SFC	5	5	10538
194	AerMod 1335	51614_1991_O	OTHNO2	8-HR	BOILER	2ND	8.33518	523070.8	5054572.4	123.93	130.11	0	91040908	millnkt_91.SFC	5	5	10538
195	AerMod 1335	51614_1991_O	OTHNO2	8-HR	THRM150A	1ST	23.75703	523040	5054600	124.86	129.01	0	91042124	millnkt_91.SFC	5	5	10538
196	AerMod 1335	51614_1991_O	OTHNO2	8-HR	THRM150A	2ND	20.60831	523330	5054670	105.12	105.12	0	91091724	millnkt_91.SFC	5	5	10538
197	AerMod 1335	51614_1991_O	OTHNO2	8-HR	OX150A	1ST	19.60317	523040	5054600	124.86	129.01	0	91042124	millnkt_91.SFC	5	5	10538
198	AerMod 1335	51614_1991_O	OTHNO2	8-HR	OX150A	2ND	17.03119	522940	5054560	134.31	134.31	0	91042116	millnkt_91.SFC	5	5	10538
199	AerMod 1335	51614_1991_O	OTHNO2	8-HR	INTER	1ST	79.31184	530520	5047716	221.2	221.2	0	91082424	millnkt_91.SFC	5	5	10538
200	AerMod 1335	51614_1991_O	OTHNO2	8-HR	INTER	2ND	49.18087	530720	5047416	222.6	222.6	0	91010824	millnkt_91.SFC	5	5	10538
201	AerMod 1335	51614_1991_O	OTHSO2	ANNUAL	BOILER	1ST	0.02967	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_91.SFC	2	4	10538
202	AerMod 1335	51614_1991_O	OTHSO2	ANNUAL	THRM150A	1ST	0.20455	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_91.SFC	2	4	10538
203	AerMod 1335	51614_1991_O	OTHSO2	ANNUAL	OX150A	1ST	0.19047	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_91.SFC	2	4	10538
204	AerMod 1335	51614_1991_O	OTHSO2	ANNUAL	INTER	1ST	0.20455	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_91.SFC	2	4	10538
205	AerMod 1335	51614_1991_O	OTHSO2	1-HR	BOILER	1ST	0.40351	523323.5	5054608.5	107.62	107.62	0	91010607	millnkt_91.SFC	2	4	10538
206	AerMod 1335	51614_1991_O	OTHSO2	1-HR	BOILER	2ND	0.37974	523320	5054660	105.18	105.18	0	91092421	millnkt_91.SFC	2	4	10538
207	AerMod 1335	51614_1991_O	OTHSO2	1-HR	THRM150A	1ST	8.82191	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
208	AerMod 1335	51614_1991_O	OTHSO2	1-HR	THRM150A	2ND	7.26413	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
209	AerMod 1335	51614_1991_O	OTHSO2	1-HR	OX150A	1ST	8.82185	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
210	AerMod 1335	51614_1991_O	OTHSO2	1-HR	OX150A	2ND	7.26408	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
211	AerMod 1335	51614_1991_O	OTHSO2	1-HR	INTER	1ST	8.82191	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
212	AerMod 1335	51614_1991_O	OTHSO2	1-HR	INTER	2ND	7.26413	523000	5053600	181.74	181.74	0	91060301	millnkt_91.SFC	2	4	10538
213	AerMod 1335	51614_1991_O	OTHSO2	3-HR	BOILER	1ST	0.24714	523320	5054660	105.18	105.18	0	91082424	millnkt_91.SFC	2	4	10538
214	AerMod 1335	51614_1991_O	OTHSO2	3-HR	BOILER	2ND	0.20475	523320	5054700	105.5	105.5	0	91010321	millnkt_91.SFC	2	4	10538
215	AerMod 1335	51614_1991_O	OTHSO2	3-HR	THRM150A	1ST	4.9988	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
216	AerMod 1335	51614_1991_O	OTHSO2	3-HR	THRM150A	2ND	4.04146	523000	5053600	181.74	181.74	0	91060303	millnkt_91.SFC	2	4	10538
217	AerMod 1335	51614_1991_O	OTHSO2	3-HR	OX150A	1ST	4.99876	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
218	AerMod 1335	51614_1991_O	OTHSO2	3-HR	OX150A	2ND	4.0413	523000	5053600	181.74	181.74	0	91060303	millnkt_91.SFC	2	4	10538
219	AerMod 1335	51614_1991_O	OTHSO2	3-HR	INTER	1ST	4.9988	523000	5053600	181.74	181.74	0	91082421	millnkt_91.SFC	2	4	10538
220	AerMod 1335	51614_1991_O	OTHSO2	3-HR	INTER	2ND	4.04146	523000	5053600	181.74	181.74	0	91060303	millnkt_91.SFC	2	4	10538
221	AerMod 1335	51614_1991_O	OTHSO2	24-HR	BOILER	1ST	0.17917	523070.8	5054572.4	123.93	130.11	0	91040924	millnkt_91.SFC	2	4	10538
222	AerMod 1335	51614_1991_O	OTHSO2	24-HR	BOILER	2ND	0.17158	523070.8	5054572.4	123.93	130.11	0	91103124	millnkt_91.SFC	2	4	10538
223	AerMod 1335	51614_1991_O	OTHSO2	24-HR	THRM150A	1ST	2.58057	523152	5054466	122.98	146.8	0	91102824	millnkt_91.SFC	2	4	10538
224	AerMod 1335	51614_1991_O	OTHSO2	24-HR	THRM150A	2ND	1.83386	523340	5054660	105.11	105.11	0	91091724	millnkt_91.SFC	2	4	10538
225	AerMod 1335	51614_1991_O	OTHSO2	24-HR	OX150A	1ST	2.50273	523152	5054466	122.98	146.8	0	91102824	millnkt_91.SFC	2	4	10538
226	AerMod 1335	51614_1991_O	OTHSO2	24-HR	OX150A	2ND	1.77633	523340	5054660	105.11	105.11	0	91091724	millnkt_91.SFC	2	4	10538
227	AerMod 1335	51614_1991_O	OTHSO2	24-HR	INTER	1ST	2.58057	523152	5054466	122.98	146.8	0	91102824	millnkt_91.SFC	2	4	10538
228	AerMod 1335	51614_1991_O	OTHSO2	24-HR	INTER	2ND	1.83386	523340	5054660	105.11	105.11	0	91091724	millnkt_91.SFC	2	4	10538
229	AerMod 1335	051614_1991_	PM10	ANNUAL	BOILER	1ST	0.34007	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_91.SFC	7	6	10538
230	AerMod 1335	051614_1991_	PM10	ANNUAL	PELCOOL	1ST	0.64998	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
231	AerMod 1335	051614_1991_	PM10	ANNUAL	OTHERPM	1ST	0.66285	523320	5054680	105.18	105.18	0	1 YEARS	millnkt_91.SFC	7	6	10538
232	AerMod 1335	051614_1991_	PM10	ANNUAL	THRM150A	1ST	1.76325	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
233	AerMod 1335	051614_1991_	PM10	ANNUAL	OX150A	1ST	0.18313	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_91.SFC	7	6	10538
234	AerMod 1335	051614_1991_	PM10	ANNUAL	INTER	1ST	1.76325	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
235	AerMod 1335	051614_1991_	PM10	24-HR	BOILER	1ST	2.05352	523070.8	5054572.4	123.93	130.11	0	91040924	millnkt_91.SFC	7	6	10538
236	AerMod 1335	051614_1991_	PM10	24-HR	BOILER	2ND	1.96657	523070.8	5054572.4	123.93	130.11	0	91103124	millnkt_91.SFC	7	6	10538
237	AerMod 1335	051614_1991_	PM10	24-HR	BOILER	6TH	1.45872	523059.2	5054587.6	123.6	130.11	0	91032424	millnkt_91.SFC	7	6	10538
238	AerMod 1335	051614_1991_	PM10	24-HR	PELCOOL	1ST	3.52288	523340	5054640	105.17	105.17	0	91072824	millnkt_91.SFC	7	6	10538
239	AerMod 1335	051614_1991_	PM10	24-HR	PELCOOL	2ND	3.27971	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
240	AerMod 1335	051614_1991_	PM10	24-HR	PELCOOL	6TH	2.55642	523340	5054640	105.17	105.17	0	91081324	millnkt_91.SFC	7	6	10538
241	AerMod 1335	051614_1991_	PM10	24-HR	OTHERPM	1ST	3.48676	523320	5054680	105.18	105.18	0	91081324	millnkt_91.SFC	7	6	10538
242	AerMod 1335	051614_1991_	PM10	24-HR	OTHERPM	2ND	2.79794	523330	5054670	105.12	105.12	0	91081424	millnkt_91.SFC	7	6	10538
243	AerMod 1335	051614_1991_	PM10	24-HR	OTHERPM	6TH	2.67942	523320	5054680	105.18	105.18	0	91071624	millnkt_91.SFC	7	6	10538
244	AerMod 1335	051614_1991_	PM10	24-HR	THRM150A	1ST	8.58279	523340	5054660	105.11	105.11	0	91081324	millnkt_91.SFC	7	6	10538
245	AerMod 1335	051614_1991_	PM10	24-HR	THRM150A	2ND	7.80941	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
246	AerMod 1335	051614_1991_	PM10	24-HR	THRM150A	6TH	5.93866	523340	5054660	105.11	105.11	0	91072424	millnkt_91.SFC	7	6	10538
247	AerMod 1335	051614_1991_	PM10	24-HR	OX150A	1ST	2.40638	523152	5054466	122.98	146.8	0	91102824	millnkt_91.SFC	7	6	10538
248	AerMod 1335	051614_1991_	PM10	24-HR	OX150A	2ND	1.70794	523340	5054660	105.11	105.11	0	91091724	millnkt_91.SFC	7	6	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
249	AerMod 13350	051614_1991_	PM10	24-HR	OX150A	6TH	1.25349	523350.5	5054583.5	107.83	107.83	0	91080724	millnkt_91.SFC	7	6	10538
250	AerMod 13350	051614_1991_	PM10	24-HR	INTER	1ST	8.58279	523340	5054660	105.11	105.11	0	91081324	millnkt_91.SFC	7	6	10538
251	AerMod 13350	051614_1991_	PM10	24-HR	INTER	2ND	7.80941	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
252	AerMod 13350	051614_1991_	PM10	24-HR	INTER	6TH	5.93866	523340	5054660	105.11	105.11	0	91072424	millnkt_91.SFC	7	6	10538
253	AerMod 13350	h 051614_1991_	PM2	ANNUAL	BOILER	1ST	0.34007	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_91.SFC	7	6	10538
254	AerMod 13350	h 051614_1991_	PM2	ANNUAL	PELCOOL	1ST	0.32499	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
255	AerMod 13350	h 051614_1991_	PM2	ANNUAL	OTHERPM	1ST	0.66285	523320	5054680	105.18	105.18	0	1 YEARS	millnkt_91.SFC	7	6	10538
256	AerMod 13350	h 051614_1991_	PM2	ANNUAL	THRM150A	1ST	1.43826	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
257	AerMod 13350	h 051614_1991_	PM2	ANNUAL	OX150A	1ST	0.18313	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_91.SFC	7	6	10538
258	AerMod 13350	h 051614_1991_	PM2	ANNUAL	INTER	1ST	1.43826	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_91.SFC	7	6	10538
259	AerMod 13350	h 051614_1991_	PM2	24-HR	BOILER	1ST	2.05352	523070.8	5054572.4	123.93	130.11	0	91040924	millnkt_91.SFC	7	6	10538
260	AerMod 13350	h 051614_1991_	PM2	24-HR	BOILER	2ND	1.96657	523070.8	5054572.4	123.93	130.11	0	91103124	millnkt_91.SFC	7	6	10538
261	AerMod 13350	h 051614_1991_	PM2	24-HR	PELCOOL	1ST	1.76144	523340	5054640	105.17	105.17	0	91072824	millnkt_91.SFC	7	6	10538
262	AerMod 13350	h 051614_1991_	PM2	24-HR	PELCOOL	2ND	1.63986	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
263	AerMod 13350	h 051614_1991_	PM2	24-HR	OTHERPM	1ST	3.48676	523320	5054680	105.18	105.18	0	91081324	millnkt_91.SFC	7	6	10538
264	AerMod 13350	h 051614_1991_	PM2	24-HR	OTHERPM	2ND	2.79794	523330	5054670	105.12	105.12	0	91081424	millnkt_91.SFC	7	6	10538
265	AerMod 13350	h 051614_1991_	PM2	24-HR	THRM150A	1ST	7.0828	523330	5054670	105.12	105.12	0	91081324	millnkt_91.SFC	7	6	10538
266	AerMod 13350	h 051614_1991_	PM2	24-HR	THRM150A	2ND	6.16955	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
267	AerMod 13350	h 051614_1991_	PM2	24-HR	OX150A	1ST	2.40638	523152	5054466	122.98	146.8	0	91102824	millnkt_91.SFC	7	6	10538
268	AerMod 13350	h 051614_1991_	PM2	24-HR	OX150A	2ND	1.70794	523340	5054660	105.11	105.11	0	91091724	millnkt_91.SFC	7	6	10538
269	AerMod 13350	h 051614_1991_	PM2	24-HR	INTER	1ST	7.0828	523330	5054670	105.12	105.12	0	91081324	millnkt_91.SFC	7	6	10538
270	AerMod 13350	h 051614_1991_	PM2	24-HR	INTER	2ND	6.16955	523340	5054640	105.17	105.17	0	91080724	millnkt_91.SFC	7	6	10538
271	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	BOILER	1ST	0.40351	523323.5	5054608.5	107.62	107.62	0	1 YEARS	millnkt_91.SFC	2	4	10538
272	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	THRM150A	1ST	8.82191	523000	5053600	181.74	181.74	0	1 YEARS	millnkt_91.SFC	2	4	10538
273	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	OX150A	1ST	8.82185	523000	5053600	181.74	181.74	0	1 YEARS	millnkt_91.SFC	2	4	10538
274	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	INTER	1ST	8.82191	523000	5053600	181.74	181.74	0	1 YEARS	millnkt_91.SFC	2	4	10538
275	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	BOILER	1ST	0.34428	523320	5054660	105.18	105.18	0	1 YEARS	millnkt_91.SFC	2	4	10538
276	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	THRM150A	1ST	4.93074	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_91.SFC	2	4	10538
277	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	OX150A	1ST	4.93037	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_91.SFC	2	4	10538
278	AerMod 13350	h 051614_1991_	SO2	HEST MAX DA	INTER	1ST	4.93074	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_91.SFC	2	4	10538
279	AerMod 13350	n 051614_1992	CO	1-HR	BOILER	1ST	28.4395	523460	5055120	125.66	125.66	0	92090423	millnkt_92.SFC	2	4	10538
280	AerMod 13350	n 051614_1992	CO	1-HR	BOILER	2ND	19.29444	523350	5054650	105.11	105.11	0	92100806	millnkt_92.SFC	2	4	10538
281	AerMod 13350	n 051614_1992	CO	1-HR	THRM150A	1ST	36.05059	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
282	AerMod 13350	n 051614_1992	CO	1-HR	THRM150A	2ND	31.0229	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
283	AerMod 13350	n 051614_1992	CO	1-HR	OX150A	1ST	36.04731	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
284	AerMod 13350	n 051614_1992	CO	1-HR	OX150A	2ND	31.02197	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
285	AerMod 13350	n 051614_1992	CO	1-HR	INTER	1ST	36.05059	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
286	AerMod 13350	n 051614_1992	CO	1-HR	INTER	2ND	31.0229	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
287	AerMod 13350	n 051614_1992	CO	8-HR	BOILER	1ST	10.73782	523070.8	5054572.4	123.93	130.11	0	92112408	millnkt_92.SFC	2	4	10538
288	AerMod 13350	n 051614_1992	CO	8-HR	BOILER	2ND	10.38776	523070.8	5054572.4	123.93	130.11	0	92030808	millnkt_92.SFC	2	4	10538
289	AerMod 13350	n 051614_1992	CO	8-HR	THRM150A	1ST	21.26834	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	2	4	10538
290	AerMod 13350	n 051614_1992	CO	8-HR	THRM150A	2ND	18.86898	523340	5054700	106.19	106.19	0	92073016	millnkt_92.SFC	2	4	10538
291	AerMod 13350	n 051614_1992	CO	8-HR	OX150A	1ST	14.979	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	2	4	10538
292	AerMod 13350	n 051614_1992	CO	8-HR	OX150A	2ND	13.86048	523340	5054700	106.19	106.19	0	92073016	millnkt_92.SFC	2	4	10538
293	AerMod 13350	n 051614_1992	CO	8-HR	INTER	1ST	21.26834	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	2	4	10538
294	AerMod 13350	n 051614_1992	CO	8-HR	INTER	2ND	18.86898	523340	5054700	106.19	106.19	0	92073016	millnkt_92.SFC	2	4	10538
295	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	EAST	1ST	243.12605	530320	5047716	207.3	207.3	0	1 YEARS	millnkt_92.SFC	5	5	10538
296	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	BOILER	1ST	21.03243	523460	5055120	125.66	125.66	0	1 YEARS	millnkt_92.SFC	5	5	10538
297	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	THRM150A	1ST	46.02026	522900	5053700	177.01	177.01	0	1 YEARS	millnkt_92.SFC	5	5	10538
298	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	OX150A	1ST	46.01784	522900	5053700	177.01	177.01	0	1 YEARS	millnkt_92.SFC	5	5	10538
299	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	INTER	1ST	243.13065	530320	5047716	207.3	207.3	0	1 YEARS	millnkt_92.SFC	5	5	10538
300	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	EAST	1ST	105.30512	530520	5047616	222.9	225.7	0	1 YEARS	millnkt_92.SFC	5	5	10538
301	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	BOILER	1ST	13.19339	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	5	5	10538
302	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	THRM150A	1ST	25.07406	523340	5054680	105.6	105.6	0	1 YEARS	millnkt_92.SFC	5	5	10538
303	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	OX150A	1ST	22.75627	523540	5055040	122.61	122.61	0	1 YEARS	millnkt_92.SFC	5	5	10538
304	AerMod 13350	h 051614_1992_	NO2	HEST MAX DA	INTER	1ST	105.31025	530520	5047616	222.9	225.7	0	1 YEARS	millnkt_92.SFC	5	5	10538
305	AerMod 13350	51614_1992_OT	OTHNO2	ANNUAL	EAST	1ST	2.75316	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_92.SFC	5	5	10538
306	AerMod 13350	51614_1992_OT	OTHNO2	ANNUAL	BOILER	1ST	1.23735	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	5	5	10538
307	AerMod 13350	51614_1992_OT	OTHNO2	ANNUAL	THRM150A	1ST	2.32647	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_92.SFC	5	5	10538
308	AerMod 13350	51614_1992_OT	OTHNO2	ANNUAL	OX150A	1ST	1.24021	523560	5054580	106.92	106.92	0	1 YEARS	millnkt_92.SFC	5	5	10538
309	AerMod 13350	51614_1992_OT	OTHNO2	ANNUAL	INTER	1ST	2.79134	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_92.SFC	5	5	10538
310	AerMod 13350	51614_1992_OT	OTHNO2	1-HR	EAST	1ST	243.12605	530320	5047716	207.3	207.3	0	92032001	millnkt_92.SFC	5	5	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
311	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	EAST	2ND	187.89913	530420	5047716	213.1	219.9	0	92052521	millnkt_92.SFC	5	5	10538
312	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	BOILER	1ST	21.03243	523460	5055120	125.66	125.66	0	92090423	millnkt_92.SFC	5	5	10538
313	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	BOILER	2ND	14.2692	523350	5054650	105.11	105.11	0	92100806	millnkt_92.SFC	5	5	10538
314	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	THRM150A	1ST	46.02026	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	5	5	10538
315	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	THRM150A	2ND	39.6032	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	5	5	10538
316	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	OX150A	1ST	46.01784	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	5	5	10538
317	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	OX150A	2ND	39.60252	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	5	5	10538
318	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	INTER	1ST	243.13065	530320	5047716	207.3	207.3	0	92032001	millnkt_92.SFC	5	5	10538
319	AerMod 1335(	51614_1992_OT	OTHNO2	1-HR	INTER	2ND	187.9098	530420	5047716	213.1	219.9	0	92052521	millnkt_92.SFC	5	5	10538
320	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	EAST	1ST	80.73938	546000	5030000	214.95	269.55	0	92091220	millnkt_92.SFC	5	5	10538
321	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	EAST	2ND	73.20303	530520	5047716	221.2	221.2	0	92010508	millnkt_92.SFC	5	5	10538
322	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	BOILER	1ST	10.1358	523330	5054670	105.12	105.12	0	92052804	millnkt_92.SFC	5	5	10538
323	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	BOILER	2ND	8.76369	523320	5054680	105.18	105.18	0	92082524	millnkt_92.SFC	5	5	10538
324	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	THRM150A	1ST	25.88943	523340	5054680	105.6	105.6	0	92080512	millnkt_92.SFC	5	5	10538
325	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	THRM150A	2ND	23.34128	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	5	5	10538
326	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	OX150A	1ST	21.50704	523340	5054680	105.6	105.6	0	92080512	millnkt_92.SFC	5	5	10538
327	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	OX150A	2ND	18.44269	523320	5054700	105.5	105.5	0	92080516	millnkt_92.SFC	5	5	10538
328	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	INTER	1ST	80.74359	546000	5030000	214.95	269.55	0	92091220	millnkt_92.SFC	5	5	10538
329	AerMod 1335(	51614_1992_OT	OTHNO2	4-HR	INTER	2ND	73.21022	530520	5047716	221.2	221.2	0	92010508	millnkt_92.SFC	5	5	10538
330	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	EAST	1ST	49.87257	533500	5053000	123.71	123.71	0	92091716	millnkt_92.SFC	5	5	10538
331	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	EAST	2ND	42.43615	533500	5053000	123.71	123.71	0	92091416	millnkt_92.SFC	5	5	10538
332	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	BOILER	1ST	7.94115	523070.8	5054572.4	123.93	130.11	0	92112408	millnkt_92.SFC	5	5	10538
333	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	BOILER	2ND	7.68227	523070.8	5054572.4	123.93	130.11	0	92030808	millnkt_92.SFC	5	5	10538
334	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	THRM150A	1ST	23.77341	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	5	5	10538
335	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	THRM150A	2ND	21.39827	523340	5054700	106.19	106.19	0	92073016	millnkt_92.SFC	5	5	10538
336	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	OX150A	1ST	19.12213	523340	5054700	106.19	106.19	0	92080516	millnkt_92.SFC	5	5	10538
337	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	OX150A	2ND	17.69423	523340	5054700	106.19	106.19	0	92073016	millnkt_92.SFC	5	5	10538
338	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	INTER	1ST	49.87307	533500	5053000	123.71	123.71	0	92091716	millnkt_92.SFC	5	5	10538
339	AerMod 1335(	51614_1992_OT	OTHNO2	8-HR	INTER	2ND	42.44087	533500	5053000	123.71	123.71	0	92091416	millnkt_92.SFC	5	5	10538
340	AerMod 1335(	51614_1992_OT	OTHSO2	ANNUAL	BOILER	1ST	0.02797	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	2	4	10538
341	AerMod 1335(	51614_1992_OT	OTHSO2	ANNUAL	THRM150A	1ST	0.23959	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_92.SFC	2	4	10538
342	AerMod 1335(	51614_1992_OT	OTHSO2	ANNUAL	OX150A	1ST	0.21531	523560	5054580	106.92	106.92	0	1 YEARS	millnkt_92.SFC	2	4	10538
343	AerMod 1335(	51614_1992_OT	OTHSO2	ANNUAL	INTER	1ST	0.23959	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_92.SFC	2	4	10538
344	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	BOILER	1ST	0.47552	523460	5055120	125.66	125.66	0	92090423	millnkt_92.SFC	2	4	10538
345	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	BOILER	2ND	0.32261	523350	5054650	105.11	105.11	0	92100806	millnkt_92.SFC	2	4	10538
346	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	THRM150A	1ST	7.98926	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
347	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	THRM150A	2ND	6.87545	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
348	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	OX150A	1ST	7.98921	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
349	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	OX150A	2ND	6.87544	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
350	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	INTER	1ST	7.98926	522900	5053700	177.01	177.01	0	92020704	millnkt_92.SFC	2	4	10538
351	AerMod 1335(	51614_1992_OT	OTHSO2	1-HR	INTER	2ND	6.87545	522900	5053600	179.09	179.09	0	92032001	millnkt_92.SFC	2	4	10538
352	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	BOILER	1ST	0.26267	523350	5054650	105.11	105.11	0	92100806	millnkt_92.SFC	2	4	10538
353	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	BOILER	2ND	0.22051	523330	5054670	105.12	105.12	0	92111521	millnkt_92.SFC	2	4	10538
354	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	THRM150A	1ST	3.90858	523340	5054680	105.6	105.6	0	92061215	millnkt_92.SFC	2	4	10538
355	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	THRM150A	2ND	3.79767	523340	5054680	105.6	105.6	0	92080512	millnkt_92.SFC	2	4	10538
356	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	OX150A	1ST	3.80675	523340	5054680	105.6	105.6	0	92061215	millnkt_92.SFC	2	4	10538
357	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	OX150A	2ND	3.69931	523340	5054680	105.6	105.6	0	92080512	millnkt_92.SFC	2	4	10538
358	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	INTER	1ST	3.90858	523340	5054680	105.6	105.6	0	92061215	millnkt_92.SFC	2	4	10538
359	AerMod 1335(	51614_1992_OT	OTHSO2	3-HR	INTER	2ND	3.79767	523340	5054680	105.6	105.6	0	92080512	millnkt_92.SFC	2	4	10538
360	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	BOILER	1ST	0.15741	523070.8	5054572.4	123.93	130.11	0	92030824	millnkt_92.SFC	2	4	10538
361	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	BOILER	2ND	0.14471	523070.8	5054572.4	123.93	130.11	0	92121224	millnkt_92.SFC	2	4	10538
362	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	THRM150A	1ST	2.38507	523360	5054620	105.31	105.31	0	92102724	millnkt_92.SFC	2	4	10538
363	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	THRM150A	2ND	2.10869	523360	5054600	106.09	106.09	0	92102724	millnkt_92.SFC	2	4	10538
364	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	OX150A	1ST	2.32258	523360	5054620	105.31	105.31	0	92102724	millnkt_92.SFC	2	4	10538
365	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	OX150A	2ND	2.06116	523360	5054600	106.09	106.09	0	92102724	millnkt_92.SFC	2	4	10538
366	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	INTER	1ST	2.38507	523360	5054620	105.31	105.31	0	92102724	millnkt_92.SFC	2	4	10538
367	AerMod 1335(	51614_1992_OT	OTHSO2	24-HR	INTER	2ND	2.10869	523360	5054600	106.09	106.09	0	92102724	millnkt_92.SFC	2	4	10538
368	AerMod 1335(	051614_1992_	PM10	ANNUAL	BOILER	1ST	0.32064	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	7	6	10538
369	AerMod 1335(	051614_1992_	PM10	ANNUAL	PELCOOL	1ST	0.61631	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_92.SFC	7	6	10538
370	AerMod 1335(	051614_1992_	PM10	ANNUAL	OTHERPM	1ST	0.59428	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
371	AerMod 1335(	051614_1992_	PM10	ANNUAL	THRM150A	1ST	1.65805	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
372	AerMod 1335(	051614_1992_	PM10	ANNUAL	OX150A	1ST	0.20703	523560	5054580	106.92	106.92	0	1 YEARS	millnkt_92.SFC	7	6	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
373	AerMod 1335(	051614_1992_	PM10	ANNUAL	INTER	1ST	1.65805	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
374	AerMod 1335(	051614_1992_	PM10	24-HR	BOILER	1ST	1.80412	523070.8	5054572.4	123.93	130.11	0	92030824	millnkt_92.SFC	7	6	10538
375	AerMod 1335(	051614_1992_	PM10	24-HR	BOILER	2ND	1.65865	523070.8	5054572.4	123.93	130.11	0	92121224	millnkt_92.SFC	7	6	10538
376	AerMod 1335(	051614_1992_	PM10	24-HR	BOILER	6TH	1.44596	523060	5054580	124.57	129.23	0	92121224	millnkt_92.SFC	7	6	10538
377	AerMod 1335(	051614_1992_	PM10	24-HR	PELCOOL	1ST	3.24177	523340	5054640	105.17	105.17	0	92082524	millnkt_92.SFC	7	6	10538
378	AerMod 1335(	051614_1992_	PM10	24-HR	PELCOOL	2ND	3.04224	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
379	AerMod 1335(	051614_1992_	PM10	24-HR	PELCOOL	6TH	2.12901	523350.5	5054583.5	107.83	107.83	0	92100624	millnkt_92.SFC	7	6	10538
380	AerMod 1335(	051614_1992_	PM10	24-HR	OTHERPM	1ST	3.41754	523330	5054670	105.12	105.12	0	92082524	millnkt_92.SFC	7	6	10538
381	AerMod 1335(	051614_1992_	PM10	24-HR	OTHERPM	2ND	2.76247	523320	5054680	105.18	105.18	0	92052124	millnkt_92.SFC	7	6	10538
382	AerMod 1335(	051614_1992_	PM10	24-HR	OTHERPM	6TH	2.49968	523320	5054680	105.18	105.18	0	92091324	millnkt_92.SFC	7	6	10538
383	AerMod 1335(	051614_1992_	PM10	24-HR	THRM150A	1ST	7.61462	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
384	AerMod 1335(	051614_1992_	PM10	24-HR	THRM150A	2ND	6.89966	523340	5054640	105.17	105.17	0	92082524	millnkt_92.SFC	7	6	10538
385	AerMod 1335(	051614_1992_	PM10	24-HR	THRM150A	6TH	5.36749	523340	5054640	105.17	105.17	0	92061124	millnkt_92.SFC	7	6	10538
386	AerMod 1335(	051614_1992_	PM10	24-HR	OX150A	1ST	2.23316	523360	5054620	105.31	105.31	0	92102724	millnkt_92.SFC	7	6	10538
387	AerMod 1335(	051614_1992_	PM10	24-HR	OX150A	2ND	1.98181	523360	5054600	106.09	106.09	0	92102724	millnkt_92.SFC	7	6	10538
388	AerMod 1335(	051614_1992_	PM10	24-HR	OX150A	6TH	1.46755	523360	5054620	105.31	105.31	0	92101724	millnkt_92.SFC	7	6	10538
389	AerMod 1335(	051614_1992_	PM10	24-HR	INTER	1ST	7.61462	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
390	AerMod 1335(	051614_1992_	PM10	24-HR	INTER	2ND	6.89966	523340	5054640	105.17	105.17	0	92082524	millnkt_92.SFC	7	6	10538
391	AerMod 1335(	051614_1992_	PM10	24-HR	INTER	6TH	5.36749	523340	5054640	105.17	105.17	0	92061124	millnkt_92.SFC	7	6	10538
392	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	BOILER	1ST	0.32064	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	7	6	10538
393	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	PELCOOL	1ST	0.30816	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_92.SFC	7	6	10538
394	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	OTHERPM	1ST	0.59428	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
395	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	THRM150A	1ST	1.36784	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
396	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	OX150A	1ST	0.20703	523560	5054580	106.92	106.92	0	1 YEARS	millnkt_92.SFC	7	6	10538
397	AerMod 1335(	h 051614_1992_	PM2	ANNUAL	INTER	1ST	1.36784	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_92.SFC	7	6	10538
398	AerMod 1335(	h 051614_1992_	PM2	24-HR	BOILER	1ST	1.80412	523070.8	5054572.4	123.93	130.11	0	92030824	millnkt_92.SFC	7	6	10538
399	AerMod 1335(	h 051614_1992_	PM2	24-HR	BOILER	2ND	1.65865	523070.8	5054572.4	123.93	130.11	0	92121224	millnkt_92.SFC	7	6	10538
400	AerMod 1335(	h 051614_1992_	PM2	24-HR	PELCOOL	1ST	1.62089	523340	5054640	105.17	105.17	0	92082524	millnkt_92.SFC	7	6	10538
401	AerMod 1335(	h 051614_1992_	PM2	24-HR	PELCOOL	2ND	1.52112	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
402	AerMod 1335(	h 051614_1992_	PM2	24-HR	OTHERPM	1ST	3.41754	523330	5054670	105.12	105.12	0	92082524	millnkt_92.SFC	7	6	10538
403	AerMod 1335(	h 051614_1992_	PM2	24-HR	OTHERPM	2ND	2.76247	523320	5054680	105.18	105.18	0	92052124	millnkt_92.SFC	7	6	10538
404	AerMod 1335(	h 051614_1992_	PM2	24-HR	THRM150A	1ST	6.0935	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
405	AerMod 1335(	h 051614_1992_	PM2	24-HR	THRM150A	2ND	5.51176	523350	5054650	105.11	105.11	0	92082524	millnkt_92.SFC	7	6	10538
406	AerMod 1335(	h 051614_1992_	PM2	24-HR	OX150A	1ST	2.23316	523360	5054620	105.31	105.31	0	92102724	millnkt_92.SFC	7	6	10538
407	AerMod 1335(	h 051614_1992_	PM2	24-HR	OX150A	2ND	1.98181	523360	5054600	106.09	106.09	0	92102724	millnkt_92.SFC	7	6	10538
408	AerMod 1335(	h 051614_1992_	PM2	24-HR	INTER	1ST	6.0935	523340	5054640	105.17	105.17	0	92090124	millnkt_92.SFC	7	6	10538
409	AerMod 1335(	h 051614_1992_	PM2	24-HR	INTER	2ND	5.51176	523350	5054650	105.11	105.11	0	92082524	millnkt_92.SFC	7	6	10538
410	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	BOILER	1ST	0.47552	523460	5055120	125.66	125.66	0	1 YEARS	millnkt_92.SFC	2	4	10538
411	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	THRM150A	1ST	7.98926	522900	5053700	177.01	177.01	0	1 YEARS	millnkt_92.SFC	2	4	10538
412	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	OX150A	1ST	7.98921	522900	5053700	177.01	177.01	0	1 YEARS	millnkt_92.SFC	2	4	10538
413	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	INTER	1ST	7.98926	522900	5053700	177.01	177.01	0	1 YEARS	millnkt_92.SFC	2	4	10538
414	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	BOILER	1ST	0.30987	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_92.SFC	2	4	10538
415	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	THRM150A	1ST	5.86168	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_92.SFC	2	4	10538
416	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	OX150A	1ST	5.86158	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_92.SFC	2	4	10538
417	AerMod 1335(	h 051614_1992_	SO2	HEST MAX DA	INTER	1ST	5.86168	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_92.SFC	2	4	10538
418	AerMod 1335(	n 051614_1993_	CO	1-HR	BOILER	1ST	26.21756	523160	5054460	122.87	149.71	0	93091622	millnkt_93.SFC	2	4	10538
419	AerMod 1335(	n 051614_1993_	CO	1-HR	BOILER	2ND	21.13265	523320	5054620	107.04	107.04	0	93090123	millnkt_93.SFC	2	4	10538
420	AerMod 1335(	n 051614_1993_	CO	1-HR	THRM150A	1ST	29.8773	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
421	AerMod 1335(	n 051614_1993_	CO	1-HR	THRM150A	2ND	25.02961	523036	5054618	123.2	143.34	0	93030511	millnkt_93.SFC	2	4	10538
422	AerMod 1335(	n 051614_1993_	CO	1-HR	OX150A	1ST	29.87641	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
423	AerMod 1335(	n 051614_1993_	CO	1-HR	OX150A	2ND	22.45417	523200	5053600	180.3	180.3	0	93090119	millnkt_93.SFC	2	4	10538
424	AerMod 1335(	n 051614_1993_	CO	1-HR	INTER	1ST	29.8773	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
425	AerMod 1335(	n 051614_1993_	CO	1-HR	INTER	2ND	25.02961	523036	5054618	123.2	143.34	0	93030511	millnkt_93.SFC	2	4	10538
426	AerMod 1335(	n 051614_1993_	CO	8-HR	BOILER	1ST	10.80141	523080	5054560	123.76	131.7	0	93090608	millnkt_93.SFC	2	4	10538
427	AerMod 1335(	n 051614_1993_	CO	8-HR	BOILER	2ND	10.40855	523070.8	5054572.4	123.93	130.11	0	93013124	millnkt_93.SFC	2	4	10538
428	AerMod 1335(	n 051614_1993_	CO	8-HR	THRM150A	1ST	19.19346	523340	5054680	105.6	105.6	0	93112916	millnkt_93.SFC	2	4	10538
429	AerMod 1335(	n 051614_1993_	CO	8-HR	THRM150A	2ND	17.9842	523100	5054520	124.18	140.47	0	93121616	millnkt_93.SFC	2	4	10538
430	AerMod 1335(	n 051614_1993_	CO	8-HR	OX150A	1ST	13.3829	523340	5054680	105.6	105.6	0	93112916	millnkt_93.SFC	2	4	10538
431	AerMod 1335(	n 051614_1993_	CO	8-HR	OX150A	2ND	12.61475	523100	5054520	124.18	140.47	0	93121616	millnkt_93.SFC	2	4	10538
432	AerMod 1335(	n 051614_1993_	CO	8-HR	INTER	1ST	19.19346	523340	5054680	105.6	105.6	0	93112916	millnkt_93.SFC	2	4	10538
433	AerMod 1335(	n 051614_1993_	CO	8-HR	INTER	2ND	17.9842	523100	5054520	124.18	140.47	0	93121616	millnkt_93.SFC	2	4	10538
434	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	EAST	1ST	236.77074	530720	5047216	215.1	215.1	0	1 YEARS	millnkt_93.SFC	5	5	10538

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Table D-2, Criteria Results

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
435	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	BOILER	1ST	19.38919	523160	5054460	122.87	149.71	0	1 YEARS	millnkt_93.SFC	5	5	10538
436	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	THRM150A	1ST	38.14075	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_93.SFC	5	5	10538
437	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	OX150A	1ST	38.14009	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_93.SFC	5	5	10538
438	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	INTER	1ST	236.77479	530720	5047216	215.1	215.1	0	1 YEARS	millnkt_93.SFC	5	5	10538
439	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	EAST	1ST	121.64105	530720	5047416	222.6	222.6	0	1 YEARS	millnkt_93.SFC	5	5	10538
440	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	BOILER	1ST	12.91383	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_93.SFC	5	5	10538
441	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	THRM150A	1ST	24.24733	523350	5054650	105.11	105.11	0	1 YEARS	millnkt_93.SFC	5	5	10538
442	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	OX150A	1ST	22.12074	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_93.SFC	5	5	10538
443	AerMod 1335(	h 051614_1993_	NO2	HEST MAX DA	INTER	1ST	121.6416	530720	5047416	222.6	222.6	0	1 YEARS	millnkt_93.SFC	5	5	10538
444	AerMod 1335(	51614_1993_O	OTHNO2	ANNUAL	EAST	1ST	2.283	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_93.SFC	5	5	10538
445	AerMod 1335(	51614_1993_O	OTHNO2	ANNUAL	BOILER	1ST	1.15738	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_93.SFC	5	5	10538
446	AerMod 1335(	51614_1993_O	OTHNO2	ANNUAL	THRM150A	1ST	2.22192	523350	5054650	105.11	105.11	0	1 YEARS	millnkt_93.SFC	5	5	10538
447	AerMod 1335(	51614_1993_O	OTHNO2	ANNUAL	OX150A	1ST	1.2643	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_93.SFC	5	5	10538
448	AerMod 1335(	51614_1993_O	OTHNO2	ANNUAL	INTER	1ST	2.35983	523350	5054650	105.11	105.11	0	1 YEARS	millnkt_93.SFC	5	5	10538
449	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	EAST	1ST	236.77074	530720	5047216	215.1	215.1	0	93090122	millnkt_93.SFC	5	5	10538
450	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	EAST	2ND	211.05085	530720	5047216	215.1	215.1	0	93022806	millnkt_93.SFC	5	5	10538
451	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	BOILER	1ST	19.38919	523160	5054460	122.87	149.71	0	93091622	millnkt_93.SFC	5	5	10538
452	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	BOILER	2ND	15.62865	523320	5054620	107.04	107.04	0	93090123	millnkt_93.SFC	5	5	10538
453	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	THRM150A	1ST	38.14075	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	5	5	10538
454	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	THRM150A	2ND	29.2072	523036	5054618	123.2	143.34	0	93021701	millnkt_93.SFC	5	5	10538
455	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	OX150A	1ST	38.14009	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	5	5	10538
456	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	OX150A	2ND	28.6649	523200	5053600	180.3	180.3	0	93090119	millnkt_93.SFC	5	5	10538
457	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	INTER	1ST	236.77479	530720	5047216	215.1	215.1	0	93090122	millnkt_93.SFC	5	5	10538
458	AerMod 1335(	51614_1993_O	OTHNO2	1-HR	INTER	2ND	211.05191	530720	5047216	215.1	215.1	0	93022806	millnkt_93.SFC	5	5	10538
459	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	EAST	1ST	94.92648	530620	5047616	226.5	226.5	0	93011304	millnkt_93.SFC	5	5	10538
460	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	EAST	2ND	84.57504	530620.14	5047516.03	228.13	228.13	0	93072524	millnkt_93.SFC	5	5	10538
461	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	BOILER	1ST	10.8293	523320	5054680	105.18	105.18	0	93081404	millnkt_93.SFC	5	5	10538
462	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	BOILER	2ND	8.62854	523070.8	5054572.4	123.93	130.11	0	93022204	millnkt_93.SFC	5	5	10538
463	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	THRM150A	1ST	25.26263	523560	5055060	122.28	122.28	0	93071224	millnkt_93.SFC	5	5	10538
464	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	THRM150A	2ND	23.21922	523340	5054640	105.17	105.17	0	93092424	millnkt_93.SFC	5	5	10538
465	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	OX150A	1ST	22.36374	523560	5055080	122.49	122.49	0	93071224	millnkt_93.SFC	5	5	10538
466	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	OX150A	2ND	19.27798	523340	5054640	105.17	105.17	0	93092424	millnkt_93.SFC	5	5	10538
467	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	INTER	1ST	94.93218	530620	5047616	226.5	226.5	0	93011304	millnkt_93.SFC	5	5	10538
468	AerMod 1335(	51614_1993_O	OTHNO2	4-HR	INTER	2ND	84.58024	530620.14	5047516.03	228.13	228.13	0	93072524	millnkt_93.SFC	5	5	10538
469	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	EAST	1ST	60.93141	533000	5053000	116.45	116.45	0	93070616	millnkt_93.SFC	5	5	10538
470	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	EAST	2ND	52.13674	530620.14	5047516.03	228.13	228.13	0	93011308	millnkt_93.SFC	5	5	10538
471	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	BOILER	1ST	7.98818	523080	5054560	123.76	131.7	0	93090608	millnkt_93.SFC	5	5	10538
472	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	BOILER	2ND	7.69764	523070.8	5054572.4	123.93	130.11	0	93013124	millnkt_93.SFC	5	5	10538
473	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	THRM150A	1ST	21.38175	523340	5054680	105.6	105.6	0	93112916	millnkt_93.SFC	5	5	10538
474	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	THRM150A	2ND	20.07491	523100	5054520	124.18	140.47	0	93121616	millnkt_93.SFC	5	5	10538
475	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	OX150A	1ST	17.08455	523340	5054680	105.6	105.6	0	93112916	millnkt_93.SFC	5	5	10538
476	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	OX150A	2ND	16.10393	523100	5054520	124.18	140.47	0	93121616	millnkt_93.SFC	5	5	10538
477	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	INTER	1ST	60.93331	533000	5053000	116.45	116.45	0	93070616	millnkt_93.SFC	5	5	10538
478	AerMod 1335(	51614_1993_O	OTHNO2	8-HR	INTER	2ND	52.13985	530620.14	5047516.03	228.13	228.13	0	93011308	millnkt_93.SFC	5	5	10538
479	AerMod 1335(	51614_1993_O	OTHSO2	ANNUAL	BOILER	1ST	0.02617	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_93.SFC	2	4	10538
480	AerMod 1335(	51614_1993_O	OTHSO2	ANNUAL	THRM150A	1ST	0.24042	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_93.SFC	2	4	10538
481	AerMod 1335(	51614_1993_O	OTHSO2	ANNUAL	OX150A	1ST	0.2195	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_93.SFC	2	4	10538
482	AerMod 1335(	51614_1993_O	OTHSO2	ANNUAL	INTER	1ST	0.24042	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_93.SFC	2	4	10538
483	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	BOILER	1ST	0.43836	523160	5054460	122.87	149.71	0	93091622	millnkt_93.SFC	2	4	10538
484	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	BOILER	2ND	0.35334	523320	5054620	107.04	107.04	0	93090123	millnkt_93.SFC	2	4	10538
485	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	THRM150A	1ST	6.62156	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
486	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	THRM150A	2ND	4.9766	523200	5053600	180.3	180.3	0	93090119	millnkt_93.SFC	2	4	10538
487	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	OX150A	1ST	6.62154	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
488	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	OX150A	2ND	4.97655	523200	5053600	180.3	180.3	0	93090119	millnkt_93.SFC	2	4	10538
489	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	INTER	1ST	6.62156	523300	5053400	177.98	177.98	0	93050222	millnkt_93.SFC	2	4	10538
490	AerMod 1335(	51614_1993_O	OTHSO2	1-HR	INTER	2ND	4.9766	523200	5053600	180.3	180.3	0	93090119	millnkt_93.SFC	2	4	10538
491	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	BOILER	1ST	0.23918	523070.8	5054572.4	123.93	130.11	0	93043003	millnkt_93.SFC	2	4	10538
492	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	BOILER	2ND	0.20262	523320	5054640	105.88	105.88	0	93120821	millnkt_93.SFC	2	4	10538
493	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	THRM150A	1ST	4.05365	523540	5055060	122.96	122.96	0	93071224	millnkt_93.SFC	2	4	10538
494	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	THRM150A	2ND	3.66978	523040	5054600	124.86	129.01	0	93030509	millnkt_93.SFC	2	4	10538
495	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	OX150A	1ST	4.0081	523540	5055060	122.96	122.96	0	93071224	millnkt_93.SFC	2	4	10538
496	AerMod 1335(	51614_1993_O	OTHSO2	3-HR	OX150A	2ND	3.57532	523040	5054600	124.86	129.01	0	93030506	millnkt_93.SFC	2	4	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
497	AerMod 1335	51614_1993_O	OTHSO2	3-HR	INTER	1ST	4.05365	523540	5055060	122.96	122.96	0	93071224	millnkt_93.SFC	2	4	10538
498	AerMod 1335	51614_1993_O	OTHSO2	3-HR	INTER	2ND	3.66978	523040	5054600	124.86	129.01	0	93030509	millnkt_93.SFC	2	4	10538
499	AerMod 1335	51614_1993_O	OTHSO2	24-HR	BOILER	1ST	0.15218	523070.8	5054572.4	123.93	130.11	0	93040224	millnkt_93.SFC	2	4	10538
500	AerMod 1335	51614_1993_O	OTHSO2	24-HR	BOILER	2ND	0.15069	523070.8	5054572.4	123.93	130.11	0	93100824	millnkt_93.SFC	2	4	10538
501	AerMod 1335	51614_1993_O	OTHSO2	24-HR	THRM150A	1ST	2.59377	523040	5054600	124.86	129.01	0	93030524	millnkt_93.SFC	2	4	10538
502	AerMod 1335	51614_1993_O	OTHSO2	24-HR	THRM150A	2ND	1.96531	523360	5054620	105.31	105.31	0	93091124	millnkt_93.SFC	2	4	10538
503	AerMod 1335	51614_1993_O	OTHSO2	24-HR	OX150A	1ST	2.50745	523040	5054600	124.86	129.01	0	93030524	millnkt_93.SFC	2	4	10538
504	AerMod 1335	51614_1993_O	OTHSO2	24-HR	OX150A	2ND	1.89202	523340	5054640	105.17	105.17	0	93061424	millnkt_93.SFC	2	4	10538
505	AerMod 1335	51614_1993_O	OTHSO2	24-HR	INTER	1ST	2.59377	523040	5054600	124.86	129.01	0	93030524	millnkt_93.SFC	2	4	10538
506	AerMod 1335	51614_1993_O	OTHSO2	24-HR	INTER	2ND	1.96531	523360	5054620	105.31	105.31	0	93091124	millnkt_93.SFC	2	4	10538
507	AerMod 1335	051614_1993_	PM10	ANNUAL	BOILER	1ST	0.29991	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_93.SFC	7	6	10538
508	AerMod 1335	051614_1993_	PM10	ANNUAL	PELCOOL	1ST	0.57203	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_93.SFC	7	6	10538
509	AerMod 1335	051614_1993_	PM10	ANNUAL	OTHERPM	1ST	0.55819	523320	5054660	105.18	105.18	0	1 YEARS	millnkt_93.SFC	7	6	10538
510	AerMod 1335	051614_1993_	PM10	ANNUAL	THRM150A	1ST	1.57833	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_93.SFC	7	6	10538
511	AerMod 1335	051614_1993_	PM10	ANNUAL	OX150A	1ST	0.21105	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_93.SFC	7	6	10538
512	AerMod 1335	051614_1993_	PM10	ANNUAL	INTER	1ST	1.57833	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_93.SFC	7	6	10538
513	AerMod 1335	051614_1993_	PM10	24-HR	BOILER	1ST	1.74427	523070.8	5054572.4	123.93	130.11	0	93040224	millnkt_93.SFC	7	6	10538
514	AerMod 1335	051614_1993_	PM10	24-HR	BOILER	2ND	1.7271	523070.8	5054572.4	123.93	130.11	0	93100824	millnkt_93.SFC	7	6	10538
515	AerMod 1335	051614_1993_	PM10	24-HR	BOILER	6TH	1.27075	523059.2	5054587.6	123.6	130.11	0	93030924	millnkt_93.SFC	7	6	10538
516	AerMod 1335	051614_1993_	PM10	24-HR	PELCOOL	1ST	2.69539	523340	5054640	105.17	105.17	0	93071424	millnkt_93.SFC	7	6	10538
517	AerMod 1335	051614_1993_	PM10	24-HR	PELCOOL	2ND	2.61695	523340	5054640	105.17	105.17	0	93061424	millnkt_93.SFC	7	6	10538
518	AerMod 1335	051614_1993_	PM10	24-HR	PELCOOL	6TH	2.10669	523340	5054620	106.15	106.15	0	93122724	millnkt_93.SFC	7	6	10538
519	AerMod 1335	051614_1993_	PM10	24-HR	OTHERPM	1ST	3.01537	523320	5054680	105.18	105.18	0	93081524	millnkt_93.SFC	7	6	10538
520	AerMod 1335	051614_1993_	PM10	24-HR	OTHERPM	2ND	2.83344	523320	5054680	105.18	105.18	0	93070124	millnkt_93.SFC	7	6	10538
521	AerMod 1335	051614_1993_	PM10	24-HR	OTHERPM	6TH	2.45272	523320	5054680	105.18	105.18	0	93061424	millnkt_93.SFC	7	6	10538
522	AerMod 1335	051614_1993_	PM10	24-HR	THRM150A	1ST	6.96403	523340	5054660	105.11	105.11	0	93112924	millnkt_93.SFC	7	6	10538
523	AerMod 1335	051614_1993_	PM10	24-HR	THRM150A	2ND	6.94619	523340	5054660	105.11	105.11	0	93061424	millnkt_93.SFC	7	6	10538
524	AerMod 1335	051614_1993_	PM10	24-HR	THRM150A	6TH	5.74356	523340	5054640	105.17	105.17	0	93071124	millnkt_93.SFC	7	6	10538
525	AerMod 1335	051614_1993_	PM10	24-HR	OX150A	1ST	2.41091	523040	5054600	124.86	129.01	0	93030524	millnkt_93.SFC	7	6	10538
526	AerMod 1335	051614_1993_	PM10	24-HR	OX150A	2ND	1.81918	523340	5054640	105.17	105.17	0	93061424	millnkt_93.SFC	7	6	10538
527	AerMod 1335	051614_1993_	PM10	24-HR	OX150A	6TH	1.53688	523360	5054600	106.09	106.09	0	93031224	millnkt_93.SFC	7	6	10538
528	AerMod 1335	051614_1993_	PM10	24-HR	INTER	1ST	6.96403	523340	5054660	105.11	105.11	0	93112924	millnkt_93.SFC	7	6	10538
529	AerMod 1335	051614_1993_	PM10	24-HR	INTER	2ND	6.94619	523340	5054660	105.11	105.11	0	93061424	millnkt_93.SFC	7	6	10538
530	AerMod 1335	051614_1993_	PM10	24-HR	INTER	6TH	5.74356	523340	5054640	105.17	105.17	0	93071124	millnkt_93.SFC	7	6	10538
531	AerMod 1335	h 051614_1993	PM2	ANNUAL	BOILER	1ST	0.29991	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_93.SFC	7	6	10538
532	AerMod 1335	h 051614_1993	PM2	ANNUAL	PELCOOL	1ST	0.28602	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_93.SFC	7	6	10538
533	AerMod 1335	h 051614_1993	PM2	ANNUAL	OTHERPM	1ST	0.55819	523320	5054660	105.18	105.18	0	1 YEARS	millnkt_93.SFC	7	6	10538
534	AerMod 1335	h 051614_1993	PM2	ANNUAL	THRM150A	1ST	1.29816	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_93.SFC	7	6	10538
535	AerMod 1335	h 051614_1993	PM2	ANNUAL	OX150A	1ST	0.21105	523540	5054580	106.77	106.77	0	1 YEARS	millnkt_93.SFC	7	6	10538
536	AerMod 1335	h 051614_1993	PM2	ANNUAL	INTER	1ST	1.29816	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_93.SFC	7	6	10538
537	AerMod 1335	h 051614_1993	PM2	24-HR	BOILER	1ST	1.74427	523070.8	5054572.4	123.93	130.11	0	93040224	millnkt_93.SFC	7	6	10538
538	AerMod 1335	h 051614_1993	PM2	24-HR	BOILER	2ND	1.7271	523070.8	5054572.4	123.93	130.11	0	93100824	millnkt_93.SFC	7	6	10538
539	AerMod 1335	h 051614_1993	PM2	24-HR	PELCOOL	1ST	1.34769	523340	5054640	105.17	105.17	0	93071424	millnkt_93.SFC	7	6	10538
540	AerMod 1335	h 051614_1993	PM2	24-HR	PELCOOL	2ND	1.30847	523340	5054640	105.17	105.17	0	93061424	millnkt_93.SFC	7	6	10538
541	AerMod 1335	h 051614_1993	PM2	24-HR	OTHERPM	1ST	3.01537	523320	5054680	105.18	105.18	0	93081524	millnkt_93.SFC	7	6	10538
542	AerMod 1335	h 051614_1993	PM2	24-HR	OTHERPM	2ND	2.83344	523320	5054680	105.18	105.18	0	93070124	millnkt_93.SFC	7	6	10538
543	AerMod 1335	h 051614_1993	PM2	24-HR	THRM150A	1ST	5.84406	523340	5054660	105.11	105.11	0	93112924	millnkt_93.SFC	7	6	10538
544	AerMod 1335	h 051614_1993	PM2	24-HR	THRM150A	2ND	5.76208	523340	5054660	105.11	105.11	0	93061424	millnkt_93.SFC	7	6	10538
545	AerMod 1335	h 051614_1993	PM2	24-HR	OX150A	1ST	2.41091	523040	5054600	124.86	129.01	0	93030524	millnkt_93.SFC	7	6	10538
546	AerMod 1335	h 051614_1993	PM2	24-HR	OX150A	2ND	1.81918	523340	5054640	105.17	105.17	0	93061424	millnkt_93.SFC	7	6	10538
547	AerMod 1335	h 051614_1993	PM2	24-HR	INTER	1ST	5.84406	523340	5054660	105.11	105.11	0	93112924	millnkt_93.SFC	7	6	10538
548	AerMod 1335	h 051614_1993	PM2	24-HR	INTER	2ND	5.76208	523340	5054660	105.11	105.11	0	93061424	millnkt_93.SFC	7	6	10538
549	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	BOILER	1ST	0.43836	523160	5054460	122.87	149.71	0	1 YEARS	millnkt_93.SFC	2	4	10538
550	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	THRM150A	1ST	6.62156	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_93.SFC	2	4	10538
551	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	OX150A	1ST	6.62154	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_93.SFC	2	4	10538
552	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	INTER	1ST	6.62156	523300	5053400	177.98	177.98	0	1 YEARS	millnkt_93.SFC	2	4	10538
553	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	BOILER	1ST	0.33215	523320	5054620	107.04	107.04	0	1 YEARS	millnkt_93.SFC	2	4	10538
554	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	THRM150A	1ST	4.21783	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_93.SFC	2	4	10538
555	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	OX150A	1ST	4.21783	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_93.SFC	2	4	10538
556	AerMod 1335	h 051614_1993	SO2	HEST MAX DA	INTER	1ST	4.21783	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_93.SFC	2	4	10538
557	AerMod 1335	n 051614_1994	CO	1-HR	BOILER	1ST	25.84682	523320	5054660	105.18	105.18	0	94101123	millnkt_94-95.SFC	2	4	10538
558	AerMod 1335	n 051614_1994	CO	1-HR	BOILER	2ND	24.65152	523300	5054640	106.79	106.79	0	94092123	millnkt_94-95.SFC	2	4	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
559	AerMod 1335	n 051614_1994	CO	1-HR	THRM150A	1ST	57.74472	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
560	AerMod 1335	n 051614_1994	CO	1-HR	THRM150A	2ND	44.83926	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
561	AerMod 1335	n 051614_1994	CO	1-HR	OX150A	1ST	57.74464	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
562	AerMod 1335	n 051614_1994	CO	1-HR	OX150A	2ND	44.83342	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
563	AerMod 1335	n 051614_1994	CO	1-HR	INTER	1ST	57.74472	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
564	AerMod 1335	n 051614_1994	CO	1-HR	INTER	2ND	44.83926	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
565	AerMod 1335	n 051614_1994	CO	8-HR	BOILER	1ST	11.62051	523070.8	5054572.4	123.93	130.11	0	95012208	millnkt_94-95.SFC	2	4	10538
566	AerMod 1335	n 051614_1994	CO	8-HR	BOILER	2ND	11.55182	523070.8	5054572.4	123.93	130.11	0	95051308	millnkt_94-95.SFC	2	4	10538
567	AerMod 1335	n 051614_1994	CO	8-HR	THRM150A	1ST	20.97527	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	2	4	10538
568	AerMod 1335	n 051614_1994	CO	8-HR	THRM150A	2ND	18.3155	523350	5054650	105.11	105.11	0	94083016	millnkt_94-95.SFC	2	4	10538
569	AerMod 1335	n 051614_1994	CO	8-HR	OX150A	1ST	20.95977	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	2	4	10538
570	AerMod 1335	n 051614_1994	CO	8-HR	OX150A	2ND	13.40661	523350	5054650	105.11	105.11	0	94083016	millnkt_94-95.SFC	2	4	10538
571	AerMod 1335	n 051614_1994	CO	8-HR	INTER	1ST	20.97527	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	2	4	10538
572	AerMod 1335	n 051614_1994	CO	8-HR	INTER	2ND	18.3155	523350	5054650	105.11	105.11	0	94083016	millnkt_94-95.SFC	2	4	10538
573	AerMod 1335	051614_1994	NO2	IEST MAX DA	EAST	1ST	389.29633	530720	5047716	214.1	214.1	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
574	AerMod 1335	051614_1994	NO2	IEST MAX DA	BOILER	1ST	19.11501	523320	5054660	105.18	105.18	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
575	AerMod 1335	051614_1994	NO2	IEST MAX DA	THRM150A	1ST	73.71662	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
576	AerMod 1335	051614_1994	NO2	IEST MAX DA	OX150A	1ST	73.71656	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
577	AerMod 1335	051614_1994	NO2	IEST MAX DA	INTER	1ST	389.29866	530720	5047716	214.1	214.1	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
578	AerMod 1335	051614_1994	NO2	IEST MAX DA	EAST	1ST	137.00112	530620	5047516	228.1	228.1	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
579	AerMod 1335	051614_1994	NO2	HEST MAX DA	BOILER	1ST	14.07109	523320	5054640	105.88	105.88	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
580	AerMod 1335	051614_1994	NO2	HEST MAX DA	THRM150A	1ST	28.22752	523560	5054980	119.01	119.01	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
581	AerMod 1335	051614_1994	NO2	IEST MAX DA	OX150A	1ST	27.53531	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
582	AerMod 1335	051614_1994	NO2	IEST MAX DA	INTER	1ST	137.00373	530620	5047516	228.1	228.1	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
583	AerMod 1335	51614_1994_O	OTHNO2	ANNUAL	EAST	1ST	2.18731	534000	5052000	106.8	106.8	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
584	AerMod 1335	51614_1994_O	OTHNO2	ANNUAL	BOILER	1ST	1.21918	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
585	AerMod 1335	51614_1994_O	OTHNO2	ANNUAL	THRM150A	1ST	2.15795	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
586	AerMod 1335	51614_1994_O	OTHNO2	ANNUAL	OX150A	1ST	1.16046	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
587	AerMod 1335	51614_1994_O	OTHNO2	ANNUAL	INTER	1ST	2.32881	523360	5054620	105.31	105.31	0	1 YEARS	millnkt_94-95.SFC	5	5	10538
588	AerMod 1335	51614_1994_O	OTHNO2	1-HR	EAST	1ST	389.29633	530720	5047716	214.1	214.1	0	94121605	millnkt_94-95.SFC	5	5	10538
589	AerMod 1335	51614_1994_O	OTHNO2	1-HR	EAST	2ND	301.5549	530620	5047616	226.5	226.5	0	94121605	millnkt_94-95.SFC	5	5	10538
590	AerMod 1335	51614_1994_O	OTHNO2	1-HR	BOILER	1ST	19.11501	523320	5054660	105.18	105.18	0	94101123	millnkt_94-95.SFC	5	5	10538
591	AerMod 1335	51614_1994_O	OTHNO2	1-HR	BOILER	2ND	18.23103	523300	5054640	106.79	106.79	0	94092123	millnkt_94-95.SFC	5	5	10538
592	AerMod 1335	51614_1994_O	OTHNO2	1-HR	THRM150A	1ST	73.71662	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	5	5	10538
593	AerMod 1335	51614_1994_O	OTHNO2	1-HR	THRM150A	2ND	57.23847	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	5	5	10538
594	AerMod 1335	51614_1994_O	OTHNO2	1-HR	OX150A	1ST	73.71656	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	5	5	10538
595	AerMod 1335	51614_1994_O	OTHNO2	1-HR	OX150A	2ND	57.23415	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	5	5	10538
596	AerMod 1335	51614_1994_O	OTHNO2	1-HR	INTER	1ST	389.29866	530720	5047716	214.1	214.1	0	94121605	millnkt_94-95.SFC	5	5	10538
597	AerMod 1335	51614_1994_O	OTHNO2	1-HR	INTER	2ND	301.55568	530620	5047616	226.5	226.5	0	94121605	millnkt_94-95.SFC	5	5	10538
598	AerMod 1335	51614_1994_O	OTHNO2	4-HR	EAST	1ST	155.75666	530720	5047616	219.3	224.2	0	94121608	millnkt_94-95.SFC	5	5	10538
599	AerMod 1335	51614_1994_O	OTHNO2	4-HR	EAST	2ND	95.70548	530620	5047616	226.5	226.5	0	95031204	millnkt_94-95.SFC	5	5	10538
600	AerMod 1335	51614_1994_O	OTHNO2	4-HR	BOILER	1ST	11.35544	523296.5	5054633.5	107.31	107.31	0	94092124	millnkt_94-95.SFC	5	5	10538
601	AerMod 1335	51614_1994_O	OTHNO2	4-HR	BOILER	2ND	10.57506	523310	5054621	107.5	107.5	0	94121324	millnkt_94-95.SFC	5	5	10538
602	AerMod 1335	51614_1994_O	OTHNO2	4-HR	THRM150A	1ST	31.17342	523100	5053500	183.8	183.8	0	94121324	millnkt_94-95.SFC	5	5	10538
603	AerMod 1335	51614_1994_O	OTHNO2	4-HR	THRM150A	2ND	25.04918	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	5	5	10538
604	AerMod 1335	51614_1994_O	OTHNO2	4-HR	OX150A	1ST	31.17314	523100	5053500	183.8	183.8	0	94121324	millnkt_94-95.SFC	5	5	10538
605	AerMod 1335	51614_1994_O	OTHNO2	4-HR	OX150A	2ND	25.0428	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	5	5	10538
606	AerMod 1335	51614_1994_O	OTHNO2	4-HR	INTER	1ST	155.76244	530720	5047616	219.3	224.2	0	94121608	millnkt_94-95.SFC	5	5	10538
607	AerMod 1335	51614_1994_O	OTHNO2	4-HR	INTER	2ND	95.73368	530620	5047616	226.5	226.5	0	95031204	millnkt_94-95.SFC	5	5	10538
608	AerMod 1335	51614_1994_O	OTHNO2	8-HR	EAST	1ST	112.23592	530720	5047616	219.3	224.2	0	94121608	millnkt_94-95.SFC	5	5	10538
609	AerMod 1335	51614_1994_O	OTHNO2	8-HR	EAST	2ND	52.54281	530520	5047716	221.2	221.2	0	94121524	millnkt_94-95.SFC	5	5	10538
610	AerMod 1335	51614_1994_O	OTHNO2	8-HR	BOILER	1ST	8.59394	523070.8	5054572.4	123.93	130.11	0	95012208	millnkt_94-95.SFC	5	5	10538
611	AerMod 1335	51614_1994_O	OTHNO2	8-HR	BOILER	2ND	8.54314	523070.8	5054572.4	123.93	130.11	0	95051308	millnkt_94-95.SFC	5	5	10538
612	AerMod 1335	51614_1994_O	OTHNO2	8-HR	THRM150A	1ST	26.76861	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	5	5	10538
613	AerMod 1335	51614_1994_O	OTHNO2	8-HR	THRM150A	2ND	20.74519	523350	5054650	105.11	105.11	0	94083016	millnkt_94-95.SFC	5	5	10538
614	AerMod 1335	51614_1994_O	OTHNO2	8-HR	OX150A	1ST	26.75715	523000	5053600	181.74	181.74	0	95011108	millnkt_94-95.SFC	5	5	10538
615	AerMod 1335	51614_1994_O	OTHNO2	8-HR	OX150A	2ND	17.11482	523350	5054650	105.11	105.11	0	94083016	millnkt_94-95.SFC	5	5	10538
616	AerMod 1335	51614_1994_O	OTHNO2	8-HR	INTER	1ST	112.23943	530720	5047616	219.3	224.2	0	94121608	millnkt_94-95.SFC	5	5	10538
617	AerMod 1335	51614_1994_O	OTHNO2	8-HR	INTER	2ND	52.56516	530520	5047716	221.2	221.2	0	94121524	millnkt_94-95.SFC	5	5	10538
618	AerMod 1335	51614_1994_O	OTHSO2	ANNUAL	BOILER	1ST	0.02756	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
619	AerMod 1335	51614_1994_O	OTHSO2	ANNUAL	THRM150A	1ST	0.22115	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
620	AerMod 1335	51614_1994_O	OTHSO2	ANNUAL	OX150A	1ST	0.20147	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	2	4	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
621	AerMod 13350	51614_1994_O	OTHSO2	ANNUAL	INTER	1ST	0.22115	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
622	AerMod 13350	51614_1994_O	OTHSO2	1-HR	BOILER	1ST	0.43217	523320	5054660	105.18	105.18	0	94101123	millnkt_94-95.SFC	2	4	10538
623	AerMod 13350	51614_1994_O	OTHSO2	1-HR	BOILER	2ND	0.41218	523300	5054640	106.79	106.79	0	94092123	millnkt_94-95.SFC	2	4	10538
624	AerMod 13350	51614_1994_O	OTHSO2	1-HR	THRM150A	1ST	12.79801	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
625	AerMod 13350	51614_1994_O	OTHSO2	1-HR	THRM150A	2ND	9.93658	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
626	AerMod 13350	51614_1994_O	OTHSO2	1-HR	OX150A	1ST	12.79801	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
627	AerMod 13350	51614_1994_O	OTHSO2	1-HR	OX150A	2ND	9.93648	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
628	AerMod 13350	51614_1994_O	OTHSO2	1-HR	INTER	1ST	12.79801	523100	5053500	183.8	183.8	0	94121322	millnkt_94-95.SFC	2	4	10538
629	AerMod 13350	51614_1994_O	OTHSO2	1-HR	INTER	2ND	9.93658	523000	5053600	181.74	181.74	0	94092123	millnkt_94-95.SFC	2	4	10538
630	AerMod 13350	51614_1994_O	OTHSO2	3-HR	BOILER	1ST	0.34231	523296.5	5054633.5	107.31	107.31	0	94092124	millnkt_94-95.SFC	2	4	10538
631	AerMod 13350	51614_1994_O	OTHSO2	3-HR	BOILER	2ND	0.31878	523310	5054621	107.5	107.5	0	94121324	millnkt_94-95.SFC	2	4	10538
632	AerMod 13350	51614_1994_O	OTHSO2	3-HR	THRM150A	1ST	8.85806	523000	5053600	181.74	181.74	0	95011106	millnkt_94-95.SFC	2	4	10538
633	AerMod 13350	51614_1994_O	OTHSO2	3-HR	THRM150A	2ND	5.49333	523100	5053600	182.28	182.28	0	95011106	millnkt_94-95.SFC	2	4	10538
634	AerMod 13350	51614_1994_O	OTHSO2	3-HR	OX150A	1ST	8.85804	523000	5053600	181.74	181.74	0	95011106	millnkt_94-95.SFC	2	4	10538
635	AerMod 13350	51614_1994_O	OTHSO2	3-HR	OX150A	2ND	5.49331	523100	5053600	182.28	182.28	0	95011106	millnkt_94-95.SFC	2	4	10538
636	AerMod 13350	51614_1994_O	OTHSO2	3-HR	INTER	1ST	8.85806	523000	5053600	181.74	181.74	0	95011106	millnkt_94-95.SFC	2	4	10538
637	AerMod 13350	51614_1994_O	OTHSO2	3-HR	INTER	2ND	5.49333	523100	5053600	182.28	182.28	0	95011106	millnkt_94-95.SFC	2	4	10538
638	AerMod 13350	51614_1994_O	OTHSO2	24-HR	BOILER	1ST	0.14996	523059.2	5054587.6	123.6	130.11	0	94110124	millnkt_94-95.SFC	2	4	10538
639	AerMod 13350	51614_1994_O	OTHSO2	24-HR	BOILER	2ND	0.1482	523059.2	5054587.6	123.6	130.11	0	95051224	millnkt_94-95.SFC	2	4	10538
640	AerMod 13350	51614_1994_O	OTHSO2	24-HR	THRM150A	1ST	2.40525	523120	5054480	123.81	141.53	0	95050824	millnkt_94-95.SFC	2	4	10538
641	AerMod 13350	51614_1994_O	OTHSO2	24-HR	THRM150A	2ND	2.1216	523350	5054650	105.11	105.11	0	95022524	millnkt_94-95.SFC	2	4	10538
642	AerMod 13350	51614_1994_O	OTHSO2	24-HR	OX150A	1ST	2.32858	523120	5054480	123.81	141.53	0	95050824	millnkt_94-95.SFC	2	4	10538
643	AerMod 13350	51614_1994_O	OTHSO2	24-HR	OX150A	2ND	2.05227	523350	5054650	105.11	105.11	0	95022524	millnkt_94-95.SFC	2	4	10538
644	AerMod 13350	51614_1994_O	OTHSO2	24-HR	INTER	1ST	2.40525	523120	5054480	123.81	141.53	0	95050824	millnkt_94-95.SFC	2	4	10538
645	AerMod 13350	51614_1994_O	OTHSO2	24-HR	INTER	2ND	2.1216	523350	5054650	105.11	105.11	0	95022524	millnkt_94-95.SFC	2	4	10538
646	AerMod 13350	051614_1994_	PM10	ANNUAL	BOILER	1ST	0.31593	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
647	AerMod 13350	051614_1994_	PM10	ANNUAL	PELCOOL	1ST	0.59916	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
648	AerMod 13350	051614_1994_	PM10	ANNUAL	OTHERPM	1ST	0.6089	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
649	AerMod 13350	051614_1994_	PM10	ANNUAL	THRM150A	1ST	1.63989	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
650	AerMod 13350	051614_1994_	PM10	ANNUAL	OX150A	1ST	0.19371	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
651	AerMod 13350	051614_1994_	PM10	ANNUAL	INTER	1ST	1.63989	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
652	AerMod 13350	051614_1994_	PM10	24-HR	BOILER	1ST	1.71876	523059.2	5054587.6	123.6	130.11	0	94110124	millnkt_94-95.SFC	7	6	10538
653	AerMod 13350	051614_1994_	PM10	24-HR	BOILER	2ND	1.69856	523059.2	5054587.6	123.6	130.11	0	95051224	millnkt_94-95.SFC	7	6	10538
654	AerMod 13350	051614_1994_	PM10	24-HR	BOILER	6TH	1.31699	523070.8	5054572.4	123.93	130.11	0	95030624	millnkt_94-95.SFC	7	6	10538
655	AerMod 13350	051614_1994_	PM10	24-HR	PELCOOL	1ST	3.0104	523350.5	5054583.5	107.83	107.83	0	94100524	millnkt_94-95.SFC	7	6	10538
656	AerMod 13350	051614_1994_	PM10	24-HR	PELCOOL	2ND	2.61549	523340	5054640	105.17	105.17	0	94083024	millnkt_94-95.SFC	7	6	10538
657	AerMod 13350	051614_1994_	PM10	24-HR	PELCOOL	6TH	2.23679	523350.5	5054583.5	107.83	107.83	0	95022624	millnkt_94-95.SFC	7	6	10538
658	AerMod 13350	051614_1994_	PM10	24-HR	OTHERPM	1ST	3.12825	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538
659	AerMod 13350	051614_1994_	PM10	24-HR	OTHERPM	2ND	2.84667	523300	5054700	105.07	105.07	0	94090824	millnkt_94-95.SFC	7	6	10538
660	AerMod 13350	051614_1994_	PM10	24-HR	OTHERPM	6TH	2.52107	523320	5054680	105.18	105.18	0	94101824	millnkt_94-95.SFC	7	6	10538
661	AerMod 13350	051614_1994_	PM10	24-HR	THRM150A	1ST	7.12201	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538
662	AerMod 13350	051614_1994_	PM10	24-HR	THRM150A	2ND	6.51794	523340	5054660	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
663	AerMod 13350	051614_1994_	PM10	24-HR	THRM150A	6TH	5.35839	523350.5	5054583.5	107.83	107.83	0	95012824	millnkt_94-95.SFC	7	6	10538
664	AerMod 13350	051614_1994_	PM10	24-HR	OX150A	1ST	2.23893	523120	5054480	123.81	141.53	0	95050824	millnkt_94-95.SFC	7	6	10538
665	AerMod 13350	051614_1994_	PM10	24-HR	OX150A	2ND	1.97326	523350	5054650	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
666	AerMod 13350	051614_1994_	PM10	24-HR	OX150A	6TH	1.63542	523350.5	5054583.5	107.83	107.83	0	94110724	millnkt_94-95.SFC	7	6	10538
667	AerMod 13350	051614_1994_	PM10	24-HR	INTER	1ST	7.12201	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538
668	AerMod 13350	051614_1994_	PM10	24-HR	INTER	2ND	6.51794	523340	5054660	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
669	AerMod 13350	051614_1994_	PM10	24-HR	INTER	6TH	5.35839	523350.5	5054583.5	107.83	107.83	0	95012824	millnkt_94-95.SFC	7	6	10538
670	AerMod 13350	h 051614_1994	PM2	ANNUAL	BOILER	1ST	0.31593	523330	5054670	105.12	105.12	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
671	AerMod 13350	h 051614_1994	PM2	ANNUAL	PELCOOL	1ST	0.29958	523340	5054620	106.15	106.15	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
672	AerMod 13350	h 051614_1994	PM2	ANNUAL	OTHERPM	1ST	0.6089	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
673	AerMod 13350	h 051614_1994	PM2	ANNUAL	THRM150A	1ST	1.35469	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
674	AerMod 13350	h 051614_1994	PM2	ANNUAL	OX150A	1ST	0.19371	523350.5	5054583.5	107.83	107.83	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
675	AerMod 13350	h 051614_1994	PM2	ANNUAL	INTER	1ST	1.35469	523340	5054640	105.17	105.17	0	1 YEARS	millnkt_94-95.SFC	7	6	10538
676	AerMod 13350	h 051614_1994	PM2	24-HR	BOILER	1ST	1.71876	523059.2	5054587.6	123.6	130.11	0	94110124	millnkt_94-95.SFC	7	6	10538
677	AerMod 13350	h 051614_1994	PM2	24-HR	BOILER	2ND	1.69856	523059.2	5054587.6	123.6	130.11	0	95051224	millnkt_94-95.SFC	7	6	10538
678	AerMod 13350	h 051614_1994	PM2	24-HR	PELCOOL	1ST	1.5052	523350.5	5054583.5	107.83	107.83	0	94100524	millnkt_94-95.SFC	7	6	10538
679	AerMod 13350	h 051614_1994	PM2	24-HR	PELCOOL	2ND	1.30775	523340	5054640	105.17	105.17	0	94083024	millnkt_94-95.SFC	7	6	10538
680	AerMod 13350	h 051614_1994	PM2	24-HR	OTHERPM	1ST	3.12825	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538
681	AerMod 13350	h 051614_1994	PM2	24-HR	OTHERPM	2ND	2.84667	523300	5054700	105.07	105.07	0	94090824	millnkt_94-95.SFC	7	6	10538
682	AerMod 13350	h 051614_1994	PM2	24-HR	THRM150A	1ST	5.76453	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538

TABLE D-2

CRITERIA POLLUTANT MODELING RESULTS

	Model	File	Pollutant	Average	Group	Rank	Conc/Dep	East (X)	North (Y)	Elev	Hill	Flag	Time	Met File	Sources	Groups	Receptors
683	AerMod 13350	h 051614_1994	PM2	24-HR	THRM150A	2ND	5.5082	523340	5054660	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
684	AerMod 13350	h 051614_1994	PM2	24-HR	OX150A	1ST	2.23893	523120	5054480	123.81	141.53	0	95050824	millnkt_94-95.SFC	7	6	10538
685	AerMod 13350	h 051614_1994	PM2	24-HR	OX150A	2ND	1.97326	523350	5054650	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
686	AerMod 13350	h 051614_1994	PM2	24-HR	INTER	1ST	5.76453	523340	5054660	105.11	105.11	0	94081124	millnkt_94-95.SFC	7	6	10538
687	AerMod 13350	h 051614_1994	PM2	24-HR	INTER	2ND	5.5082	523340	5054660	105.11	105.11	0	95022524	millnkt_94-95.SFC	7	6	10538
688	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	BOILER	1ST	0.43217	523320	5054660	105.18	105.18	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
689	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	THRM150A	1ST	12.79801	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
690	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	OX150A	1ST	12.79801	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
691	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	INTER	1ST	12.79801	523100	5053500	183.8	183.8	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
692	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	BOILER	1ST	0.36693	523320	5054640	105.88	105.88	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
693	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	THRM150A	1ST	6.73464	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
694	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	OX150A	1ST	6.7346	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_94-95.SFC	2	4	10538
695	AerMod 13350	h 051614_1994	SO2	HEST MAX DA	INTER	1ST	6.73464	523200	5053600	180.3	180.3	0	1 YEARS	millnkt_94-95.SFC	2	4	10538