

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**APPLICATION FOR AIR CONSTRUCTION PERMIT –**  
**TITLE V SOURCE**  
**FOR THE**  
**LOUISIANA-PACIFIC CORPORATION**  
**MARIANNA SAWMILL**  
**(FACILITY ID NO. 0630028)**  
**IN**  
**CYPRESS, JACKSON COUNTY, FLORIDA**

**May 23, 2000**

Prepared for:  
Geri Shoop  
Louisiana-Pacific Corporation  
8731 Steelfield Road  
Panama City Beach, Florida 32413

Prepared by:  
Tower Environmental Consulting, Inc.  
P.O. Box 131162  
The Woodlands, Texas 77393-1162  
(281) 296-2540

**RECEIVED**  
**MAY 23 2000**

**BUREAU OF AIR REGULATION**

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Florida Department of  
Environmental Protection

Memorandum

**To:** Andy Allen & Rick Bradburn  
NW District Air Program

**From:** Joseph Kahn, P.E.  
New Source Review Section

**Date:** June 22, 2000

**Re:** L-P Marianna Sawmill Expansion  
PSD Applicability

SENT VIA E-MAIL 6/22/00  
COPY TO GERI.SHOOP@LPCORP.COM

0630078  
0630078-003-AC

Per your request I have reviewed the project for PSD applicability. The applicant is proposing an expansion of its existing sawmill facility located in Cypress, Jackson County, including construction of two additional direct-fired (green sawdust fuel) lumber drying kilns. The facility's capacity will be expanded to 146,700 mbf/yr of kiln-dried lumber plus 7,335 mbf/yr of rough green lumber. Past actual production for 1998 and 1999 averaged 27,028 mbf/yr of kiln dried lumber. Each kiln will be direct-fired with 22,005 tons of green sawdust per year. The facility is an existing Title V facility with PTE of VOC greater than 100 TPY, but it is not an existing major facility for purposes of PSD because PTE of any criteria pollutant does not exceed 250 TPY. The applicant has proposed that this modification is not subject to PSD review because no criteria pollutant net emissions increase exceeds the PSD major facility threshold of 250 TPY.

Because the net emissions increase of VOC is so close to 250 TPY that there is little margin for error, and because it is difficult, if not impossible, to accurately perform testing to confirm VOC emissions from the kilns, I focused my review on the emissions estimates for VOC. I have also commented on the CO estimates because of the possibility that CO emissions may be greater than estimated. The applicant has proposed a net increase of 244.72 TPY of VOC, which is 98% of the major facility threshold. If the project was PSD major for VOC, it would also be subject to PSD for CO and PM<sub>10</sub> because emissions increases for those pollutants exceed the PSD significance criteria of 100 TPY and 15 TPY, respectively. If the project is not major for VOC, it will not be subject to PSD, assuming the other emissions have been estimated reasonably accurately. The resulting expanded facility will hereafter be an existing major facility for PSD, and future modifications must be evaluated using the significant emission rates of Table 62-212.400-2, in Rule 62-212, F.A.C.

I have the following comments regarding the emissions estimate for VOC.

It appears that the applicant has used a conservative factor (4.00 lb/mbf) to estimate emissions from the lumber drying operation itself. Although the applicant refers to NCASI as the source of the factor, no supporting information was provided. Note that NCASI Technical Bulletin 718 (July 1, 1996) provides for factors for southern yellow pine up to 3.32 lb/mbf, where the emissions are expressed as pounds of carbon (MW = 12), rather than as pounds of propane or some other standard. Because the applicant's information may be more current than the 1996 report, and because the lumber drying emissions represent most of the estimated potential emissions, supporting information for this factor should be provided. Supporting information may suggest that the emission estimate is sufficiently conservative to provide assurance that the modification is not subject to PSD.

The factor for emissions from the direct sawdust firing in the kilns, from AP-42 Table 1.6-3, of 0.22 lb/ton, is rated "C" and is for stoker boilers. Since it is the higher of the two available factors, and is for total organic compounds, it is the more conservative of the factors available in Section 1.6. However, as described in the introduction to AP-42, "Because ratings are subjective and only indirectly consider the inherent scatter among the data used to calculate factors, the ratings should be seen only as approximations." There is, therefore, a level of uncertainty associated with the factor. Further, the

applicant assumed credit for 50% reduction in emissions within the kiln itself. The basis for this is not documented. I am unclear why a kiln would have more VOC control efficiency than a stoker boiler. It is reasonable that we look elsewhere for other factors, at least to confirm the validity of the estimate. Other carbonaceous fuel boilers may provide useful information. Emission estimates for Perpetual Energy's last (1995) AOR show emissions of 0.22 lb/ton, while the 1999 AOR for Jefferson Power shows emissions of 1.5 lb/ton. The emission limit for wood firing at the Osceola and Okeelanta cogeneration facilities is 0.04 lb/mmBtu, which, assuming the same heat content of 4500 Btu/lb (wet) provided by Section 1.6 of AP-42, equates to 0.36 lb/ton. Applying this factor, with no assumed control, increases the future potential estimate by over 8 TPY, which would make the project subject to PSD by a margin of almost 3 tons per year.

Review of the hourly emission calculations shows a discrepancy with the annual numbers. Future hourly emissions for each kiln were estimated using the same factors described above, with a lumber throughput of 9.06 mbf/hr. This throughput may have been used to provide for a conservative estimate of maximum hourly emissions, but, using this throughput, the three kilns would have an annual throughput of 195,696 mbf/yr based on the proposed 7200 hours per year operation. This is significantly higher than the annual throughput of 146,700 mbf/yr used for the annual emission estimate. Reliance on this hourly throughput and 7200 operating hours to limit annual production would result in potential emissions far exceeding the PSD major source threshold, based on the applicant's emission factors. Any limitation on production should be expressed as a rolling 12 month total, and should be based on the annual numbers expressed in the permit application.

There is no supporting information provided to support the emission factor for VOC emissions from the planer mill shavings cyclone. Although the 2 TPY increase from this source is minor, supporting information should be provided.

No estimate of VOC emissions was attempted for fugitive emissions from the sawing and chipping operations. Presumably this is because these emissions, to the extent quantifiable, are exempt from consideration for PSD applicability pursuant to Rule 62-212.400(2)(b), F.A.C. Note that if the project was subject to PSD, preconstruction review requirements would apply to the fugitive emissions pursuant to Rule 62-212.400(2)(f), F.A.C.

As noted above, there are some issues with the VOC emissions estimation. I recommend that annual kiln-dried lumber production be limited on a rolling 12 month basis to limit potential VOC emissions. However, in the absence of supporting information from the applicant for the emission factors used, the limit should be revised downward somewhat from the production proposed by the applicant to provide a larger margin that the project is not subject to PSD because of VOC emissions.

Regarding the estimate for CO, there is a similar discrepancy between the hourly and annual estimates. The emission factor of 4.80 lb/ton is less than the AP-42 factor for waste wood stoker boilers of 13.6 lb/ton, although it is within the AP-42 reported range of 1.9 to 80 pounds per ton. The NCASI factor may be more applicable to these kilns, but supporting information should be provided for confirmation. Experience with test results of other carbonaceous fuel firing facilities shows that CO emissions can vary dramatically depending on moisture content, firing conditions, maintenance, and other factors. If emissions were even 8.0 lb/ton—at the low end of the AP-42 range—the modification would be subject to PSD because of CO emissions. To address this concern, CO emissions should be limited on an hourly basis and operating hours limited on a rolling 12 month total basis to limit annual CO emissions to the level proposed by the applicant. Emissions testing should be required annually to demonstrate compliance with the hourly emissions limit. Testing should occur for each kiln, with exhaust directed to the bypass stack. Record keeping of maintenance activities should also be required to document any changes that may affect CO emissions since the last test.

Please let me know if you have any questions.

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Louisiana-Pacific Corporation  
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## ABBREVIATIONS

acf.....	actual cubic feet
Btu.....	British thermal units
CO.....	carbon monoxide
HAP.....	hazardous air pollutants
lb/hr.....	pounds per hour
L-P.....	Louisiana-Pacific Corporation
Mbf.....	thousand board feet of finished lumber
MMbf.....	million board feet of finished lumber
MMBtu.....	million British thermal units
NCASI.....	National Council of the Paper Industry for Air and Stream Improvements
NO <sub>x</sub> .....	oxides of nitrogen
PM <sub>10</sub> .....	TSP less than 10 microns in size (inhalable particulate matter)
scf.....	standard cubic feet
SO <sub>2</sub> .....	sulfur dioxide
TSP.....	total suspended particulate matter
tn/yr.....	tons per year
tpy.....	tons per year
VOC.....	volatile organic compounds

## 1.0 INTRODUCTION

Louisiana-Pacific Corporation (L-P) is applying to the Florida Department of Environmental Protection (FDEP) for a permit to authorize construction at the Marianna Sawmill (Facility ID No. 0630028), an existing Title V source authorized by Permit No. 0630028-002-AV. The proposed permit will authorize an upgrade to the sawmill including modification of existing equipment and installation of new equipment. The most significant construction authorized by the permit will be the modification of the existing lumber drying kiln and the installation of two new lumber drying kilns. After the permit is issued, the sawmill will be authorized to produce 154,035 Mbf/yr of lumber (146,700 Mbf/yr of kiln-dried lumber plus 7,335 Mbf/yr of rough green lumber).

The sawmill is located on the south side of the L&N Railway, approximately 0.3 miles west of County Road 275 and 0.75 miles south of US Highway 90 in Cypress, Jackson County. An area map and a plot plan are provided in Appendix C of this document.

**Table 1-1 Actual and Proposed Emission Rates**

<b>Pollutant</b>	<b>Current Potential to Emit (tn/yr)</b>	<b>Actual Emission Rates (tn/yr)</b>	<b>Proposed Emission Rates (tn/yr)</b>	<b>Proposed Net Emission Increases (tn/yr)</b>
NO <sub>x</sub>	10.27	1.08	33.66	32.58
CO	93.08	5.06	158.43	153.37
VOC	155.42	54.66	299.38	244.72
PM <sub>10</sub>	97.77	29.32	159.45	130.13
SO <sub>2</sub>	0.51	0.08	2.49	2.41

Table 1-1 displays the current potential to emit (as documented in the 1996 Title V permit application), actual annual emissions from the sawmill for the previous two years (1998 and 1999) and the proposed annual emission rates after this permit is issued. Based on these emission levels, the sawmill is not an existing major stationary source under federal Prevention



of Significant Deterioration (PSD) regulations. Furthermore, the construction authorized by this permit will not constitute construction of a new major stationary source under PSD regulations. Therefore, this permit action is not subject to PSD review.

This document is organized into five sections. Section 2 of this document contains a process description for the sawmill. Section 3 of this document contains emission unit identifications for each emission unit addressed by this application. Section 4 of this document contains the FDEP Application for Air Permit – Title V Source (Form 62-210.900(1)). Section 5 of this document contains supplemental information requested in the Application for Air Permit.

## 2.0 PROPOSED PROCESS DESCRIPTION

### 2.1 SUMMARY OF PLANNED CHANGES

Louisiana-Pacific Corporation is proposing to modify existing emission units and construct new emission units at the Marianna Sawmill. The project will include a new optimized small log primary breakdown system, a new ring debarker, log deck modifications, two new green sawdust-fired lumber drying kilns, a new sorter system, a new stacker, a new optimized trimmer, a new board edger, a new optimized log processing system, converting the existing kiln to a green sawdust-fired system, a new pedestal log crane, and a new planer system with a new sorter and strapper. Also as part of the project the existing fuel silo and the associated wood/chip and shavings cyclone will be removed. The project will be completed in four phases and is expected to be complete in approximately four years. The following process description represents the operation of the sawmill upon completion of the upgrade. A process flow diagram is provided at the end of this section.

### 2.2 LOG YARD AND DEBARKING OPERATIONS

Whole logs are delivered to the sawmill via log transport trucks, unloaded by the new pedestal log crane, and stacked in the log yard. As needed, logs are loaded by the log crane onto the log infeed deck. The logs are conveyed through a series of circular saw blades at fixed intervals (cut-off saws) that cut the logs to the appropriate length.

The cut logs are conveyed to the debarker area where they are debarked by the new ring debarker. After debarking, the logs are conveyed to the log size sorter and then to the chipping saw. Log ends are sent to the lily pad chipper to be chipped, and the chips are routed to a vibrating screen to be separated. Fines passing through the screen are collected and routed to the sawdust bin. Chips that do not pass through the screen are conveyed to the chip truck bin. Bark from the debarker is mechanically conveyed to the bark hog. Hogged bark is mechanically conveyed to the bark bin and then loaded into bark trucks for shipment offsite. Bark and broken pieces from the log yard are gathered by front-end loaders and dumped onto the bark conveyor that feeds into the hog.

### **2.3 SAWMILL**

The debarked logs pass across the transfer deck and are conveyed to the chipping saw, which forms the cant. The cant (squared-off log) is then conveyed through the vertical saw assembly (VSA), which cuts the cant into dimensional lumber. The side boards from the chipping saw are conveyed to the edger which can square the sides to make a smaller board. Lumber from the VSA and edger moves to the landing table where boards of inferior quality are culled. Inferior boards that are large enough are sent back to the edger to be remanufactured into quality boards of smaller size if possible and then sent back to the landing table. The lumber is then conveyed through the end trimmers, the new sorter, and the new stacker. The green sawdust from the sawmill is captured and transported via "walking floor" trucks to be used as fuel in the dry kiln burners or sold. Chips from the chipping saws are conveyed to the sawmill chipper. The stacked lumber is moved to undried lumber storage or sold as rough green lumber.

### **2.4 LUMBER DRY KILNS**

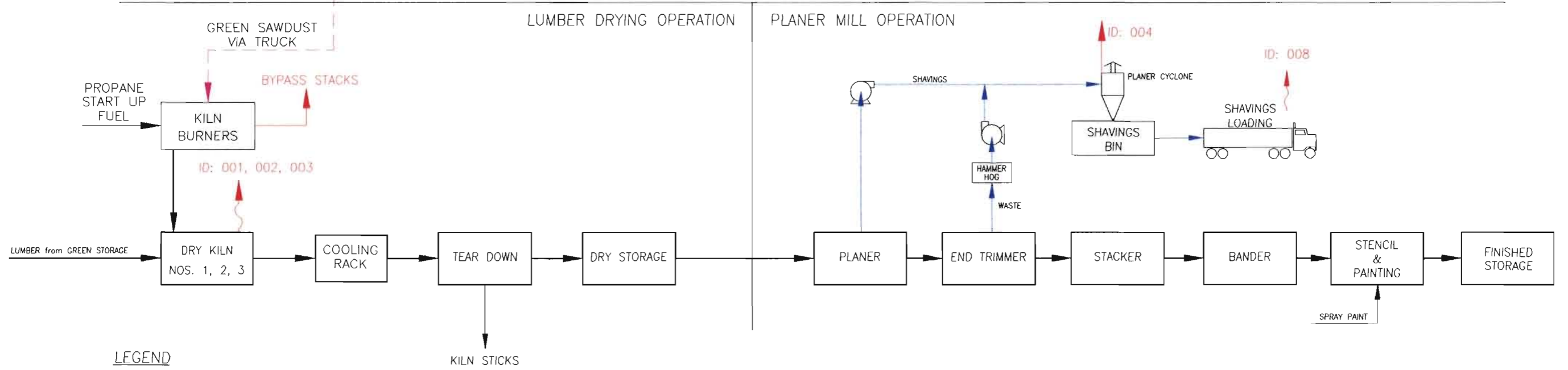
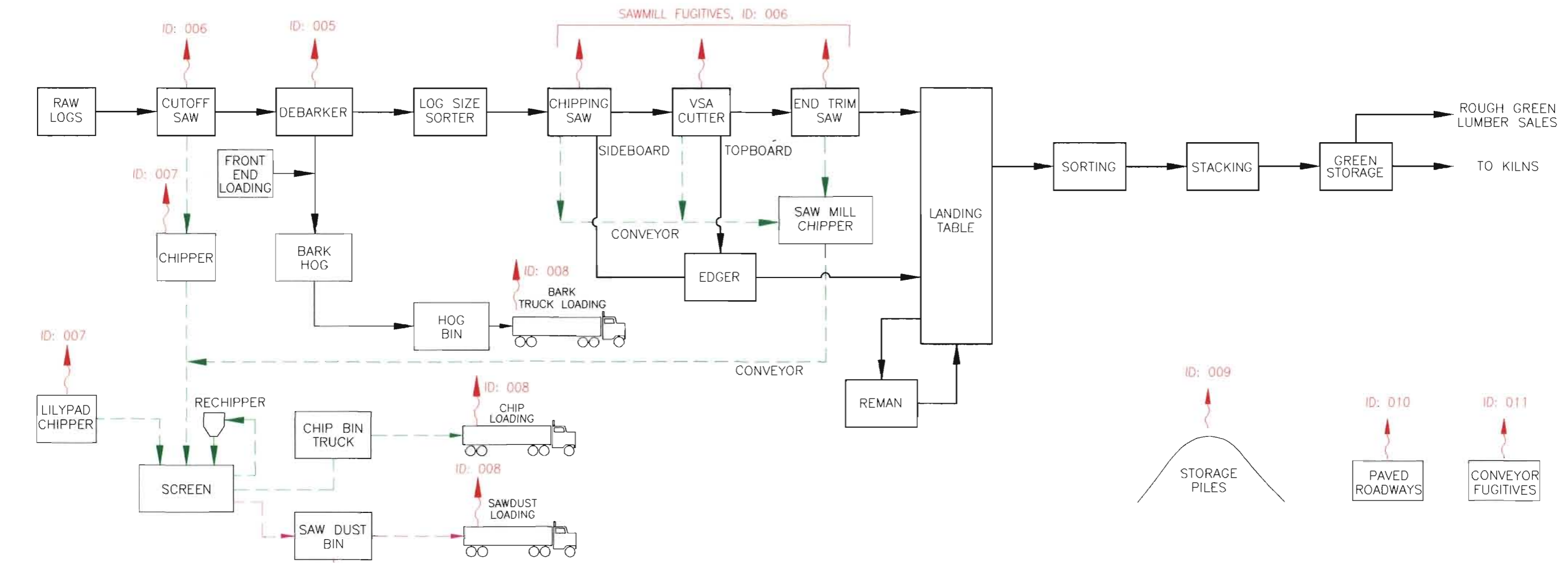
Lumber from undried lumber storage is then transported to one of the three dry kilns (one existing kiln plus two new kilns). Each of the 35 MMBtu/hr dry kilns is direct-fired with gasified green sawdust. The exhaust from combustion of the gasified green sawdust is used to dry the lumber. The water and VOC driven off the lumber exhausts through vents in the roof of the kilns. When there is no charge in a kiln, the exhaust from the kiln burner will be vented through a bypass stack. Each kiln has a maximum charge capacity 163 Mbf/charge with an average charge time of 24 hr/charge. After the lumber is dried, it is transported to dry lumber storage.

### **2.5 PLANER MILL**

Lumber from dry lumber storage is transported to the planer mill where it is sent through a high-speed planer. Shavings from the planer are pneumatically conveyed to the planer mill cyclone on the shavings truck bin. Overflow from the shavings truck bin falls onto a shavings pile to be loaded directly into a truck. The planed lumber is mechanically conveyed from the planer to a grader where it is separated based on quality. The lumber is then end-trimmed, stacked, stenciled with the L-P logo, and shipped offsite.

## 2.6 CHIPPING OPERATION

Chips from the sawmill chipper and lily pad chipper are mechanically conveyed to the chip screens and sorted with a shaker screen. Oversized chips are blown to the rechipper where they are rechipped and deposited back onto the chip screens. Chips that pass through the chip screens are conveyed to the chip truck bin. When the chip truck bin is full, chips bypass the bin and are dropped onto a chip pile and loaded onto a truck with a front-end loader. Fines passing through the chip screens are routed to the sawdust bin. Most of the sawdust is consumed by the green sawdust gasifiers.



**LEGEND**

- PROCESS/PRODUCT LINES
- - - SAWDUST/BARK/WOOD LINES
- - - CHIPS LINES
- - - SHAVINGS
- - - OTHER LINES
- ↖ STACK EMISSIONS
- ↗ FUGITIVE EMISSIONS

DATE	REVISIONS/NOTES	
3/8/00	ORIGINAL	
4/20/00		
		MARIANNA SAWMILL PROCESS FLOW DIAGRAM
SCALE: N.T.S.		FOR: TOWER ENVIRONMENTAL BY: MJ DRAFTING SERVICES

### 3.0 EMISSION CALCULATIONS

#### 3.1 EMISSION UNIT IDENTIFICATION

Table 3-1 provides a list of the emission units addressed by this application. Emission calculations are provided for all new and modified emission units, as well as emission units that will not be modified but will experience a change in operating parameters as a result of the sawmill upgrade. Trivial emission units as documented in the 1996 Title V permit application are not addressed in this application.

Table 3-1 Emission Unit Identification

Emission Unit ID Number	Title V ID Number	Emission Unit Name
001	001	Lumber Drying Kiln No. 1
002	---	Lumber Drying Kiln No. 2
003	---	Lumber Drying Kiln No. 3
004	005	Planermill Cyclone
005	---	Debarking Fugitives
006	---	Sawmill Fugitives
007	---	Chipping Fugitives
008	---	Truck Loading Fugitives
009	---	Storage Pile Fugitives
010	---	Paved Roadways Fugitives
011	---	Conveyor Loss Fugitives

#### 3.2 EMISSION CALCULATIONS

Annual emissions from each of the above emission units are calculated in spreadsheets provided in Appendix A of this document. Maximum hourly emissions from each of the above emission units are calculated in spreadsheets provided in Appendix B of this document. The bases of the

calculations are provided on the spreadsheets. Table 3-2 summarizes the net emissions increase expected from this project.

Table 3 - 2

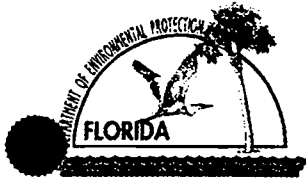
**PSD Applicability Table**  
**Louisiana-Pacific Corporation**  
**Marianna Sawmill**

Source	Source ID	PM10 (tpy)	Ref	VOC (tpy)	Ref	NOx (tpy)	Ref	CO (tpy)	Ref	SO2 (tpy)	Ref
<b>Current Annual Emissions</b>											
Lumber Drying Kiln	EU-001	3.61	1	54.06	13	1.08	18	5.06	21	0.08	24
Wood Chip Shavings Silo Cyclone	---	1.06	4	0.17	16	---		---		---	
Planermill Cyclone	EU-004	2.66	5	0.43	17	---		---		---	
Debarking Fugitives	EU-005	0.94	6	---		---		---		---	
Sawmill Fugitives	EU-006	17.11	7	---		---		---		---	
Chipping Fugitives	EU-007	1.03E-03	8	---		---		---		---	
Truck Loading Fugitives	EU-008	0.08	9	---		---		---		---	
Storage Pile Fugitives	EU-009	0.82	10	---		---		---		---	
Paved Roadways Fugitives	EU-010	2.74	11	---		---		---		---	
Conveyor Loss Fugitives	EU-011	0.30	12	---		---		---		---	
<b>Future Expected Annual Emissions</b>											
Lumber Drying Kiln	EU-001	6.53	1	99.01	13	11.22	18	52.81	21	0.83	24
<b>New Lumber Drying Kiln</b>	EU-002	6.53	2	99.01	14	11.22	19	52.81	22	0.83	25
<b>New Lumber Drying Kiln</b>	EU-003	6.53	3	99.01	15	11.22	20	52.81	23	0.83	26
Planermill Cyclone	EU-004	14.67	5	2.35	17	---		---		---	
Debarking Fugitives	EU-005	5.36	6	---		---		---		---	
Sawmill Fugitives	EU-006	97.50	7	---		---		---		---	
Chipping Fugitives	EU-007	5.87E-03	8	---		---		---		---	
Truck Loading Fugitives	EU-008	0.43	9	---		---		---		---	
Storage Pile Fugitives	EU-009	2.38	10	---		---		---		---	
Paved Roadways Fugitives	EU-010	17.81	11	---		---		---		---	
Conveyor Loss Fugitives	EU-011	1.71	12	---		---		---		---	
<b>Total Net Emissions</b>		130.13		244.72		32.58		153.37		2.41	
<b>PSD Major Source Significance Level</b>		250									
<b>Significant? Y or N</b>		N		N		N		N		N	



#### 4.0 APPLICATION FOR AIR CONSTRUCTION PERMIT – TITLE V SOURCE

A completed Application for Air Permit – Title V Source (DEP Form No. 62-210.900(1)) is provided on the following pages. Please note that Section III of the form is not required to be completed for emission units that qualify for a Generic Emissions Unit Exemption per 62-210.300(3)(b)(1). Therefore, Section III is not completed for Emission Unit ID Nos. 007, 008, 009, and 011.



# Department of Environmental Protection

0630028-003-AC

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

##### Identification of Facility

1. Facility Owner/Company Name: Louisiana-Pacific Corporation	
2. Site Name: Marianna Sawmill	
3. Facility Identification Number: 0630028 [ ] Unknown	
4. Facility Location: 0.73 mi. south of US Hwy 90, 0.3 mi. west of CR 275 Street Address or Other Locator: 6112 Old Spanish Trail, PO Box 98 City: Cypress County: Jackson Zip Code: 32432	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

##### Application Contact

1. Name and Title of Application Contact: Geri Shoop, Plant Environmental Manager	
2. Application Contact Mailing Address: 8731 Steelfield Road Organization/Firm: Louisiana-Pacific Corporation Street Address: 8731 Steelfield Road City: Panama City Beach State: Florida Zip Code: 32413	
3. Application Contact Telephone Numbers: Telephone: (850) 234-6692 Fax: (850) 235-1769	

##### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

Initial Title V air operation permit for an existing facility which is classified as a Title V source.

Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: \_\_\_\_\_

Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: \_\_\_\_\_

Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**


This Application for Air Permit is submitted to obtain: (Check one)

Air construction permit to construct or modify one or more emissions units.

Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: Dick Flugel, Lumber Operations Manager
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Louisiana-Pacific Corporation Street Address: 111 SW Fifth Avenue City: Portland State: Oregon Zip Code: 97204
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (800) 547-6331 Fax: (503) 821-5371
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [ ], if so) or the responsible official (check here [ X ], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  Signature  Date <u>5/15/00</u>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: Namon A. Nassef Registration Number: 22921
2. Professional Engineer Mailing Address: Organization/Firm: Nassef Engineering & Equipment Company, Inc. Street Address: 301 W. Nine Mile Road City: Pensacola State: Florida Zip Code: 32534-1819
3. Professional Engineer Telephone Numbers: Telephone: (850 ) 484-2700 Fax: (850 ) 484-0706

4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain a Title V source air operation permit (check here [  ], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [  ], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [  ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*[Handwritten Signature]*  
\_\_\_\_\_  
Signature

*5/18/00*  
\_\_\_\_\_  
Date

(seal)

\* Attach any exception to certification statement.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
001	Lumber Drying Kiln #1	AC1C	0
002	Lumber Drying Kiln #2	AC1C	0
003	Lumber Drying Kiln #3	AC1C	0
004	Planermill Cyclone	AC1E	0
005	Debarking Fugitives	AC1E	0
006	Sawmill Fugitives	AC1C	0
007	Chipping Fugitives	AC1F	0
008	Truck Loading Fugitives	AC1F	0
009	Storage Pile Fugitives	AC1F	0
010	Paved Roadway Fugitives	AC1E	0
011	Conveyor Loss Fugitives	AC1F	0

**Application Processing Fee**

Check one: [  ] Attached - Amount: \$ \_\_\_\_\_ [X] Not Applicable

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Louisiana-Pacific Corporation is proposing to modify existing emissions units and construct new emission units. The project will include a new optimized small log primary breakdown system, a new ring debarker, log deck modifications, two new green sawdust-fired kilns, a new sorter system, a new stacker, a new optimized trimmer, a new board edger, a new optimized log processing system, converting the existing kiln to a green sawdust-fired system, a new pedestal log crane, and a new planer system with a new sorter and strapper.

2. Projected or Actual Date of Commencement of Construction: 2<sup>nd</sup> Quarter of 2000

3. Projected Date of Completion of Construction: 4<sup>th</sup> Quarter of 2003

**Application Comment**

Construction will be completed in four phases over approximately four years.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: 16                                      East (km): 683.519                                      North (km): 3398.769			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 30/42/45                                      Longitude (DD/MM/SS): 85/05/15			
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 24	6. Facility SIC(s):  2421
7. Facility Comment (limit to 500 characters):  Lumber mill.			

#### Facility Contact

1. Name and Title of Facility Contact: Tony Henderson, Plant Environmental Coordinator		
2. Facility Contact Mailing Address: PO Box 98 Organization/Firm: Louisiana-Pacific Corporation Street Address: 6112 Old Spanish Trail City: Cypress                                      State: Florida                                      Zip Code: 34432		
3. Facility Contact Telephone Numbers: Telephone: (850) 592-8512                                      Fax: (850) 592-2460		



**Facility Regulatory Classifications**

**Check all that apply:**

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?	
5. [ ] Synthetic Minor Source of HAPs?	
6. [ ] One or More Emissions Units Subject to NSPS?	
7. [ ] One or More Emission Units Subject to NESHAP?	
8. [ ] Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	

**List of Applicable Regulations**

Title V Core List (see Appendix D)	

### B. FACILITY POLLUTANTS

**List of Pollutants Emitted**

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
NOX	B				
CO	A				
VOC	A				
SO2	B				
PM10	A				

## C. FACILITY SUPPLEMENTAL INFORMATION

### Supplemental Requirements

1.	Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>App. C</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2.	Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: <u>App. C</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3.	Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter: <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 5</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5.	Fugitive Emissions Identification: <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 3</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
6.	Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7.	Supplemental Requirements Comment:

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Lumber Drying Kiln #1</p>			
<p>4. Emissions Unit Identification Number: ID: 001</p>		<p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>	
<p>5. Emissions Unit Status Code: A</p>	<p>6. Initial Startup Date: April 1982</p>	<p>7. Emissions Unit Major Group SIC Code: 24</p>	<p>8. Acid Rain Unit? <input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters) Project will replace the existing 25 MMBtu/hr McConnell burner with a 35 MMBtu/hr burner capable of combusting gasified green sawdust.</p>			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):  
NA

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: To be determined		Model Number: To be determined
2. Generator Nameplate Rating: NA		MW
3. Incinerator Information: NA		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 35	MMBtu/hr
2. Maximum Incineration Rate: NA                      lb/hr	tons/day
3. Maximum Process or Throughput Rate: 48,900 Mbf/yr	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Value in Section 3 is a production rate-based limit.	

**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

62-296.410(2)(b)(1)	Carbonaceous Fuel Burning Equipment Visible Emissions
62-296.410(2)(b)(2)	Carbonaceous Fuel Burning Equipment Particulate Matter
62-296.410(3)	Carbonaceous Fuel Burning Equipment Test Methods and Procedures
62-296.703	Carbonaceous Fuel Burners



**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 001		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  The dry kiln emissions exhaust from 18 vents on top of the dry kiln. Each vent is approximately 12" x 12" in size. The vents may be in the open or closed position to keep a constant temperature in the dry kiln. The burner will also be equipped with a bypass stack to be used when there is not a charge in the kiln.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: R	6. Stack Height: 25 feet (top of kiln)	7. Exit Diameter: 18 vents, each approximately 12" by 12"	
8. Exit Temperature: <600 °F	9. Actual Volumetric Flow Rate: varies acfm	10. Water Vapor: varies %	
11. Maximum Dry Standard Flow Rate: varies dscfm		12. Nonstack Emission Point Height: 25 feet (top of kiln)	
13. Emission Point UTM Coordinates: Zone: 16                      East (km): 683.519                      North (km): 3398.769			
14. Emission Point Comment (limit to 200 characters):			

**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment  1  of  2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Green sawdust fuel fired in burner		
1. Source Classification Code (SCC): 1-03-009-02		3. SCC Units: Tons burned
4. Maximum Hourly Rate: 3.40	5. Maximum Annual Rate: 22,005	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 9.0
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment  2  of  2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Drying emissions from kiln		
2. Source Classification Code (SCC): 3-07-008-98		3. SCC Units: 1,000 Board Feet
4. Maximum Hourly Rate: 0 (see field 10)	5. Maximum Annual Rate: 48,900	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Kiln capacity is 163 Mbf/charge, and one charge lasts approximately 24 hours on average.		

**F. EMISSIONS UNIT POLLUTANTS  
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10			EL
VOC			EL
NOX			EL
CO			EL
SO2			EL

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION  
(Regulated Emissions Units -  
Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: 2.42 lb/hour                      6.53 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/>
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ 1 ] 3            _____ to _____ tons/year	
6. Emission Factor: 0.267 lb/Mbf Reference: NCASI Lumber Database	7. Emissions Method Code: 5
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

**Allowable Emissions** Allowable Emissions  1  of  1 .

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 0.2 lb/MMBtu	4. Equivalent Allowable Emissions: 7.00 lb/hour            30.66 tons/year
5. Method of Compliance (limit to 60 characters): Calculated emissions: (2.42 lb/hr) / (35 MMBtu/hr) = 0.069 lb/MMBtu	
6. Allowable Emissions Comment (Desc. Of Operating Method) (limit to 200 characters): Emission limit of 0.2 lb/MMBtu required by 62-296.410(2)(b)(2) and 62-296.703.	



**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**  
**(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram [X] Attached, Document ID: <u>Sec. 2</u> [ ] Not Applicable    [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: <u>Sec. 5</u> [ ] Not Applicable    [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: _____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment:

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part – Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II Nox Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase Nox Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Lumber Drying Kiln #2</p>			
<p>4. Emissions Unit Identification Number: ID:</p>			<p><input checked="" type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>
<p>5. Emissions Unit Status Code: C</p>	<p>6. Initial Startup Date: NA</p>	<p>7. Emissions Unit Major Group SIC Code: 24</p>	<p>8. Acid Rain Unit? <input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>New dry kiln with a 35 MMBtu/hr burner capable of combusting gasified green sawdust.</p>			



**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):  
NA

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: To be determined	Model Number: To be determined	
2. Generator Nameplate Rating: NA	MW	
3. Incinerator Information: NA		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 35	MMBtu/hr
2. Maximum Incineration Rate: NA                      lb/hr	tons/day
3. Maximum Process or Throughput Rate: 48,900 Mbf/yr	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Value in Section 3 is a production rate-based limit.	



**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 002		3. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  The dry kiln emissions exhaust from vents on top of the dry kiln. Each vent is approximately 12" x 12" in size. The vents may be in the open or closed position to keep a constant temperature in the dry kiln. The burner will also be equipped with a bypass stack to be used when there is not a charge in the kiln.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
2. Discharge Type Code: R	6. Stack Height: To be determined	7. Exit Diameter: To be determined	
8. Exit Temperature: <600 °F	9. Actual Volumetric Flow Rate: varies acfm	10. Water Vapor: varies %	
11. Maximum Dry Standard Flow Rate: varies dscfm		12. Nonstack Emission Point Height: To be determined	
13. Emission Point UTM Coordinates: Zone: 16                      East (km):                      North (km):			
14. Emission Point Comment (limit to 200 characters):  Exact location to be determined.			

**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment  1  of  2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Green sawdust fuel fired in burner		
2. Source Classification Code (SCC): 1-03-009-02		3. SCC Units: Tons burned
4. Maximum Hourly Rate: 3.40	5. Maximum Annual Rate: 22,005	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 9.0
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment  2  of  2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Drying emissions from kiln		
2. Source Classification Code (SCC): 3-07-008-98		3. SCC Units: 1,000 Board Feet
4. Maximum Hourly Rate: 0 (see field 10)	5. Maximum Annual Rate: 48,900	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Kiln capacity is 163 Mbf/charge, and one charge lasts approximately 24 hours on average.		



**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
**(Regulated Emissions Units -**  
**Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: 2.42 lb/hour                      6.53 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> [X]
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ 1 ] 3            _____ to _____ tons/year	
6. Emission Factor: 0.267 lb/Mbf Reference: NCASI Lumber Database	7. Emissions Method Code: 5
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

**Allowable Emissions** Allowable Emissions  1  of  1 .

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 0.2 lb/MMBtu	4. Equivalent Allowable Emissions: 7.00 lb/hour            30.66 tons/year
5. Method of Compliance (limit to 60 characters): Calculated emissions: (2.42 lb/hr) / (35 MMBtu/hr) = 0.069 lb/MMBtu	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Emission limit of 0.2 lb/MMBtu required by 62-296.410(2)(b)(2) and 62-296.703.	

**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1.

1. Visible Emissions Subtype: VE30	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 30 % Exceptional Conditions: 40 % Maximum Period of Excess Opacity Allowed: 2 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 30% required by 62-296.410(2)(b)(1) and 62-296.703.	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	



**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**  
**(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram [X] Attached, Document ID: <u>Sec. 2</u> [ ] Not Applicable    [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: <u>Sec. 5</u> [ ] Not Applicable    [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID: _____ [ ] Previously submitted, Date: _____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X] Not Applicable    [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: _____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment:          

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Lumber Drying Kiln #3</p>			
<p>4. Emissions Unit Identification Number:</p> <p>ID:</p>		<p><input checked="" type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>	
<p>5. Emissions Unit Status Code:</p> <p>C</p>	<p>6. Initial Startup Date:</p> <p>NA</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p>24</p>	<p>8. Acid Rain Unit?</p> <p><input type="checkbox"/></p>
<p>10. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>New dry kiln with a 35 MMBtu/hr burner capable of combusting gasified green sawdust.</p>			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):  
NA

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: To be determined	Model Number: To be determined	
2. Generator Nameplate Rating: NA	MW	
3. Incinerator Information: NA		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: 35	MMBtu/hr
2. Maximum Incineration Rate: NA lb/hr	tons/day
3. Maximum Process or Throughput Rate: 48,900 Mbf/yr	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Value in Section 3 is a production rate-based limit.	

**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

62-296.410(2)(b)(1)	Carbonaceous Fuel Burning Equipment Visible Emissions
62-296.410(2)(b)(2)	Carbonaceous Fuel Burning Equipment Particulate Matter
62-296.410(3)	Carbonaceous Fuel Burning Equipment Test Methods and Procedures
62-296.703	Carbonaceous Fuel Burners

**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 003		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  The dry kiln emissions exhaust from vents on top of the dry kiln. Each vent is approximately 12" x 12" in size. The vents may be in the open or closed position to keep a constant temperature in the dry kiln. The burner will also be equipped with a bypass stack to be used when there is not a charge in the kiln.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
3. Discharge Type Code: R	6. Stack Height: To be determined	7. Exit Diameter: To be determined	
8. Exit Temperature: <600 °F	9. Actual Volumetric Flow Rate: varies acfm	10. Water Vapor: varies %	
11. Maximum Dry Standard Flow Rate: varies dscfm		12. Nonstack Emission Point Height: To be determined	
13. Emission Point UTM Coordinates: Zone: 16                      East (km):                      North (km):			
14. Emission Point Comment (limit to 200 characters):  Exact location to be determined.			

**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Green sawdust fuel fired in burner		
2. Source Classification Code (SCC): 1-03-009-02		3. SCC Units: Tons burned
4. Maximum Hourly Rate: 3.40	5. Maximum Annual Rate: 22,005	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 9.0
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Drying emissions from kiln		
2. Source Classification Code (SCC): 3-07-008-98		3. SCC Units: 1,000 Board Feet
4. Maximum Hourly Rate: 0 (see field 10)	5. Maximum Annual Rate: 48,900	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Kiln capacity is 163 Mbf/charge, and one charge lasts approximately 24 hours on average.		



**F. EMISSIONS UNIT POLLUTANTS**  
**(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10			EL
VOC			EL
NOX			EL
CO			EL
SO2			EL

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
**(Regulated Emissions Units -**  
**Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: 2.42 lb/hour                      6.53 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/>
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ ] 3            _____ to _____ tons/year	
6. Emission Factor: 0.267 lb/Mbf Reference: NCASI Lumber Database	7. Emissions Method Code: 5
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

**Allowable Emissions** Allowable Emissions  1  of  1 .

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 0.2 lb/MMBtu	4. Equivalent Allowable Emissions: 7.00 lb/hour            30.66 tons/year
5. Method of Compliance (limit to 60 characters): Calculated emissions: (2.42 lb/hr) / (35 MMBtu/hr) = 0.069 lb/MMBtu	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Emission limit of 0.2 lb/MMBtu required by 62-296.410(2)(b)(2) and 62-296.703.	

**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1.

1. Visible Emissions Subtype: VE30	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 30 % Exceptional Conditions: 40 % Maximum Period of Excess Opacity Allowed: 2 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 30% required by 62-296.410(2)(b)(1) and 62-296.703.	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 5</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:          

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Planermill Cyclone</p>			
<p>4. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No ID</span></p> <p>ID: 004 <span style="float: right;"><input type="checkbox"/> ID Unknown</span></p>			
<p>5. Emissions Unit Status Code:</p> <p style="text-align: center;">A</p>	<p>6. Initial Startup Date:</p> <p style="text-align: center;">1982</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p style="text-align: center;">24</p>	<p>8. Acid Rain Unit?</p> <p style="text-align: center;"><input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p>    			

**Emissions Unit Control Equipment**

1 Control Equipment/Method Description (Limit to 200 characters per device or method): NA
2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit: Manufacturer: Baxley Blowpipe	Model Number: NA
2. Generator Nameplate Rating: NA	MW
3. Incinerator Information: NA	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: NA	MMBtu/hr
2. Maximum Incineration Rate: NA lb/hr	tons/day
3. Maximum Process or Throughput Rate: 5.44 tons/hr Shavings	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	



**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

62-296.320(4)(b)	General Particulate Emission Limiting Standards General Visible Emissions Standard

**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 004		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  NA			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: W	6. Stack Height: 70 feet	7. Exit Diameter: 3.08 feet	
8. Exit Temperature: Ambient °F	9. Actual Volumetric Flow Rate: 35,000 acfm	10. Water Vapor: 5 %	
11. Maximum Dry Standard Flow Rate: 33,250 dscfm		12. Nonstack Emission Point Height: NA	
13. Emission Point UTM Coordinates: Zone: 16                      East (km): 683.451                      North (km): 3398.822			
14. Emission Point Comment (limit to 200 characters):			

**E. SEGMENT (PROCESS/FUEL) INFORMATION  
(All Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Planermill cyclone		
2. Source Classification Code (SCC): 3-07-008-08		3. SCC Units: Hours operated
4. Maximum Hourly Rate: 1	5. Maximum Annual Rate: 8,760	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		



**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
**(Regulated Emissions Units -**  
**Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 5.44 lb/hour                      14.67 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/>	
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ ] 3            _____ to _____ tons/year			
6. Emission Factor: NA Reference: Engineering Estimate		7. Emissions Method Code: 3	
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions  1  of  1 .

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour                      tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1.

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 20% required by 62-296.320(4)(b)(1).	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable



**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one) <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Regulated or Unregulated Emissions Unit? (Check one) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Debarking Fugitives			
4. Emissions Unit Identification Number: <span style="float: right;">[X] No ID</span> ID: <span style="float: right;">[ ] ID Unknown</span>			
5. Emissions Unit Status Code: C	6. Initial Startup Date: NA	7. Emissions Unit Major Group SIC Code: 24	8. Acid Rain Unit? [ ]
9. Emissions Unit Comment: (Limit to 500 Characters) New ring debarker will replace existing debarker.			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):  
NA

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: NA	Model Number: NA	
2. Generator Nameplate Rating: NA	MW	
3. Incinerator Information: NA		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: NA	MMBtu/hr
2. Maximum Incineration Rate: NA                      lb/hr	tons/day
3. Maximum Process or Throughput Rate: 316.50 tons/hr Logs	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	



**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 005		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  NA			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: Ambient °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: To be determined	
13. Emission Point UTM Coordinates: Zone: 16                      East (km):                      North (km):			
14. Emission Point Comment (limit to 200 characters):			

**1. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Debarking Fugitives		
2. Source Classification Code (SCC): 3-07-008-01		2. SCC Units: Tons logs processed
3. Maximum Hourly Rate: 316.50	5. Maximum Annual Rate: 975,042	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS**  
**(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10			EL

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
**(Regulated Emissions Units -**  
**Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: 3.48 lb/hour                      5.36 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/>
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ ] 3            _____ to _____ tons/year	
6. Emission Factor: 0.011 lb/tn Reference: EPA FIRE Database	7. Emissions Method Code: 3
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

**Allowable Emissions** Allowable Emissions  1  of  1 .

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation  1  of  1 .

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 20% required by 62-320(4)(b)(1).	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:          

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Sawmill Fugitives</p>			
<p>4. Emissions Unit Identification Number: <span style="float: right;"><input checked="" type="checkbox"/> No ID</span></p> <p>ID: <span style="float: right;"><input type="checkbox"/> ID Unknown</span></p>			
<p>5. Emissions Unit Status Code:</p> <p style="text-align: center;">A</p>	<p>6. Initial Startup Date:</p> <p style="text-align: center;">1982</p>	<p>7. Emissions Unit Major Group SIC Code:</p> <p style="text-align: center;">24</p>	<p>8. Acid Rain Unit?</p> <p style="text-align: center;"><input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>Sawmill will experience increased throughput as a result of the upgrade project.</p>			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method): NA
2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit: Manufacturer: NA	Model Number: NA
2. Generator Nameplate Rating: NA	MW
3. Incinerator Information: NA	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: NA	MMBtu/hr
2. Maximum Incineration Rate: NA                      lb/hr	tons/day
3. Maximum Process or Throughput Rate: 316.50 tons/hr Logs	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	

**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

62-296.320(4)(b)	General Particulate Emission Limiting Standards General Visible Emissions Standard

**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 006		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  This emission point represents fugitive emissions from the sawmill.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: Ambient °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 10 feet	
13. Emission Point UTM Coordinates: Zone: 16                      East (km):                      North (km):			
14. Emission Point Comment (limit to 200 characters):			



**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Sawmill Fugitives		
2. Source Classification Code (SCC): 3-07-008-02		3. SCC Units: Tons logs processed
4. Maximum Hourly Rate: 316.50	5. Maximum Annual Rate: 975,042	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS  
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10			EL

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION  
(Regulated Emissions Units -  
Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: NA	
3. Potential Emissions: 63.30 lb/hour                      97.50 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/>	
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ 1 ] 3            _____ to _____ tons/year			
6. Emission Factor: 0.20 lb/tn Reference: EPA FIRE Database		7. Emissions Method Code: 3	
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions 1 of 1.

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour            tons/year	
5. Method of Compliance (limit to 60 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):			

**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1.

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
14. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 20% required by 62-320(4)(b)(1).	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in This Section: (Check one) <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Regulated or Unregulated Emissions Unit? (Check one) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Paved Roadways			
4. Emissions Unit Identification Number: <span style="float: right;">[X] No ID</span> ID: <span style="float: right;">[ ] ID Unknown</span>			
5. Emissions Unit Status Code: A	6. Initial Startup Date: 1982	7. Emissions Unit Major Group SIC Code: 24	8. Acid Rain Unit? [ ]
9. Emissions Unit Comment: (Limit to 500 Characters)			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):  
 NA

2. Control Device or Method Code(s): NA

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: NA		Model Number: NA
2. Generator Nameplate Rating: NA		MW
3. Incinerator Information: NA		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F



**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: NA	MMBtu/hr
2. Maximum Incineration Rate: NA                      lb/hr	tons/day
3. Maximum Process or Throughput Rate: See Calculations in Appendix A	
4. Maximum Production Rate: NA	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	

**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

62-296.320(4)(b)	General Particulate Emission Limiting Standards General Visible Emissions Standard
62-296.320(4)(c)	General Particulate Emission Limiting Standards Unconfined Emissions of Particulate Matter

**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? 010		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: F	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: Ambient °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 0 feet	
13. Emission Point UTM Coordinates: Zone: 16                      East (km):                      North (km):			
14. Emission Point Comment (limit to 200 characters):			

**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Paved Roadways		
2. Source Classification Code (SCC): 3-07-888-01		3. SCC Units: Vehicle miles traveled
4. Maximum Hourly Rate: NA	5. Maximum Annual Rate: NA	6. Estimated Annual Activity Factor: 28,960
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS**  
**(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10			NS

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
(Regulated Emissions Units -  
Emissions-Limited and Preconstruction Review Pollutants Only)

**Potential/Fugitive Emissions**

1. Pollutant Emitted: PM10	2. Total Percent Efficiency of Control: NA
3. Potential Emissions: 1.38 lb/hour                                      17.81 tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1              [ ] 2              [ ] 3                      to                      tons/year	
6. Emission Factor: See emission calculations in Section 3. Reference: AP-42 Section 13.2.	7. Emissions Method Code: 3
8. Calculation of Emissions (limit to 600 characters):  See emission calculations in Section 3.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):  	

**Allowable Emissions** Allowable Emissions 1 of 1.

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:  lb/hour                                      tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

**H. VISIBLE EMISSIONS INFORMATION**  
**(Only Regulated Emissions Units Subject to a VE Limitation)**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1.

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Paved roads will be cleaned and maintained periodically.	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions limit of 20% required by 62-296.320(4)(b)(1).	

**I. CONTINUOUS MONITOR INFORMATION**  
**(Only Regulated Emissions Units Subject to Continuous Monitoring)**

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code: NA	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Sec. 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:



**Additional Supplemental Requirements for Title V Air Operation Permit Applications**

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

## 5.0 SUPPLEMENTAL INFORMATION

### 5.1 PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER (ITEM II.C.4)

Unconfined particulate matter potentially may be emitted by several types of emission units at the sawmill. Regulation 62-296.320(4)(c)(1) states:

No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.

Each potential source of unconfined particulate matter emissions and the precautions taken to prevent such emissions is addressed below.

#### **Roadways**

The only unpaved roadways at the sawmill are the employee parking lot and the forklift parking area. The road that circles the mill is paved, and vehicle speed is kept to five miles per hour. Combined, these measures represent reasonable precautions to prevent unconfined particulate matter emissions.

#### **Storage Piles**

The various storage piles at the sawmill are potential sources of unconfined particulate matter emissions. Emissions from the storage piles are minimized by sweeping around the piles and by removing the material periodically. Storage bin overflow piles are picked up and put in the bin as soon as the bin is capable of holding the material. Sawdust and chip piles not associated with a bin are loaded into trucks and shipped offsite.

#### **Material Transfer**

Conveyor loss is minimized by partially or fully enclosing the conveyors. Loss during truck loading is minimized by utilizing reduced free-fall drops and/or partial enclosures. Additionally, the majority of

material transferred is green (wet), which further reduces particulate matter emissions during material transfer.

## **5.2 FUEL ANALYSIS OR SPECIFICATION (ITEM III.J.2)**

The burners for the dry kilns will be fired on gasified green sawdust. The gasification system significantly reduces particulate matter and ash generated by the combustion process. Green sawdust has a heat content of approximately 4,500 Btu/lb.

**APPENDIX A**

**ANNUAL EMISSION CALCULATIONS**

## Annual Emission Calculations

### General Plant Data

	<b>Current</b>	<b>Reference</b>
Total Annual Kiln Production	27,028 Mbf/yr	Average of 1998 and 1999 production
Total Log Weight Processed	171,069 tons/yr	Average 1998 and 1999 usage rate
Total Chips Production	68,587 tons/yr	Average of 1998 and 1999 production
Total Shavings Production	5,323 tons/yr	Average of 1998 and 1999 production
Total Bark Production	16,816 tons/yr	Average of 1998 and 1999 production
Green Sawdust Produced	16,772 tons/yr	Average of 1998 and 1999 production
Total Lumber Produced	63,571 tons/yr	Based on total logs minus sum of by-products
Kiln Fuel Usage	2,110 tons/yr	Average 1998 and 1999 usage rate
Sawmill Hours of Operation	2,034 hrs/yr	Average of 1998 and 1999 hours of operation for the sawmill
Planermill Hours of Operation	1,825 hrs/yr	Average of 1998 and 1999 hours of operation for the planermill

## Annual Emission Calculations

### General Plant Data

	Future	Reference
Total Annual Production	154,035 Mbf/yr	Based on the sum of the maximum kiln charges and 5% rough green sales
Log Weight Conversion Factor	6.33 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Log Weight Processed	975,042 tons/yr	
Chips Conversion Factor	2.54 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Chips Production	391,249 tons/yr	
Shavings Conversion Factor	0.20 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Shavings Production	29,340 tons/yr	
Bark Conversion Factor	0.62 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Bark Production	95,502 tons/yr	
Green Sawdust Production Factor	0.62 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Green Sawdust Produced	95,502 tons/yr	
Total Lumber Produced	363,449 tons/yr	Based on log weight minus the sum of the weight of the byproducts
Kiln Fuel Usage	66,015 tons/yr	
Hours of Operation	7,200 hrs/yr	
Kiln Capacity		
Lumber Drying Kiln No. 1 (existing)	48,900 Mbf/yr	
Lumber Drying Kiln No. 2 (new)	48,900 Mbf/yr	
Lumber Drying Kiln No. 3 (new)	48,900 Mbf/yr	

# Annual Emission Calculations

## PM10 Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 1 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Lumber Throughput	27,028 Mbf/yr	Average kiln production for 1998 & 1999
Lumber Throughput	48,900 Mbf/yr	Future expected kiln production

Calculation:

Present

$$\frac{0.267 \text{ lb}}{\text{Mbf}} * \frac{27,028 \text{ Mbf}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{3.61 \text{ tons}}{\text{yr}}$$

Future

$$\frac{0.267 \text{ lb}}{\text{Mbf}} * \frac{48,900 \text{ Mbf}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{6.53 \text{ tons}}{\text{yr}}$$

### EMISSION POINT NO. 2 (EU-002)

#### 2 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Lumber Throughput	48,900 Mbf/yr	Maximum annual fuel usage

Calculation:

Future

$$\frac{0.267 \text{ lb}}{\text{Mbf}} * \frac{48,900 \text{ Mbf}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{6.53 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### EMISSION POINT NO. 3 (EU-003)

#### 3 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Lumber Throughput	48,900 Mbf/yr	Maximum annual fuel usage

Calculation:

Future

$$\begin{array}{r}
 \underline{0.267 \text{ lb}} \\
 \text{Mbf}
 \end{array}
 *
 \begin{array}{r}
 \underline{48,900 \text{ Mbf}} \\
 \text{yr}
 \end{array}
 *
 \begin{array}{r}
 \underline{1 \text{ Ton}} \\
 2,000 \text{ lb}
 \end{array}
 =
 \begin{array}{r}
 \underline{6.53 \text{ tons}} \\
 \text{yr}
 \end{array}$$

#### 4 WOOD CHIP SHAVINGS SILO CYCLONE(EMISSION POINT WILL BE REMOVED AS PART OF PROJECT)

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Shavings Throughput	2,110 tons/yr	Average of 1998 and 1999 total cyclone throughput
Control Efficiency	95%	Engineering estimate for control efficiency (total material)
PM10 Fraction	1%	Engineering estimate for fraction of PM10 in total material

Calculation:

Present

$$\begin{array}{r}
 \underline{2,110 \text{ tons}} \\
 \text{yr}
 \end{array}
 *
 \begin{array}{r}
 5\% \\
 \text{(percent emitted)}
 \end{array}
 *
 1\%
 =
 \begin{array}{r}
 \underline{1.06 \text{ tons}} \\
 \text{yr}
 \end{array}$$



## Annual Emission Calculations

### EMISSION POINT NO. 4 (EU-004)

#### 5 PLANERMILL CYCLONE

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Shavings Production	5,323 tons/yr	Average shavings production from 1998 and 1999
Shavings Production	29,340 tons/yr	Future expected shavings production
Control Efficiency	95%	Engineering estimate for control efficiency (total material)
PM10 Fraction	1%	Engineering estimate for fraction of PM10 in total material

Calculation:

Present

$$\frac{5,323 \text{ tons}}{\text{yr}} * 5\% * 1\% = \underline{2.66 \text{ tons}} \text{ yr}$$

(percent emitted)

Future

$$\frac{29,340 \text{ tons}}{\text{yr}} * 5\% * 1\% = \underline{14.67 \text{ tons}} \text{ yr}$$

(percent emitted)

### EMISSION SOURCE NO. 5 (EU-005)

#### 6 DEBARKING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.011 lb/ton	EPA's FIRE database (SCC: 30700801 - PM10 Filterable)
Log Usage	171,069 tons/yr	Average log weight for 1998 & 1999
Log Usage	975,042 tons/yr	Future expected log weight

Calculation:

Present

$$\frac{0.011 \text{ lb}}{\text{ton}} * \frac{171,069 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{0.94 \text{ tons}} \text{ yr}$$

Future

$$\frac{0.011 \text{ lb}}{\text{ton}} * \frac{975,042 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{5.36 \text{ tons}} \text{ yr}$$

## Annual Emission Calculations

### EMISSION SOURCE NO. 6 (EU-006)

#### 7 SAWMILL FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.20 lb/ton	EPA's FIRE database (SCC: 30700802 - PM10 Filterable)
Log Usage	171,069 tons/yr	Average log weight for 1998 & 1999
Log Usage	975,042 tons/yr	Future expected log weight

Calculation:

Present

$$\frac{0.20 \text{ lb}}{\text{ton}} * \frac{171,069 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{17.11 \text{ tons}}{\text{yr}}$$

Future

$$\frac{0.20 \text{ lb}}{\text{ton}} * \frac{975,042 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{97.50 \text{ tons}}{\text{yr}}$$

### EMISSION SOURCE NO. 7 (EU-007)

#### 8 CHIPPING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	3.00E-05 lb/ton	TNRCC Technical Reference for Wood and Chip Handling in Kraft Pulp and Paper Mills
Chips Production	68,587 tons/yr	Average chip production for 1998 & 1999
Chips Production	391,249 tons/yr	Future expected chip production

Calculation:

Present

$$\frac{3.00E-05 \text{ lb}}{\text{ton}} * \frac{68,587 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{1.03E-03 \text{ tons}}{\text{yr}}$$

Future

$$\frac{3.00E-05 \text{ lb}}{\text{ton}} * \frac{391,249 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{5.87E-03 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### EMISSION SOURCE NO. 8 (EU-008)

#### 9 TRUCK LOADING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Bark Production	16,816 tons/yr	Average bark production for 1998 & 1999
Bark Production	95,502 tons/yr	Future expected bark production
Chips Production	68,587 tons/yr	Average chips production for 1998 & 1999
Chips Production	391,249 tons/yr	Future expected chips production
Shavings Production	5,323 tons/yr	Average shavings production for 1998 & 1999
Shavings Production	29,340 tons/yr	Future expected shavings production
Sawdust Production	16,772 tons/yr	Average sawdust production for 1998 & 1999
Sawdust Production	95,502 tons/yr	Future expected sawdust production

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database section 13.2-4. Equation is  $E = k (0.0032) ((U/5)^{1.3}/(M/2)^{1.4})$

Where:

k = particle size multiplier (AP-42 Section 13.2-4)	0.74
U = Mean Wind Speed (EPA's Tanks Database for Pennsacola)	8.55 mph
M = Moisture Content (max. for equation is 4.8%)	4.8%
E = Emission Factor (lb/ton)	1.40E-03 lb/ton

Present

$$\frac{1.40E-03 \text{ lb}}{\text{ton}} * \frac{107,498 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{\underline{0.08 \text{ tons}}}$$

Future

$$\frac{1.40E-03 \text{ lb}}{\text{ton}} * \frac{611,593 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{\underline{0.43 \text{ tons}}}$$

# Annual Emission Calculations

## EMISSION SOURCE NO. 9 (EU-009)

### 10 STORAGE PILE FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	3.96 lb/acre/day	TNRCC Technical Reference for Wood and Chip Handling in Kraft Pulp and Paper Mills
Bark Pile Size	0.50 acre	Estimate
Log Pile Size	2.00 acre	Estimate
Undried Lumber Pile Size	0.50 acre	Estimate
Dried Lumber Pile Size	0.50 acre	Estimate
Finished Lumber Pile Size	0.50 acre	Estimate
Days of Operation	104 days/yr	Based upon 50 hours per week, 50 weeks per year
Days of Operation	300 days/yr	Future expected days of operation

Calculation:

Present

$$\frac{3.96 \text{ lb}}{\text{acre-day}} \times 4.00 \text{ acre} \times \frac{104 \text{ days}}{\text{yr}} \times \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{\underline{0.82 \text{ tons yr}}}$$

Future

$$\frac{3.96 \text{ lb}}{\text{acre-day}} \times 4.00 \text{ acre} \times \frac{300 \text{ days}}{\text{yr}} \times \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{\underline{2.38 \text{ tons yr}}}$$

## Annual Emission Calculations

### EMISSION SOURCE NO. 10 (EU-010)

#### 11 PAVED ROADWAYS FUGITIVES

Present	Employee Vehicles	Chip Trucks	Bark Trucks	Log Trucks	Sawdust Trucks	Shipping Trucks
Number Onsite	55	3	1	3	3	3
Mean Vehicle Weight	2	25	25	25	25	25
Round trip miles per vehicle	0.1	0.5	0.5	0.5	0.5	0.5
Number of vehicle trips per year	4,661	1,715	420	4,277	419	1,589

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database Section 13.2.1. Equation is  $E = k (sL/2)^{0.65} (W/3)^{1.5}$

Where:

k = particle size multiplier (AP-42 Section 13.2-1)	0.016 lb/VMT
sL = road surface silt loading (AP-42 Section 13.2-1)	400 g/m <sup>2</sup>
W = average weight of vehicles (tons)	5.29 tons
E = lb/VMT (Vehicle Mile Traveled)	1.17 lb/VMT

$$\frac{1.17 \text{ lb}}{\text{VMT}} * \frac{4,676 \text{ VMT}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{2.74 \text{ tons}}{\text{yr}}$$

Future	Employee Vehicles	Chip Trucks	Bark Trucks	Log Trucks	Sawdust Trucks	Shipping Trucks
Number Onsite	165	9	3	9	3	9
Mean Vehicle Weight	2	25	25	25	25	25
Round trip miles per vehicle	0.1	0.5	0.5	0.5	0.5	0.5
Number of vehicle trips per year	49,500	9,781	2,388	24,376	2,388	9,086

Calculation:

W = average weight of vehicles (tons)	5.45 tons
E = lb/VMT (Vehicle Mile Traveled)	1.23 lb/VMT

$$\frac{1.23 \text{ lb}}{\text{VMT}} * \frac{28,960 \text{ VMT}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{17.81 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### EMISSION SOURCE NO. 11 (EU-011)

#### 12 CONVEYOR LOSS FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Bark Production	16,816 tons/yr	Average bark production for 1998 & 1999
Bark Production	95,502 tons/yr	Future expected bark production
Chips Production	68,587 tons/yr	Average chip production for 1998 & 1999
Chips Production	391,249 tons/yr	Future expected chips production
Shavings Production	5,323 tons/yr	Average shavings production for 1998 & 1999
Shavings Production	29,340 tons/yr	Future expected shavings production
Sawdust Production	16,772 tons/yr	Average sawdust production for 1998 & 1999
Sawdust Production	95,502 tons/yr	Future expected sawdust production

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database section 13.2-4. Equation is  $E = k (0.0032) ((U/5)^{1.3} / (M/2)^{1.4})$

Where:

k = particle size multiplier (AP-42 Section 13.2-4)	0.74
U = Mean Wind Speed (EPA's Tanks Database for Pennsacola)	8.55 mph
M = Moisture Content (max. for equation is 4.8%)	4.8%
E = Emission Factor (lb/ton)	1.40E-03 lb/ton

Present						
<u>1.40E-03 lb</u>	*	<u>107,498 tons</u>	*	<u>1 Ton</u>	*	<u>4 drop points</u>
ton		yr		2,000 lb		=
						<u>0.30 tons</u>
						yr
Future						
<u>1.40E-03 lb</u>	*	<u>611,593 tons</u>	*	<u>1 Ton</u>	*	<u>4 drop points</u>
ton		yr		2,000 lb		=
						<u>1.71 tons</u>
						yr

# Annual Emission Calculations

## VOC Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 13 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Lumber Drying Emission Factor	4.00 lb/Mbf	NCASI lumber database
Burner Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	27,028 Mbf/yr	Average kiln production for 1998 & 1999
Lumber Throughput	48,900 Mbf/yr	Future expected kiln production
Fuel Usage	22,005 tons/yr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Present

$$\frac{4.00 \text{ lb}}{\text{Mbf}} * \frac{27,028 \text{ Mbf}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{54.06 \text{ tons}}{\text{yr}}$$

Future

$$\frac{4.00 \text{ lb}}{\text{Mbf}} * \frac{48,900 \text{ Mbf}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{97.80 \text{ tons}}{\text{yr}}$$

$$\frac{0.22 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * 50% * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{1.21 \text{ tons}}{\text{yr}}$$

$$\text{Total} \quad \frac{97.80 \text{ tons}}{\text{yr}} + \frac{1.21 \text{ tons}}{\text{yr}} = \frac{99.01 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

**EMISSION POINT NO. 2 (EU-002)**

**14 NEW LUMBER DRYING KILN**

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Lumber Drying Emission Factor	4.00 lb/Mbf	NCASI lumber database
Burner Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	48,900 Mbf/yr	Future expected kiln production
Fuel Usage	22,005 tons/yr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Future

$$\begin{array}{rclclclcl}
 \frac{4.00 \text{ lb}}{\text{Mbf}} & * & \frac{48,900 \text{ MBf}}{\text{yr}} & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{97.80 \text{ tons}}{\text{yr}} \\
 \\
 \frac{0.22 \text{ lb}}{\text{ton}} & * & \frac{22,005 \text{ tons}}{\text{yr}} & * & 50\% & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{1.21 \text{ tons}}{\text{yr}} \\
 \\
 \text{Total} & & \frac{97.80 \text{ tons}}{\text{yr}} & + & \frac{1.21 \text{ tons}}{\text{yr}} & = & \frac{99.01 \text{ tons}}{\text{yr}}
 \end{array}$$



## Annual Emission Calculations

### EMISSION POINT NO. 3 (EU-003)

#### 15 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Lumber Drying Emission Factor	4.00 lb/Mbf	NCASI lumber database
Burner Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	48,900 Mbf/yr	Future expected kiln production
Fuel Usage	22,005 tons/yr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Future

$$\begin{array}{rclclclclcl}
 \frac{4.00 \text{ lb}}{\text{Mbf}} & * & \frac{48,900 \text{ Mbf}}{\text{yr}} & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{97.80 \text{ tons}}{\text{yr}} \\
 \\
 \frac{0.22 \text{ lb}}{\text{ton}} & * & \frac{22,005 \text{ tons}}{\text{yr}} & * & 50\% & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{1.21 \text{ tons}}{\text{yr}} \\
 \\
 & & \text{Total} & & \frac{97.80 \text{ tons}}{\text{yr}} & + & \frac{1.21 \text{ tons}}{\text{yr}} & = & \frac{99.01 \text{ tons}}{\text{yr}}
 \end{array}$$

#### 16 WOOD CHIP SHAVINGS SILO CYCLONE(EMISSION POINT WILL BE REMOVED AS PART OF PROJECT)

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.16 lb/ton	Extrapolated test data from a plywood facility
Throughput	2,110 tons/yr	Average kiln fuel usage for 1998 & 1999

Calculation:

Present

$$\frac{0.16 \text{ lb}}{\text{ton}} * \frac{2,110 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{0.17 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### EMISSION POINT NO. 5 (EU-005)

#### 17 PLANERMILL CYCLONE

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.16 lb/ton	Extrapolated test data from a plywood facility
Throughput	5,323 tons/yr	Average shavings production for 1998 & 1999
Throughput	29,340 tons/yr	Expected future shavings production

Calculation:

Present

$$\begin{array}{rclclcl}
 \frac{0.16 \text{ lb}}{\text{ton}} & * & \frac{5,323 \text{ tons}}{\text{yr}} & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{0.43 \text{ tons}}{\text{yr}}
 \end{array}$$

Future

$$\begin{array}{rclclcl}
 \frac{0.16 \text{ lb}}{\text{ton}} & * & \frac{29,340 \text{ tons}}{\text{yr}} & * & \frac{1 \text{ Ton}}{2,000 \text{ lb}} & = & \frac{2.35 \text{ tons}}{\text{yr}}
 \end{array}$$

## Annual Emission Calculations

### NOX Emission Calculations

#### EMISSION POINT NO. 1 (EU-001)

##### 18 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	2,110 tons/yr	Average fuel usage for 1998 & 1999
Kiln Burner Throughput	22,005 tons/yr	Future expected fuel usage

Calculation:

Present

$$\frac{1.02 \text{ lb}}{\text{ton}} * 2,110 \frac{\text{tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{1.08 \text{ tons}} \frac{\text{yr}}{\text{yr}}$$

Future

$$\frac{1.02 \text{ lb}}{\text{ton}} * 22,005 \frac{\text{tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{11.22 \text{ tons}} \frac{\text{yr}}{\text{yr}}$$

#### EMISSION POINT NO. 2 (EU-002)

##### 19 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	22,005 tons/yr	Future expected fuel usage

Calculation:

Future

$$\frac{1.02 \text{ lb}}{\text{ton}} * 22,005 \frac{\text{tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \underline{11.22 \text{ tons}} \frac{\text{yr}}{\text{yr}}$$

## Annual Emission Calculations

**EMISSION POINT NO. 3 (EU-003)**  
**20 NEW LUMBER DRYING KILN**

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	22,005 tons/yr	Maximum annual fuel usage

Calculation:

$$\begin{array}{r} \text{Future} \\ \frac{1.02 \text{ lb}}{\text{ton}} \end{array} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{11.22 \text{ tons}}{\text{yr}}$$

# Annual Emission Calculations

## CO Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 21 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>
Emission Factor	4.80 lb/ton
Kiln Burner Throughput	2,110 tons/yr
Kiln Burner Throughput	22,005 tons/yr

Reference  
 NCASI testing data for a green sawdust gasification system  
 Average fuel usage for 1998 & 1999  
 Future expected fuel usage

Calculation:

Present

$$\frac{4.80 \text{ lb}}{\text{ton}} * \frac{2,110 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{5.06 \text{ tons}}{\text{yr}}$$

Future

$$\frac{4.80 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{52.81 \text{ tons}}{\text{yr}}$$

### EMISSION POINT NO. 2 (EU-002)

#### 22 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>
Emission Factor	4.80 lb/ton
Kiln Burner Throughput	22,005 tons/yr

Reference  
 NCASI testing data for a green sawdust gasification system  
 Future expected fuel usage

Calculation:

Future

$$\frac{4.80 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{52.81 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### EMISSION POINT NO. 3 (EU-003) 23 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.80 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	22,005-tons/yr	Maximum annual fuel usage

Calculation:

Future

$$\frac{4.80 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{52.81 \text{ tons}}{\text{yr}}$$

## Annual Emission Calculations

### SO2 Emission Calculations

#### EMISSION POINT NO. 1 (EU-001)

##### 24 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.075 lb/ton	EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2
Kiln Burner Throughput	2,110 tons/yr	Average fuel usage for 1998 & 1999
Kiln Burner Throughput	22,005 tons/yr	Future expected fuel usage

Calculation:

Present

$$\frac{0.075 \text{ lb}}{\text{ton}} * \frac{2,110 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{0.08 \text{ tons}}{\text{yr}}$$

Future

$$\frac{0.075 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{0.83 \text{ tons}}{\text{yr}}$$

#### EMISSION POINT NO. 2 (EU-002)

##### 25 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.075 lb/ton	EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2
Kiln Burner Throughput	22,005 tons/yr	Future expected fuel usage

Calculation:

Future

$$\frac{0.075 \text{ lb}}{\text{ton}} * \frac{22,005 \text{ tons}}{\text{yr}} * \frac{1 \text{ Ton}}{2,000 \text{ lb}} = \frac{0.83 \text{ tons}}{\text{yr}}$$

# Annual Emission Calculations

## EMISSION POINT NO. 3 (EU-003) 26 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>
Emission Factor	0.075 lb/ton
Kiln Burner Throughput	22,005 tons/yr

Reference  
EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2  
Maximum annual fuel usage

Calculation:

$$\begin{array}{r} \text{Future} \\ \frac{0.075 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{r} \frac{22,005 \text{ tons}}{\text{yr}} \end{array} * \begin{array}{r} \frac{1 \text{ Ton}}{2,000 \text{ lb}} \end{array} = \begin{array}{r} \frac{0.83 \text{ tons}}{\text{yr}} \end{array}$$



**APPENDIX B**

**HOURLY EMISSION CALCULATIONS**

## Future Maximum Hourly Emission Calculations

### General Plant Data

	Future	Reference
Total Hourly Production	50 Mbf/hr	Maximum hourly production level
Log Weight Conversion Factor	6.33 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Log Weight Processed	316.50 tons/hr	
Chips Conversion Factor	2.54 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Chips Production	127.00 tons/hr	
Shavings Conversion Factor	0.20 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Shavings Production	5.44 tons/hr	
Bark Conversion Factor	0.62 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Total Bark Production	31.00 tons/hr	
Green Sawdust Production Factor	0.62 tons/Mbf	Calculated based upon 1998 & 1999 actual usage data
Green Sawdust Produced	31.00 tons/hr	
Total Lumber Produced	122.06 tons/hr	Based on log weight minus the sum of the weight of the byproducts
Kiln Fuel Usage (Green Sawdust)	10.19 tons/hr	
<b>Kiln Capacity</b>		
Lumber Drying Kiln No. 1 (existing)	9.06 Mbf/hr	Average value based upon the minimum cycle time
Lumber Drying Kiln No. 2 (new)	9.06 Mbf/hr	Average value based upon the minimum cycle time
Lumber Drying Kiln No. 3 (new)	9.06 Mbf/hr	Average value based upon the minimum cycle time

**Louisiana-Pacific Corporation**  
**Marianna Sawmill**  
**Future Maximum Hourly Emissions**

Source	Source ID	PM10 (lb/hr)	Ref	VOC (lb/hr)	Ref	NOx (lb/hr)	Ref	CO (lb/hr)	Ref	SO2 (lb/hr)	Ref
Lumber Drying Kiln	EU-001	2.42	27	36.61	38	3.47	42	16.32	45	0.27	48
<b>New Lumber Drying Kiln</b>	EU-002	2.42	28	36.61	39	3.47	43	16.32	46	0.27	49
<b>New Lumber Drying Kiln</b>	EU-003	2.42	29	36.61	40	3.47	44	16.32	47	0.27	50
Planermill Cyclone	EU-004	5.44	30	0.87	41	---		---		---	
Debarking Fugitives	EU-005	3.48	31	---		---		---		---	
Sawmill Fugitives	EU-006	63.30	32	---		---		---		---	
Chipping Fugitives	EU-007	3.81E-03	33	---		---		---		---	
Truck Loading Fugitives	EU-008	2.72E-01	34	---		---		---		---	
Storage Pile Fugitives	EU-009	0.66	35	---		---		---		---	
Paved Roadways Fugitives	EU-010	1.38	36	---		---		---		---	
Conveyor Loss Fugitives	EU-011	0.51	37	---		---		---		---	

## Future Maximum Hourly Emission Calculations

### PM10 Emission Calculations

#### EMISSION POINT NO. 1 (EU-001)

##### 27 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Lumber Throughput	9.06 Mbf/hr	Future expected kiln production

Calculation:

Future

$$\frac{0.267 \text{ lb}}{\text{Mbf}} * \frac{9.06 \text{ Mbf}}{\text{hr}} = \frac{2.42 \text{ lb}}{\text{hr}}$$

#### EMISSION POINT NO. 2 (EU-002)

##### 28 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Kiln Burner Throughput	9.06 Mbf/hr	Maximum annual fuel usage

Calculation:

Future

$$\frac{0.267 \text{ lb}}{\text{Mbf}} * \frac{9.06 \text{ Mbf}}{\text{hr}} = \frac{2.42 \text{ lb}}{\text{hr}}$$

## Future Maximum Hourly Emission Calculations

### EMISSION POINT NO. 3 (EU-003)

#### 29 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
PM10 Emission Factor	0.267 lb/Mbf	Maximum PM factor from NCASI lumber database
Kiln Burner Throughput	9.06 Mbf/hr	Maximum annual fuel usage

Calculation:

Future

$$\frac{0.267 \text{ lb}}{\text{Mbf}} \quad * \quad \frac{9.06 \text{ Mbf}}{\text{hr}} \quad = \quad \frac{2.42 \text{ lb}}{\text{hr}}$$

### EMISSION POINT NO. 4 (EU-004)

#### 30 PLANERMILL CYCLONE

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Shavings Throughput	5.44 tons/hr	Average of 1998 and 1999 total cyclone throughput
Control Efficiency	95%	Engineering estimate for control efficiency (total material)
PM10 Fraction	1%	Engineering estimate for fraction of PM10 in total material

Calculation:

Present

$$\frac{5.44 \text{ tons}}{\text{hr}} \quad * \quad 5\% \quad * \quad 1\% \quad * \quad \frac{2,000 \text{ lbs}}{\text{ton}} \quad = \quad \frac{5.44 \text{ lb}}{\text{hr}}$$

(percent emitted)

## Future Maximum Hourly Emission Calculations

### EMISSION SOURCE NO. 5 (EU-005)

#### 31 DEBARKING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.011 lb/ton	EPA's FIRE database (SCC: 30700801 - PM10 Filterable)
Log Usage	316.50 tons/hr	Future expected log weight

Calculation:

Future

$$\frac{0.011 \text{ lb}}{\text{ton}} * \frac{316.50 \text{ tons}}{\text{hr}} = \frac{3.48 \text{ lb}}{\text{hr}}$$

### EMISSION SOURCE NO. 6 (EU-006)

#### 32 SAWMILL FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.20 lb/ton	EPA's FIRE database (SCC: 30700802 - PM10 Filterable)
Log Usage	316.50 tons/hr	Future expected log weight

Calculation:

Future

$$\frac{0.200 \text{ lb}}{\text{ton}} * \frac{316.50 \text{ tons}}{\text{hr}} = \frac{63.30 \text{ lb}}{\text{hr}}$$

## Future Maximum Hourly Emission Calculations

### EMISSION SOURCE NO. 7 (EU-007)

#### 33 CHIPPING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	3.00E-05 lb/ton	TNRCC Technical Reference for Wood and Chip Handling in Kraft Pulp and Paper Mills
Chips Production	127.00 tons/hr	Future expected chip production

Calculation:

$$\begin{array}{rcl}
 \text{Future} & & \\
 \frac{3.00\text{E-}05 \text{ lb}}{\text{ton}} & * & \frac{127.00 \text{ tons}}{\text{hr}} = \frac{3.81\text{E-}03 \text{ lb}}{\text{hr}}
 \end{array}$$

### EMISSION SOURCE NO. 8 (EU-008)

#### 34 TRUCK LOADING FUGITIVES

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Bark Production	31.00 tons/hr	Future expected bark production
Chips Production	127.00 tons/hr	Future expected chips production
Shavings Production	5.44 tons/hr	Future expected shavings production
Sawdust Production	31.00 tons/hr	Future expected sawdust production

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database section 13.2-4. Equation is  $E = k (0.0032) ((U/5)^{1.3}/(M/2)^{1.4})$

Where:

k = particle size multiplier (AP-42 Section 13.2-4)	0.74
U = Mean Wind Speed (EPA's Tanks Database for Pensacola)	8.55 mph
M = Moisture Content (max. for equation is 4.8%)	4.8%
E = Emission Factor (lb/ton)	1.40E-03 lb/ton

$$\begin{array}{rcl}
 \text{Future} & & \\
 \frac{1.40\text{E-}03 \text{ lb}}{\text{ton}} & * & \frac{194 \text{ tons}}{\text{hr}} = \frac{2.72\text{E-}01 \text{ lb}}{\text{hr}}
 \end{array}$$

# Future Maximum Hourly Emission Calculations

**EMISSION SOURCE NO. 9 (EU-009)**  
**35 STORAGE PILE FUGITIVES**

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	3.96 lb/acre/day	TNRCC Technical Reference for Wood and Chip Handling in Kraft Pulp and Paper Mills
Bark Pile Size	0.50 acre	Estimate
Log Pile Size	2.00 acre	Estimate
Undried Lumber Pile Size	0.50 acre	Estimate
Dried Lumber Pile Size	0.50 acre	Estimate
Finished Lumber Pile Size	0.50 acre	Estimate

Calculation:

Future

$$\frac{3.96 \text{ lb}}{\text{acre-day}} \quad * \quad 4.00 \text{ acre} \quad * \quad \frac{1 \text{ day}}{24 \text{ hrs}} \quad = \quad \frac{0.66 \text{ lb}}{\text{hr}}$$



## Future Maximum Hourly Emission Calculations

EMISSION SOURCE NO. 10 (EU-010)

### 36 PAVED ROADWAYS FUGITIVES

Future

	Employee Vehicles	Chip Trucks	Bark Trucks	Log Trucks	Sawdust Trucks	Shipping Trucks
Number Onsite	165	9	3	9	3	9
Mean Vehicle Weight	2	25	25	25	25	25
Round trip miles per vehicle	0.1	0.5	0.5	0.5	0.5	0.5
Number of vehicle trips per day	165	3.18	0.78	7.91	0.78	3.05

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database Section 13.2.1. Equation is  $E = k (sL/2)^{0.65} (W/3)^{1.5}$

Where:

k = particle size multiplier (AP-42 Section 13.2-1)	0.016 lb/VMT
sL = road surface silt loading (AP-42 Section 13.2-1)	400 g/m <sup>2</sup>
W = average weight of vehicles (tons)	5.83 tons
E = lb/VMT (Vehicle Mile Traveled)	1.36 lb/VMT

$$\frac{1.36 \text{ lb}}{\text{VMT}} * \frac{24.35 \text{ VMT}}{\text{day}} * \frac{1 \text{ day}}{24 \text{ hrs}} = \frac{1.38 \text{ lb}}{\text{hr}}$$

## Future Maximum Hourly Emission Calculations

**EMISSION SOURCE NO. 11 (EU-011)**  
**37 CONVEYOR LOSS FUGITIVES**

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Bark Production	31.00 tons/hr	Future expected bark production
Chips Production	127.00 tons/hr	Future expected chips production
Shavings Production	5.44 tons/hr	Future expected shavings production
Sawdust Production	31.00 tons/hr	Future expected sawdust production

Calculation:

PM10 emission factor calculated based the equation provided in EPA's AP-42 Emission Factor Database section 13.2-4. Equation is  $E = k (0.0032) ((U/5)^{1.3}/(M/2)^{1.4})$

Where:

k = particle size multiplier (AP-42 Section 13.2-4)	0.35
U = Mean Wind Speed (EPA's Tanks Database for Pennsacola)	8.55 mph
M = Moisture Content (max. for equation is 4.8%)	4.8%
E = Emission Factor (lb/ton)	6.60E-04 lb/ton

$$\begin{array}{r}
 \text{Future} \\
 \underline{6.60E-04 \text{ lb}} \\
 \text{ton}
 \end{array}
 *
 \begin{array}{r}
 \underline{194.44 \text{ tons}} \\
 \text{hr}
 \end{array}
 *
 4 \text{ drop points}
 =
 \underline{\underline{0.51 \text{ lb}}} \\
 \text{hr}$$

## Future Maximum Hourly Emission Calculations

### VOC Emission Calculations

**EMISSION POINT NO. 1 (EU-001)**

**38 LUMBER DRYING KILN**

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.00 lb/Mbf	NCASI lumber database
Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	9.06 Mbf/hr	Future expected kiln production
Fuel Usage	3.40 tons/hr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Future

$$\begin{array}{rclclcl}
 \frac{4.00 \text{ lb}}{\text{Mbf}} & * & \frac{9.06 \text{ Mbf}}{\text{hr}} & = & \frac{36.24 \text{ lb}}{\text{hr}} & \\
 \\
 \frac{0.22 \text{ lb}}{\text{ton}} & * & \frac{3.40 \text{ tons}}{\text{hr}} & * & 50\% & = & \frac{0.37 \text{ lb}}{\text{hr}} \\
 \\
 & & \text{Total} & & \frac{36.24 \text{ lb}}{\text{hr}} & + & \frac{0.37 \text{ lb}}{\text{hr}} & = & \frac{36.61 \text{ lb}}{\text{hr}}
 \end{array}$$

## Future Maximum Hourly Emission Calculations

EMISSION POINT NO. 2 (EU-002)

### 39 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.00 lb/Mbf	NCASI lumber database
Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	9.06 Mbf/hr	Future expected kiln production
Fuel Usage	3.40 tons/hr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Future

$$\begin{array}{rclclcl}
 \frac{4.00 \text{ lb}}{\text{Mbf}} & * & \frac{9.06 \text{ Mbf}}{\text{hr}} & = & \frac{36.24 \text{ lb}}{\text{hr}} & \\
 \\
 \frac{0.22 \text{ lb}}{\text{ton}} & * & \frac{3.40 \text{ tons}}{\text{hr}} & * & 50\% & = & \frac{0.37 \text{ lb}}{\text{hr}} \\
 \\
 & & \text{Total} & & \frac{36.24 \text{ lb}}{\text{hr}} & + & \frac{0.37 \text{ lb}}{\text{hr}} & = & \frac{36.61 \text{ lb}}{\text{hr}}
 \end{array}$$

## Future Maximum Hourly Emission Calculations

### EMISSION POINT NO. 3 (EU-003)

#### 40 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.00 lb/Mbf	NCASI lumber database
Emission Factor	0.22 lb/ton	EPA's AP-42 Table 1.6-3 (green sawdust combustion)
Lumber Throughput	9.06 Mbf/hr	Future expected kiln production
Fuel Usage	3.40 tons/hr	Expected future fuel usage
Control Efficiency	50%	Engineering estimate of the kiln control efficiency (VOC's from green sawdust combustion)

Calculation:

Future

$$\begin{array}{rclclcl}
 \frac{4.00 \text{ lb}}{\text{Mbf}} & * & \frac{9.06 \text{ Mbf}}{\text{hr}} & = & \frac{36.24 \text{ lb}}{\text{hr}} \\
 \\ 
 \frac{0.22 \text{ lb}}{\text{ton}} & * & \frac{3.40 \text{ tons}}{\text{hr}} & * & 50\% & = & \frac{0.37 \text{ lb}}{\text{hr}} \\
 \\ 
 & & \text{Total} & & & & \\
 & & \frac{36.24 \text{ lb}}{\text{hr}} & + & \frac{0.37 \text{ lb}}{\text{hr}} & = & \frac{36.61 \text{ lb}}{\text{hr}}
 \end{array}$$

### EMISSION POINT NO. 4 (EU-004)

#### 41 PLANERMILL CYCLONE

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.16 lb/ton	Extrapolated test data from a plywood facility
Throughput	5.44 tons/hr	Expected future shavings production

Calculation:

Future

$$\frac{0.16 \text{ lb}}{\text{ton}} * \frac{5.44 \text{ tons}}{\text{hr}} = \frac{0.87 \text{ lb}}{\text{hr}}$$

# Future Maximum Hourly Emission Calculations

## NOX Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 42 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

Future

$$\frac{1.02 \text{ lb}}{\text{ton}} * \frac{3.40 \text{ tons}}{\text{hr}} = \underline{3.47 \text{ lb}}_{\text{hr}}$$

### EMISSION POINT NO. 2 (EU-002)

#### 43 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

Future

$$\frac{1.02 \text{ lb}}{\text{ton}} * \frac{3.40 \text{ tons}}{\text{hr}} = \underline{3.47 \text{ lb}}_{\text{hr}}$$

## Future Maximum Hourly Emission Calculations

EMISSION POINT NO. 3 (EU-003)

### 44 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	1.02 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

Future

$$\frac{1.02 \text{ lb}}{\text{ton}} * \frac{3.40 \text{ tons}}{\text{hr}} = \frac{3.47 \text{ lb}}{\text{hr}}$$

# Future Maximum Hourly Emission Calculations

## CO Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 45 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.80 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

$$\begin{array}{r} \text{Future} \\ \frac{4.80 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{r} \frac{3.40 \text{ tons}}{\text{hr}} \end{array} = \begin{array}{r} \frac{16.32 \text{ lb}}{\text{hr}} \end{array}$$

### EMISSION POINT NO. 2 (EU-002)

#### 46 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.80 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

$$\begin{array}{r} \text{Future} \\ \frac{4.80 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{r} \frac{3.40 \text{ tons}}{\text{hr}} \end{array} = \begin{array}{r} \frac{16.32 \text{ lb}}{\text{hr}} \end{array}$$



## Future Maximum Hourly Emission Calculations

EMISSION POINT NO. 3 (EU-003)

47 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	4.80 lb/ton	NCASI testing data for a green sawdust gasification system
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

Future

$$\frac{4.80 \text{ lb}}{\text{ton}} * \frac{3.40 \text{ tons}}{\text{hr}} = \frac{16.32 \text{ lb}}{\text{hr}}$$

# Future Maximum Hourly Emission Calculations

## SO2 Emission Calculations

### EMISSION POINT NO. 1 (EU-001)

#### 48 LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.075 lb/ton	EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

$$\begin{array}{l} \text{Future} \\ \frac{0.08 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{l} \frac{3.40 \text{ tons}}{\text{hr}} \end{array} = \begin{array}{l} \frac{0.27 \text{ lb}}{\text{hr}} \end{array}$$

### EMISSION POINT NO. 2 (EU-002)

#### 49 NEW LUMBER DRYING KILN

<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.075 lb/ton	EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

$$\begin{array}{l} \text{Future} \\ \frac{0.08 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{l} \frac{3.40 \text{ tons}}{\text{hr}} \end{array} = \begin{array}{l} \frac{0.27 \text{ lb}}{\text{hr}} \end{array}$$

## Future Maximum Hourly Emission Calculations

**EMISSION POINT NO. 3 (EU-003)**  
**50 NEW LUMBER DRYING KILN**

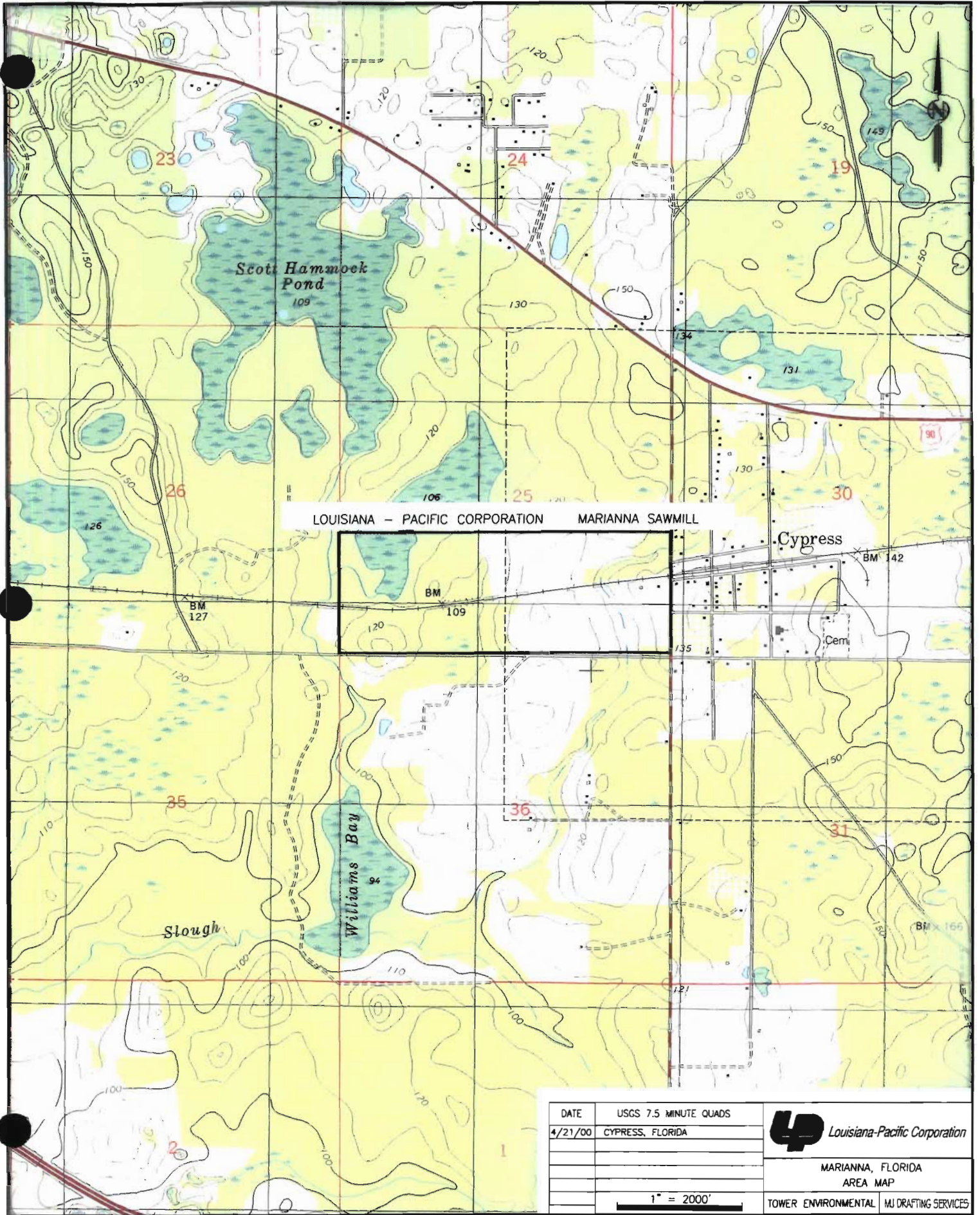
<u>Basis</u>	<u>Value</u>	<u>Reference</u>
Emission Factor	0.075 lb/ton	EPA's AP-42 emission factor database, Maximum factor from Table 1.6-2
Kiln Burner Throughput	3.40 tons/hr	Future expected fuel usage

Calculation:

$$\begin{array}{r} \text{Future} \\ \frac{0.08 \text{ lb}}{\text{ton}} \end{array} * \begin{array}{r} \frac{3.40 \text{ tons}}{\text{hr}} \end{array} = \begin{array}{r} \frac{0.27 \text{ lb}}{\text{hr}} \end{array}$$

**APPENDIX C**

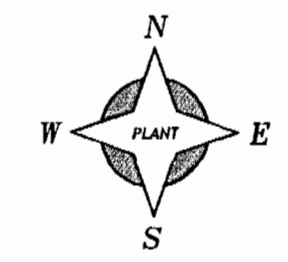
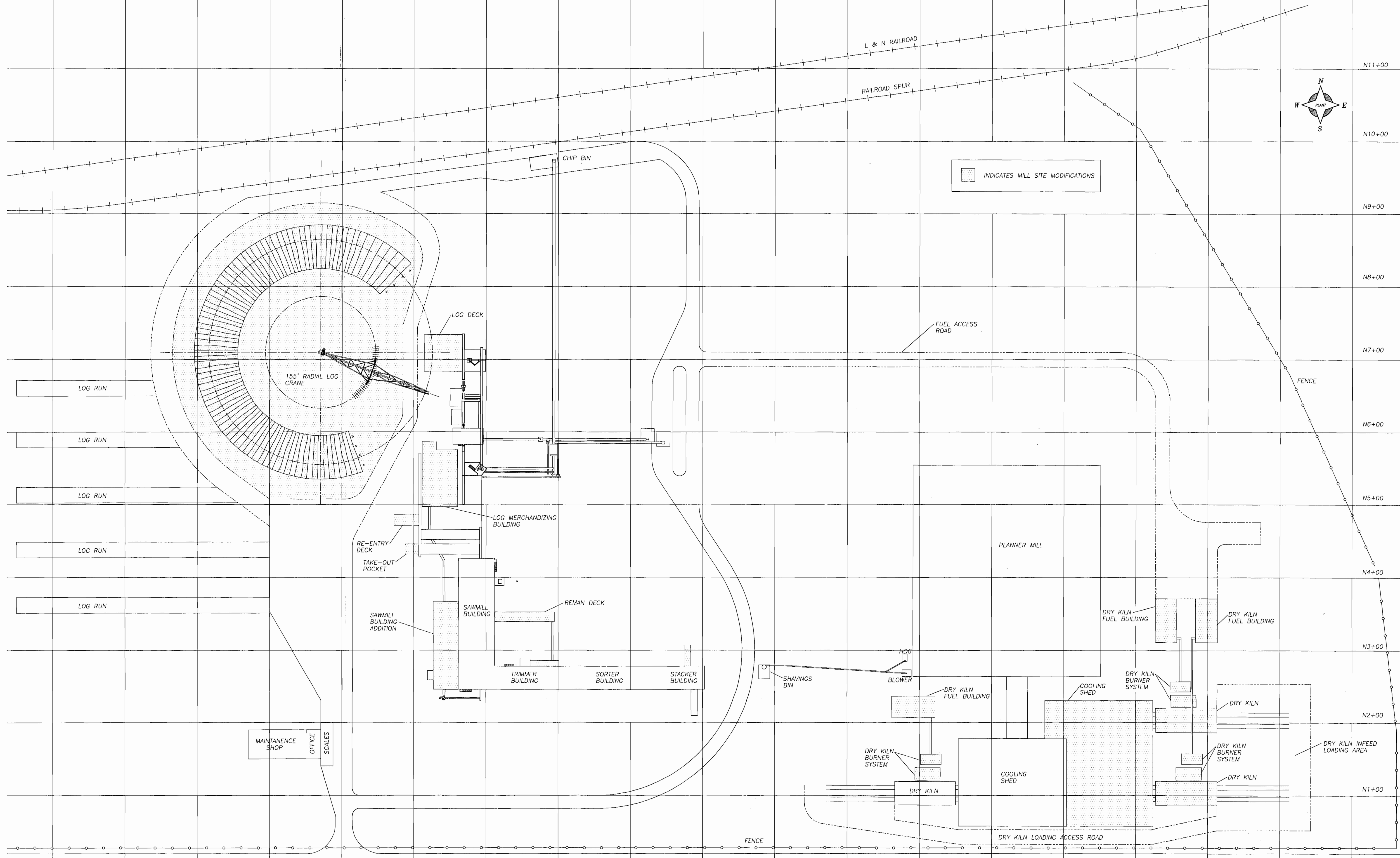
**AREA MAP AND SITE PLAN**





W26+00 W25+00 W24+00 W23+00 W22+00 W21+00 W20+00 W19+00 W18+00 W17+00 W16+00 W15+00 W14+00 W13+00 W12+00 W11+00 W10+00 W9+00 W8+00

N12+00  
N11+00  
N10+00  
N9+00  
N8+00  
N7+00  
N6+00  
N5+00  
N4+00  
N3+00  
N2+00  
N1+00



INDICATES MILL SITE MODIFICATIONS

CUSTOMER: LOUISIANA-PACIFIC CORPORATION  
MARSHALL, FLORIDA  
JOB LOCATION: FLD1  
JOB NO.: 01  
DRAWING NUMBER: C0003-01  
SHEET NO.: 1 OF 1  
REV. NO.: A

DRAWING TITLE: MILL SITE LAYOUT PLAN WITH MODIFICATIONS COMPLETED

DATE:	2/29/00	DATE:		DATE:	
BY:	PCM	BY:		BY:	
CHK.:	PP	CHK.:		CHK.:	
APPR.:	PP	APPR.:		APPR.:	
LAST PLOT DATE:		LAST PLOT DATE:		LAST PLOT DATE:	
LAST EDIT DATE:		LAST EDIT DATE:		LAST EDIT DATE:	
FOR REVIEW AND COMMENT:		DESCRIPTION:			
A					

WPE SERVICES, Inc.  
Benton, Louisiana

SCALE: 1" = 60'

**APPENDIX D**

**TITLE V CORE LIST**

# Title V Core List

Effective: 03/21/96

[Note: The Title V Core List is meant to simplify the completion of the "List of Applicable Regulations" for DEP Form No. 62-210.900(1), Application for Air Permit - Long Form. The Title V Core List is a list of rules to which all Title V Sources are presumptively subject. The Title V Core List may be referenced in its entirety, or with specific exceptions. The Department may periodically update the Title V Core List.]

**Federal:** (description)

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.

40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).

40 CFR 82, Subpart F: Recycling and Emissions Reduction.

**State:** (description)

**CHAPTER 62-4, F.A.C.: PERMITS, effective 10-16-95**

62-4.030, F.A.C.: General Prohibition.

62-4.040, F.A.C.: Exemptions.

62-4.050, F.A.C.: Procedure to Obtain Permits; Application.

62-4.060, F.A.C.: Consultation.

62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.

62-4.080, F.A.C.: Modification of Permit Conditions.

62-4.090, F.A.C.: Renewals.

62-4.100, F.A.C.: Suspension and Revocation.

62-4.110, F.A.C.: Financial Responsibility.

62-4.120, F.A.C.: Transfer of Permits.

62-4.130, F.A.C.: Plant Operation - Problems.

62-4.150, F.A.C.: Review.

62-4.160, F.A.C.: Permit Conditions.

62-4.210, F.A.C.: Construction Permits.

62-4.220, F.A.C.: Operation Permit for New Sources.

**CHAPTER 62-103, F.A.C.: RULES OF ADMINISTRATIVE PROCEDURE, effective 04-18-95**

62-103.150, F.A.C.: Public Notice of Application and Proposed Agency Action.

62-103.155, F.A.C.: Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

**CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 01-01-96**

62-210.300, F.A.C.: Permits Required.

62-210.300(1), F.A.C.: Air Construction Permits.



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62-210.300(2), F.A.C.: Air Operation Permits.  
62-210.300(3), F.A.C.: Exemptions.  
62-210.300(5), F.A.C.: Notification of Startup.

62-210.350, F.A.C.: Public Notice and Comment.  
62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to  
Operation Permits for Title V Sources.

62-210.360, F.A.C.: Administrative Permit Corrections.

62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.

62-210.400, F.A.C.: Emission Estimates.  
62-210.650, F.A.C.: Circumvention.  
62-210.700, F.A.C.: Excess Emissions.

62-210.900, F.A.C.: Forms and Instructions.  
62-210.900(1) Application for Air Permit - Long Form, Form and Instructions.  
62-210.900(5) Annual Operating Report for Air Pollutant Emitting Facility, Form and  
Instructions.

### **CHAPTER 62-212, F.A.C.: STATIONARY SOURCES - PRECONSTRUCTION REVIEW, effective 01-01-96**

62-212.700, F.A.C.: Source Reclassification.

### **CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 01-01-96**

62-213.205, F.A.C.: Annual Emissions Fee.  
62-213.210, F.A.C.: Permit Application Processing Fee.  
62-213.400, F.A.C.: Permits and Permit Revisions Required.  
62-213.410, F.A.C.: Changes Without Permit Revision.  
62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.  
62-213.420, F.A.C.: Permit Applications.  
62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.  
62-213.440, F.A.C.: Permit Content.  
62-213.460, F.A.C.: Permit Shield.

62-213.900, F.A.C.: Forms and Instructions.  
62-213.900(1) Major Air Pollution Source Annual Emissions Fee Form and Instructions.

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### **CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS,** effective 01-01-96

62-296.310(3), F.A.C.: Unconfined Emissions of Particulate Matter.

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.

### **CHAPTER 62-297, F.A.C.: STATIONARY SOURCES - EMISSIONS MONITORING,** effective 01-01-96

62-297.310, F.A.C.: General Test Requirements.

62-297.330, F.A.C.: Applicable Test Procedures.

62-297.340, F.A.C.: Frequency of Compliance Tests.

62-297.345, F.A.C.: Stack Sampling Facilities Provided by the Owner of an Emissions  
Unit.

62-297.350, F.A.C.: Determination of Process Variables.

62-297.570, F.A.C.: Test Report.

62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

#### Miscellaneous:

62-256, F.A.C.: Open Burning and Frost Protection Fires, effective 11-30-94

62-257, F.A.C.: Asbestos Notification and Fee, effective 12-31-95

62-281, F.A.C.: Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling,  
effective 04-16-92

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