

RECEIVED

MAY 3 0 2003

Palatka Pulp and Paper Operations Consumer Products Division

P.O. Box 919 Palatka, FL 32178-0919 (386) 325-2001

BUREAU OF AIR REGULATION May 29, 2003

Mr. A. A. Linero, P.E. State of Florida Department of Environmental Protection 2600 Blair Stone Road – Mail Station 3551 Tallahassee, Florida 32399-2400

RE: Georgia Pacific Corporation

Palatka Operations

MACT II Air Permit Application

Dear Mr. Linero:

Please find enclosed the MACT II Air Permit Application as required by 40 CFR Part 63, Subpart MM.

If you have any questions, please contact me at (386) 329-0918.

Sincerely,

Myrå J. Carpenter

Environmental Superintendent

tk

Enclosure

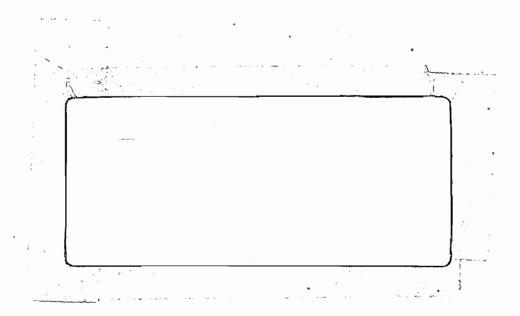
cc: W. M. Jernigan, w/o enc.

T. Wyles, w/o enc.

S. Matchett, w/o enc.

25:2 d S- NOT [00]

STATE OF FIG. DEPT. OF ENV. PA. NORTHEAST DIS.





RECEIVED

MAY 3 0 2003

BUREAU OF AIR REGULATION

MACT II AIR PERMIT APPLICATION GEORGIA-PACIFIC CORPORATION PALATKA MILL

Prepared for:

Georgia-Pacific Corporation North of CR 216; West of US 17 Palatka, Florida 32177

Prepared by:

Golder Associates Inc. 6241 NW 23rd Street, Suite 500 Gainesville, Florida 32653-1500

RECEIVED

" 0 5 2003

STATE OF FLORIDA
DEPT. OF ENV. PROTECTION
NORTHEAST DISTRICT-JAX

May 2003 0337515

DISTRIBUTION:

- 4 Copies FDEP
- 2 Copies Georgia-Pacific
- 2 Copies Golder Associates Inc.

PART A

APPLICATION FOR AIR PERMIT TITLE V SOURCE



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

I. APPLICATION INFORMATION

<u>Ide</u>	entification of Facility						
1.	. Facility Owner/Company Name:						
	Georgia-Pacific Corporation						
2.	Site Name:						
	Palatka Mill						
3.	Facility Identification Number: 1070	005		[] Unknow	n	
4.	Facility Location: Street Address or Other Locator: North	of C	R 216;	West of US 1	17		
	City: Palatka Count	y: I	Putnam	n	Zip Code:	32177	
5.	Relocatable Facility?		6. E	Existing Perm	itted Facilit	y?	
	[] Yes [X] No [X] Yes [] No						
Ap	plication Contact						
1.	Name and Title of Application Contact:						
	Myra Carpenter, Superintendent of Envir	onn	nental /	Affairs			
2.	Application Contact Mailing Address:		4:				
	Organization/Firm: Georgia-Pacific C	orpo	oration				
	Street Address: P.O. Box 919	G			7'- 0-1	20472 2042	
_	City: Palatka		tate: I	FL .	Zip Code:	32178-0919	
3.	Application Contact Telephone Number	rs:	_				
	Telephone: (386) 325 - 2001		F	ax: (386)	328 - 0014		
Ap	Application Processing Information (DEP Use)						
1.	Date of Receipt of Application:		5-3	11-03			
2.	Permit Number:		1020	1005 - 02	1-AC		
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) X 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: Theodore D. Kennedy, Vice President, Georgia-Pacific, Palatka Operations

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: Georgia-Pacific Corporation

Street Address: P.O. Box 919

City: Palatka

State: FL

Zip Code: **32178-0919**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (386) 325 - 2001

Fax: (386) 328-0014

4. Owner/Authorized Representative or Responsible Official Statement:

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.

Signature

Date

Professional Engineer Certification

1. Professional Engineer Name: David A. Buff

Registration Number: 19011

2. Professional Engineer Mailing Address:

Organization/Firm: Golder Associates Inc.*

Street Address: 6241 NW 23rd Street, Suite 500

darcos. Ozar MW Zord Otrect, Odric Ooo

City: Gainesville State: FL Zip Code: 32653-1500

3. Professional Engineer Telephone Numbers:

Telephone: (352) 336 - 5600 Fax: (352) 336 - 6603

* Board of Professional Engineers Certificate of Authorization #00001670

^{*} Attach letter of authorization if not currently on file.

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 [X], 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.

Signature Date

Attach any exception to certification statement.

Scope of Application

Emissions		Permit	Processing
Unit ID	Description of Emissions Unit	Туре	Fee
018	No. 4 Recovery Boiler	AC1B	
019	No. 4 Smelt Dissolving Tanks (2)	AC1B	
017	No. 4 Lime Kiln	AC1B	
·			

Application Processing Fee

Check one: [] Attache	d - Amount: \$:	[X]] Not Applicable
------------------------	-----------------	--------------	------------------

Construction/Modification Information 1. Description of Proposed Project or Alterations: See Part B 2. Projected or Actual Date of Commencement of Construction: NA – No Actual Construction 3. Projected Date of Completion of Construction: NA – No Actual Construction **Application Comment**

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	1. Facility UTM Coordinates:					
	Zone: 17		East (km):	434	.0 Nort	h (km): 3283.4
2.	Facility Latitude/Lo	_				
	Latitude (DD/MM/	SS): 29 / 41	/ 0	.]	Longitude (DD/MM	1/SS): 81 / 40 / 45
3.	Governmental	4. Facility	Status		Facility Major	6. Facility SIC(s):
	Facility Code:	Code:		1	Group SIC Code:	
	0	A		;	26	2611, 2621
7.	Facility Comment (limit to 500 c	haracters):			•
					•	
,						
		•				
						•

Facility Contact

1.	Name ar	id little	of h	acility	Contact:
----	---------	-----------	------	---------	----------

Myra Carpenter, Superintendent of Environmental Affairs

2. Facility Contact Mailing Address:

Organization/Firm: Georgia-Pacific Corporation

Street Address: P.O. Box 919

City: Palatka State: FL Zip Code: 32178-0919

3. Facility Contact Telephone Numbers:

Telephone: (386) 325-2001 Fax: (386) 328-0014

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. [X] One or More Emissions Units Subject to NSPS?
7. [X] 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
62-210.700(1) - Excess Emission
62-210.700(4) - Excess Emission
62-210.700(5) - Excess Emission
62-210.700(6) - Excess Emission
62-296.320(4) - General VE Limit
See Title V Core List, Effective 3/1/02

Title V Core List

Effective: 03/01/02

[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 06-01-01

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 62-210, F.A.C.: STATIONARY SOURCES - GENERAL **REQUIREMENTS**, effective 06-21-01

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

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

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.

62-210.300(6), F.A.C.: Emissions Unit Reclassification.

62-210.300(7), F.A.C.: Transfer of Air Permits.

Title V Core List

Effective: 03/01/02

- 62-210.350, F.A.C.: Public Notice and Comment.
- 62-210.350(1), F.A.C.: Public Notice of Proposed Agency Action.
- 62-210.350(2), F.A.C.: Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review.
- 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), F.A.C.: Application for Air Permit Title V Source, Form and Instructions.
- 62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.
- 62-210.900(7), F.A.C.: Application for Transfer of Air Permit Title V and Non-Title V Source.

CHAPTER 62-212, F.A.C.: STATIONARY SOURCES - PRECONSTRUCTION **REVIEW**, effective 08-17-00

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 04-16-01

- 62-213.205, F.A.C.: Annual Emissions 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.
- 62-213.415, F.A.C.: Trading of Emissions Within a Source.
- 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.
- 62-213.450, F.A.C.: Permit Review by EPA and Affected States
- 62-213.460, F.A.C.: Permit Shield.
- 62-213.900, F.A.C.: Forms and Instructions.
- 62-213.900(1), F.A.C.: Major Air Pollution Source Annual Emissions Fee Form.
- 62-213.900(7), F.A.C.: Statement of Compliance Form.

Title V Core List

Effective: 03/01/02

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 03-02-99

62-296.320(4)(c), 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 03-02-99

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:

CHAPTER 28-106, F.A.C.: Decisions Determining Substantial Interests

CHAPTER 62-110, F.A.C.: Exception to the Uniform Rules of Procedure, effective 07-01-98

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

CHAPTER 62-257, F.A.C.: Asbestos Notification and Fee, effective 02-09-99

CHAPTER 62-281, F.A.C.: Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling, effective 09-10-96

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions	5. Pollutant Comment
Ellitted	Classii.	lb/hour	tons/year	Cap	Comment
РМ	Α		,		Particulate Matter – Total
PM ₁₀	Α				Particulate Matter – PM ₁₀
SO ₂	Α				Sulfur Dioxide
NO _x	Α				Nitrogen Oxides
со	Α				Carbon Monoxide
voc	Α				Volatile Organic Compounds
SAM	Α				Sulfuric Acid Mist
TRS	A				Total Reduced Sulfur
HAPs	А				Total Hazardous Air Pollutants
H001	A		-		Acetaldehyde
H021	В	_			Beryllium Compounds
H043	Α				Chloroform
H095	Α				Formaldehyde
H106	Α				Hydrochloric Acid
H115	Α		ļ		Methanol

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1.	Area Map Showing Facility Location: [] Attached, Document ID: [] Not Applicable [x] Waiver Requested
2.	Facility Plot Plan: [] Attached, Document ID: [] Not Applicable [x] Waiver Requested
3.	Process Flow Diagram(s): [] Attached, Document ID: [] Not Applicable [x] Waiver Requested
4.	Precautions to Prevent Emissions of Unconfined Particulate Matter: [] Attached, Document ID: [x] Not Applicable [] Waiver Requested
5.	Fugitive Emissions Identification: [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
6.	Supplemental Information for Construction Permit Application: [X] Attached, Document ID: Part B [] Not Applicable
7.	Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: [] Attached, Document ID: [X] Not Applicable
9. List of Equipment/Activities Regulated under T	itle VI:
[] Attached, Document ID:	
[] Equipment/Activities On site but Not Req	uired to be Individually Listed
[X] Not Applicable	
10. Alternative Methods of Operation:	
[] Attached, Document ID: [X	Not Applicable
11. Alternative Modes of Operation (Emissions Tra	ding):
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Require [] Attached, Document ID: [X	
13. Risk Management Plan Verification:	
[] Plan previously submitted to Chemical En Office (CEPPO). Verification of submitta or previously submitted to DEP (Date and	al attached (Document ID:)
[] Plan to be submitted to CEPPO (Date req	uired:)
[X] Not Applicable	
14. Compliance Report and Plan: [] Attached, Document ID: [X	[] Not Applicable
15. Compliance Certification (Hard-copy Required) [] Attached, Document ID: [X	

_	_	_
1	of	3

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.	1. Type of Emissions Unit Addressed in This Section: (Check one)						
[x	X] 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).						
[process or prod		n addresses, as a single emis is which has at least one defin gitive emissions.				
[-		n addresses, as a single emis s which produce fugitive em				
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)				
[x] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is a regulated			
[] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is an unregulated			
3.	3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): No. 4 Recovery Boiler						
4.		lentification Number:		[] No ID			
	ID: 018			[] ID Unknown			
5.	5. Emissions Unit Status Code: Date: 7. Emissions Unit Major Group SIC Code: 26 8. Acid Rain Unit?						
9.	9. Emissions Unit Comment: (Limit to 500 Characters)						

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

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

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

1 of	3
------	---

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

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		1,278	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Throughp	ut Rate:	210,000	lb/hr BLS
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 C	omment (limit to 200 c	characters):	
	Maximum heat input rate and thi based on 6,084 Btu/lb BLS. Max			

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

```
62-296.404(1)(a)1. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(2)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(3)(c)1.a. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(3)(c)3. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(4)(a) Kraft Recovery Furnaces
62-296.404(4)(f) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(5)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(5)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(c)1. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(c)4. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(d) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-297.310 General Test Requirements
62-297.401(1)(a) EPA Method 1 - Sample and Velocity Traverses for Stationary Sources
62-297.401(2) EPA Method 2 - Determination of Stack Gas Velocity and Volumentric Flow Rate
62-297.401(3) EPA Method 3 - Gas Analysis for Carbon Dioxide, Oxygen, Excess Air, and Dry
  Molecular Weight
62-297.401(4) EPA Method 4 - Determination of Moisture Content in Stack Gases
62-297.401(5) EPA Method 5 - Determination of Particulate Emissions from Stationary Sources
62-297.401(7) EPA Method 7 - Determination of Nitrogen Oxide Emissions from Stationary Sources
62-297.401(7)(e) EPA Method 7E - Determination of Nitrogen Oxide Emissions from Stationary
  Sources
62-297.401(8) EPA Method 8 - Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions
  from Stationary Sources
62-297.401(9)(a) EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary
  Sources
62-297.401(10) EPA Method 10 - Determination of Carbon Monoxide Emissions from Stationary
62-297.401(16) EPA Method 16 – Semicontinuous Determination of Sulfur Emissions from
  Stationary Sources
62-297.401(16)(a) EPA Method 16A – Determination of Total Reduced Sulfur Emissions from
  Stationary Sources
62-297.401(25) EPA Method 25 – Determination of Total Gaseous Nonmethane Organic Emissions
  as Carbon
62-297.401(25)(a) EPA Method 25A – Determination of Total Gaseous Organic Concentration Using
  a Flame Ionization Detector
62-297.401(34) EPA Method 103 - Beryllium Screening Method
62-297.401(35) EPA Method 104 – Determination of Beryllium Emissions from Stationary Sources
40 CFR 63 - Subpart MM - NESHAPs for Chemical Recovery Combustion Sources, Kraft, Soda,
  Sulfite, and Stand Alone Semi-Chemical Pulp Mills
```

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

1	of	3

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

Emission Point Description and Type

1. Identification of Point on Pl Flow Diagram? 018	ot Plan or	2. Emission Po	int Type Code:	
3. Descriptions of Emission Po 100 characters per point):				
4. ID Numbers or Descriptions	s of Emission U	nits with this Emi		n:
5. Discharge Type Code: V	6. Stack Heig	ht: 230 feet	7. Exit Diameter: 12	feet
8. Exit Temperature: 425 °F	Rate:	umetric Flow 7,000 acfm	10. Water Vapor:	%
11. Maximum Dry Standard Flo 325,677	w Rate:		nission Point Height:	eet
13. Emission Point UTM Coord	linates:			
Zone: E	ast (km):	Nort	h (km):	
14. Emission Point Comment (l	imit to 200 char	acters):		
Maximum Dry Standard Flov	v Rate is at 8 per	cent O₂.		

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

Se	Segment Description and Rate: Segment 1 of 2						
1.	. Segment Description (Process/Fuel Type) (limit to 500 characters):						
	Pulp and Paper and Wood Products, Sulfate (Kraft) Pulping, Recovery Furnace/Indirect Contact Evaporator.						
2.	Source Classification Code 3-07-001-10	e (SC	CC):	3. SCC Units: Tons Air-dr		Jnbleached Pulp Produced	
4.	Maximum Hourly Rate: 118	5.	Maximum . 675,250	Annual Rate:	6.	Estimated Annual Activity Factor:	
7.	Maximum % Sulfur:	8.	Maximum (% Ash:	9.	Million Btu per SCC Unit:	
10.	Segment Comment (limit	to 20	00 characters):			
	Maximum annual rate is ba (monthly average).	sed (on maximun	n daily rate of 1,8	50 to	ons/day ADUP	
Se	gment Description and Ra	ite:	Segment 2	of 2			
1.	Segment Description (Pro	cess/	Fuel Type)	(limit to 500 cha	ract	ers):	
	External Combustion Boile	ers; lı	ndustrial: Re	esidual Oil			
2.	Source Classification Cod- 1-02-004-01	e (SC	CC):	3. SCC Units: Thousand Galle		Burned	
4.	Maximum Hourly Rate: 8.52	5. Maximum Annual Rate: 6. Estimated Annual Activity Factor:					
7.	Maximum % Sulfur: 2.35	8. Maximum % Ash: 9. Million Btu per SCC					
10	. Segment Comment (limit	to 20	00 characters):			
	Residual oil may include No. 6 fuel oil and on spec used oil. Fuel used for startup, shutdown, and malfunction only; therefore, an annual rate is inappropriate.						

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	010		EL
PM ₁₀	010		EL
SO ₂			EL
NO _X			EL
со			EL
voc			EL
SAM			EL
TRS			EL
HAPs			NS
H001			NS
H021	010		NS
H095			NS
H106			NS
H115			NS

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Emissions Unit Information Section	1	of _	.3	No. 4 Recovery Boiler
Pollutant Detail Information Page	1_	of	9	Particulate Matter - Total

Potential/Fugitive Emissions

1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	PM	
3.	Potential Emissions:	4. Synthetically
	83.75 lb/hour	366.8 tons/year Limited? []
5.	Range of Estimated Fugitive Emissions:	
	[] 1 [] 2 [] 3	to tons/year
6.	Emission Factor: 0.030 gr/dscf @ 8 percent	
	Reference: BACT	Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters):
	0.030 gr/dscf x 325,677 dscfm x 60 min/hr	÷ 7,000 gr/lb = 83.75 lb/hr
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
<u>Al</u>	lowable Emissions Allowable Emissions	1 of 1
1.	Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	0.030 gr/dscf @ 8 percent O₂	83.75 lb/hour 366.8 tons/year
5.	Method of Compliance (limit to 60 character	rs):
	Annual stack test using EPA Methods 5, 17, o	or 29.
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):
	Based on Title V permit and PSD permit limit	•

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Emissions Unit Information Section	1_	of _	3	No. 4 Recovery Boile
Pollutant Detail Information Page	2	of	9	Particulate Matter PM ₁₀

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
PM ₁₀	
3. Potential Emissions:	4. Synthetically
83.75 lb/hour	366.8 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	totons/year
6. Emission Factor: 0.030 gr/dscf @ 8 percent	· · · · · · · · · · · · · · · · · · ·
Reference: BACT	Method Code:
8. Calculation of Emissions (limit to 600 char	acters):
PM ₁₀ limit equal to PM limit.	
·	
0 7 11 (17 (17 (17 (17 (17 (17 (1	(3: '44 200 1 -44-)
9. Pollutant Potential/Fugitive Emissions Con	iment (limit to 200 characters):
Allowable Emissions Allowable Emissions	1_of_1_
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.030 gr/dscf @ 8 percent O ₂	83.75 lb/hour 366.8 tons/year
5. Method of Compliance (limit to 60 characte	ers):
Annual stack test using EPA Methods 5, 17,	or 29.
6. Allowable Emissions Comment (Desc. of C	Operating Method) (limit to 200 characters):

Emissions Unit Information Section	1	of	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	3	of	9	Sulfur Dioxide

Potential/Fugitive Emissions		
1. Pollutant Emitted:	2. Total Percent Effici	ency of Control:
SO ₂		
3. Potential Emissions:		4. Synthetically
121.7 lb/hour	533.2 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions:	<u> </u>	-
[] 1 [] 2 [] 3	to to	ons/year
6. Emission Factor: 75 ppmvd @ 8 percent O	2	7. Emissions
Reference: Permit Limit		Method Code: 0_
8. Calculation of Emissions (limit to 600 char	racters):	
75 ppmvd x 325,677 dscfm x 60 min/hr x x 64/1,545 ft-lb _f /lb _m - °R ÷ 528°R = 121.7		
9. Pollutant Potential/Fugitive Emissions Con	mmont (mmt to 200 onata	
Allowable Emissions Allowable Emissions	of	
Basis for Allowable Emissions Code: OTHER	2. Future Effective D Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units	: 4. Equivalent Allowa	ble Emissions:
75 ppmvd @ 8 percent O₂	121.7 lb/hour	533.4 tons/year
5. Method of Compliance (limit to 60 charact	ers):	
Annual stack test using EPA Method 8	·	
6. Allowable Emissions Comment (Desc. of	Operating Method) (limit	to 200 characters):
BACT		
		•

Emissions Unit Information Section	1	of _	_3	No. 4 Recovery Boiler
Pollutant Detail Information Page	4	of _	9	Nitrogen Oxides

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:								
NO _X									
3. Potential Emissions: 186.7 lb/hour	4. Synthetically Limited? []								
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	totons/year								
6. Emission Factor: 80 ppmvd @ 8 percent O ₂									
Reference: BACT	Method Code: 0								
8. Calculation of Emissions (limit to 600 chara	3. Calculation of Emissions (limit to 600 characters):								
80 ppmvd x 325,677 dscfm x 60 min/hr x 2 x 46/1,545 ft-lb ₄ /lb _m -ºR ÷ 528°R = 186.7 lb ₂									
9. Pollutant Potential/Fugitive Emissions Com									
Allowable Emissions Allowable Emissions									
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:								
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:								
80 ppmvd @ 8 percent O₂	186.7 lb/hour 817.5 tons/year								
5. Method of Compliance (limit to 60 characte	rs):								
Annual stack test using EPA Method 7 or 7E.									
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):								
BACT									

Emissions Unit Information Section	1	of	3_	No. 4 Recovery Boile
Pollutant Detail Information Page	5	of	9	· Carbon Monoxide

Potential/Fugitive Emissions					
1. Pollutant Emitted:	2. Total Percent Efficie	ency of Control:			
co					
3. Potential Emissions:		4. Synthetically			
1,135.9 lb/hour	2,487.6 tons/year	Limited? []			
5. Range of Estimated Fugitive Emissions:		,			
[] 1 [] 2 [] 3		ns/year			
6. Emission Factor: 800 ppmvd @ 8 percent C) ₂	7. Emissions Method Code:			
Reference: BACT		0			
8. Calculation of Emissions (limit to 600 chara	acters):				
CO limit of 900 mmm, d (2 hours are are) and	400 mmd (24 have aver-	and based on BACT			
CO limit of 800 ppmvd (3-hour average) and	400 ppmva (24-nour avera	ige) based on BAC1.			
800 ppmvd x 325,677 dscfm x 60 min/hr x					
\times 28/1,545 ft-lb _f /lb _m -°R ÷ 528°R = 1,135.9	lb/nr				
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters):			
	•	ŕ			
Allowable Emissions Allowable Emissions	1 of 2				
1. Basis for Allowable Emissions Code:	2. Future Effective Da	ate of Allowable			
OTHER	Emissions:				
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ble Emissions:			
800 ppmvd at 8 percent O ₂ , 3 hr	1,135.9 lb/hour	tons/year			
5. Method of Compliance (limit to 60 character	ers):				
Annual standards at a EBA M (I) 140					
Annual stack test using EPA Method 10					
6. Allowable Emissions Comment (Desc. of Comment	perating Method) (limit t	o 200 characters):			
BACT					
l .					

DEP Form No. 62-210.900(1) - Form Effective: 2/11/99

Emissions Unit Information Section	1	of	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	5	of	9	Carbon Monoxide

		
1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:
	co	
3.	Potential Emissions:	4. Synthetically
	lb/hour	tons/year Limited? []
5.	Range of Estimated Fugitive Emissions:	
<u></u>	[] 1 [] 2 . [] 3	totons/year
6.	Emission Factor:	7. Emissions
	Reference:	Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters):
	,	ŕ
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
ļ.		
	Level Device and the state of t	
<u>AI</u>	Iowable Emissions Allowable Emissions	2 of 2
1.	Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
<u>_</u>	OTHER	Emissions:
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	400 ppmvd at 8 percent O ₂ , 24 hour	lb/hour 2,487.6 tons/year
5.	Method of Compliance (limit to 60 characte	rs):
	Annual stack test using EPA Method 10	
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):
	BACT	
1		

Emissions Unit Information Section	1	of _	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	6	of	9	Volatile Organic Compound

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1 1/00	otal Percent Efficiency of Control:							
VOC .								
3. Potential Emissions:	4. Synthetically							
31.5 lb/hour 138	tons/year Limited? []							
5. Range of Estimated Fugitive Emissions:	As Assalisas							
[] 1	to tons/year							
6. Emission Factor: 0.3 lb/ton (BLS)	7. Emissions Method Code:							
Reference: BACT	0							
8. Calculation of Emissions (limit to 600 characters):								
0.30 lb/ton BLS x 105 TPH BLS = 31.5 lb/hr								
9. Pollutant Potential/Fugitive Emissions Comment (li	9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):							
· ·								
	•							
Allowable Emissions 1 of	<u> </u>							
Basis for Allowable Emissions Code: 2. Fig. 1. Basis for Allowable Emissions Code:	uture Effective Date of Allowable							
OTHER E	missions:							
3. Requested Allowable Emissions and Units: 4. E	quivalent Allowable Emissions:							
5. Requested Allowable Ellissions and Ollits. 4. El								
0.30 lb/ton (BLS)	31.5 lb/hour 138 tons/year							
	31.5 lb/hour 138 tons/year							
0.30 lb/ton (BLS) Method of Compliance (limit to 60 characters):	31.5 lb/hour 138 tons/year							
0.30 lb/ton (BLS) Method of Compliance (limit to 60 characters): Annual stack test using EPA Method 25 or 25A	·							
0.30 lb/ton (BLS) Method of Compliance (limit to 60 characters):	·							
0.30 lb/ton (BLS) Method of Compliance (limit to 60 characters): Annual stack test using EPA Method 25 or 25A	·							
0.30 lb/ton (BLS) Method of Compliance (limit to 60 characters): Annual stack test using EPA Method 25 or 25A Allowable Emissions Comment (Desc. of Operating)	·							

Emissions Unit Information Section	1	_ of _	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	7	of	9	Sulfuric Acid Mist

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1	Pollutant Emitted:	2	Tota	1 Pa	ercent	Effici	encv	of Control:		
1.			1014		creciii	Linei	ciicy	or control.		
	SAM									
3.	Potential Emissions:						4.	Synthetically		
	3.3 lb/hour	14	4.7	to	ons/yea	ar		Limited? []		
5.	Range of Estimated Fugitive Emissions:									
		_		<u> </u>	to	<u> to</u>	ns/ye			
6.	Emission Factor: 0.81 ppmvd						7.	Emissions		
	Reference: Permit limit							Method Code: 0		
8.	8. Calculation of Emissions (limit to 600 characters):									
	0.81 ft ³ /10 ⁶ ft ³ x 447,000 acf/min x 2,116.8 lb 1,545.3 ft-lb _f /lb _m -°R ÷ 860°R x 60 min/hr = 3			B lb	(H₂SO₄	,)/lb·r	nol (ł	d₂SO₄) ÷		
9.	Pollutant Potential/Fugitive Emissions Com	ment	(lim	nit t	o 200 i	charac	iters)): 		
Al	lowable Emissions Allowable Emissions	1	of_	1						
1.	Basis for Allowable Emissions Code: OTHER	2.			Effections:	ive D	ate o	f Allowable		
3.	Requested Allowable Emissions and Units:	4.	Equ	uiva	alent A	llowa	ble F	Emissions:		
	0.81 ppmvd			3	. 3 lb/h	our		14.7 tons/year		
5.	Method of Compliance (limit to 60 character	rs):				-		-		
_	NCASI 106			-						
6.	Allowable Emissions Comment (Desc. of Op	perat	ing l	Met	thod) (limit 1	10 20	0 characters):		
	BACT									

Emissions Unit Information Section	1	_ of _	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	8	of	9	Total Reduced Sulfu

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1.	Pollutant Emitted:	2. To	tal	Percent E	fficie	ncy	of Control:		
	TRS								
3.	Potential Emissions:					4.	Synthetically		
	19.4 lb/hour	53.1		tons/year			Limited? []		
5.	Range of Estimated Fugitive Emissions:			to	tor	ns/ye	ear		
6.	Emission Factor: 11.2 ppmvd @ 8 percent O)2					Emissions		
	Reference: BACT						Method Code:		
8.	Calculation of Emissions (limit to 600 chara	cters):							
	11.2 ft ³ /10 ⁶ ft ³ x 325,677 ft ³ /min x 60 min/hr lb·mol °R/1,545.3 ft-lb x 34 lb (H₂S)/lb·mol °R/1,545.3 ft-lb x 34 lb x 34 l				.4 lb/t	nr			
9.	Pollutant Potential/Fugitive Emissions Com	ment (n	11111	1 10 200 61	nar ac		• .		
Al	lowable Emissions Allowable Emissions	<u>1</u> of	· 	2					
1.	Basis for Allowable Emissions Code: OTHER	1		re Effectiv	e Da	te o	f Allowable		
3.	Requested Allowable Emissions and Units:	4. E	qui	valent All	owat	ole E	Emissions:		
	11.2 ppmvd @ 8 percent O ₂			19.4 lb/ho	ur		tons/year		
5.	Method of Compliance (limit to 60 character	rs):							
	Annual stack test using EPA Method 16 or 16A								
6.	Allowable Emissions Comment (Desc. of O	perating	g M	lethod) (li	mit to	200	0 characters):		
	BACT (maximum 12-hour average).								

Emissions Unit Information Section	1	of	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	8	of	9	Total Reduced Sulfur

1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:			
	TRS					
3.	Potential Emissions:		4. Synthetically			
	lb/hour	tons/year	Limited? []			
5.	Range of Estimated Fugitive Emissions:		,			
_		toto	ns/year			
6.	Emission Factor:		7. Emissions Method Code:			
	Reference:		Method Code.			
8.	Calculation of Emissions (limit to 600 chara	icters):				
9.	9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):					
	Ç	•	,			
<u>Al</u>	Allowable Emissions 2 of 2					
1.	Basis for Allowable Emissions Code:	2. Future Effective Da	ate of Allowable			
	OTHER	Emissions:				
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:			
	7.0 ppmvd @ 8 percent O₂	lb/hour	53.1 tons/year			
5.	Method of Compliance (limit to 60 characte	rs):				
	Continuous monitor for TRS					
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to	o 200 characters):			
-						
		·				
1						

Emissions Unit Information Section	1	of	3	No. 4 Recovery Boiler
Pollutant Detail Information Page	9	of	9	Beryllium Compounds

1. Pollutant Emitted:		2. T	otal I	Percent Ef	ficiency	of Control:
H021						
3. Potential Emissions: 0.00064	lb/hour	0.002	8 1	tons/year	4.	Synthetically Limited? []
5. Range of Estimated Fugit [] 1 [] 2	ive Emissions:	_		to	_ tons/y	/ear
6. Emission Factor: 0.5 lb/1 Reference: Permit					7.	Emissions Method Code:
8. Calculation of Emissions						0
0.5 lb/10 ¹² Btu x 210,000 l	b/hr BLS x 6,084 E	3tu/lb ∣	BLS :	= 0.00064	lb/hr	
9. Pollutant Potential/Fugitive Pollutant: Beryllium. Peri		`	limit	to 200 ch	aracters	i):
Allowable Emissions Allow	able Emissions	1 c	of	1		
Basis for Allowable Emis OTHER	sions Code:			e Effective	e Date o	of Allowable
3. Requested Allowable Em	issions and Units:	4.]	Equiv	alent Allo	wable 1	Emissions:
0.5 lb/10 ¹² Btu			0.000	64 lb/hou	r 0	.0028 tons/year
5. Method of Compliance (li	imit to 60 character	rs):				
Stack test using EPA Meth	nod 103 or 104 ever	y 5 yea	ars.			
6. Allowable Emissions Cor	nment (Desc. of Op	peratir	ng Me	ethod) (lin	nit to 20	00 characters):
BACT.				,		

Emissions Unit Information Section 1 of 3	No. 4 Recovery Boiler
---	-----------------------

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

	sible Emissions Limitation: Visible Emissi	ons Limitation 1 of 1			
1.	Visible Emissions Subtype: VE20	Basis for Allowable Opacity: [X] Rule [] Other			
3.	Requested Allowable Opacity: Normal Conditions: 20 % Ex Maximum Period of Excess Opacity Allower	sceptional Conditions: % ed: min/hour			
4.	Method of Compliance:				
	Annual VE test using EPA Method 9.				
5.	Visible Emissions Comment (limit to 200 c	haracters):			
	BACT	•			
	I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of				
<u>C</u>		5			
$\overline{}$		5			
$\overline{}$	Parameter Code: EM	Monitor <u>1</u> of <u>2</u>			
3.	Parameter Code: EM CMS Requirement: Monitor Information:	Monitor 1 of 2 2. Pollutant(s): TRS [X] Rule [] Other			
3.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In	Monitor of 2. Pollutant(s): TRS [X] Rule			
3.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In Model Number: Not available	Monitor1 of _2			
3.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In	Monitor of 2. Pollutant(s): TRS [X] Rule			
3. 4.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In Model Number: Not available Installation Date:	Monitor of 2. Pollutant(s): TRS [X] Rule			
3. 4.	Parameter Code: EM CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In Model Number: Not available Installation Date: Dec 2000 Continuous Monitor Comment (limit to 200)	Monitor of			

Emissions Unit Information Section	1 (of
---	-----	----

No. 4 Recovery Boiler

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

3

<u>Vi</u>	<u>Visible Emissions Limitation:</u> Visible Emissions Limitation of				
1.	Visible Emissions Subtype:	2.	Basis for Allowable O	pacity:	
	·		[] Rule	[] Other	
3.	Requested Allowable Opacity: Normal Conditions:		otional Conditions:	% min/hour	
	Method of Compliance:				
5.	Visible Emissions Comment (limit to 200 ch	hara	acters):		
<u>Co</u>	I. CONTINUOUS MODITION (Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sul	bject to Continuous M		
1.	Parameter Code: O ₂	2.	. Pollutant(s):		
3.	CMS Requirement:	[X] Rule	[] Other	
4.	Monitor Information: Manufacturer: Thermal Environmental Inst Model Number: 320B Serial		ument, Inc. ımber: Not available		
5.	Installation Date: Dec 2000	6.	. Performance Specific	ation Test Date:	
7.	Continuous Monitor Comment (limit to 200		·		
	Rule 62-296.404(5)(b)1.a. Monitor information reserves the right to replace this equipment				

Emissions Unit Information	Section	1	of	3
-----------------------------------	---------	---	----	---

No. 4 Recovery Boiler

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

Supplemental Requirements

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

Emissions Unit Information Section	1 .	of	3
---	-----	----	---

No. 4 Recovery Boiler

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NO _x Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NO _x Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

2 of 3

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.	1. Type of Emissions Unit Addressed in This Section: (Check one)						
[x	X] 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).						
[process or prod		n addresses, as a single emis s which has at least one defin titive emissions.				
[*		n addresses, as a single emis s which produce fugitive em				
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)				
[x] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is a regulated			
[] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is an unregulated			
3.	Description of En No. 4 Smelt Disso		in This Section (limit to 60 o	characters):			
4.	Emissions Unit Id	dentification Number:		[] No ID			
	ID: 019			[] ID Unknown			
5.	Emissions Unit	6. Initial Startup	7. Emissions Unit Major	8. Acid Rain Unit?			
	Status Code:	Date:	Group SIC Code: 26	[]			
9.	Emissions Unit C	Comment: (Limit to 500 C	Characters)				
	Emissions unit co	onsists of two smelt disso	olving tanks with a Venturi so	rubber on each tank			

Emissions Unit Information Section 2 of	No. 4 Sn	nelt Dissolving Tanks (2)
Emissions Unit Control Equipment		
1. Control Equipment/Method Description (Lim	t to 200 characters pe	r device or method):
Venturi scrubbers; one for each smelt dissolvi	ng tank	
, c., c., c., c., c., c., c., c., c., c.		
2. Control Device or Method Code(s): 53		
Emissions Unit Details		
1. Package Unit:		
Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		or
Dwell Temperature: Dwell Time:		°F 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:			mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Throughp	ut Rate:	210,000	lb/hr BLS
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 Co	omment (limit to 200 cl	naracters):	
	BLS feed to the No. 4 Recovery	Doner as a 24-m average	e .	

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

```
62-296.320(4)(a)2. General Pollutant Emission Limiting Standards
62-296.320(4)(a)3.a.(ii) General Pollutant Emission Limiting Standards
62-296.320(4)(a)3.c. General Pollutant Emission Limiting Standards
62-296.320(4)(b) General Pollutant Emission Limiting Standards
62-296.404(2)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(3)(d). Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(4)(c)1. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(4)(c)3. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(4)(f) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(5)(d) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(c)3. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(c)4. Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-296.404(6)(d) Kraft (Sulfate) Pulp Mills and Tall Oil Plants
62-297.310 General Test Requirements
62-297.401(1)(a) EPA Method 1 - Sample and Velocity Traverses for Stationary Sources
62-297.401(2) EPA Method 2 - Determination of Stack Gas Velocity and Volumentric Flow Rate
62-297.401(3) EPA Method 3 - Gas Analysis for Carbon Dioxide, Oxygen, Excess Air, and Dry
   Molecular Weight
62-297.401(4) EPA Method 4 - Determination of Moisture Content in Stack Gases
62-297.401(5) EPA Method 5 - Determination of Particulate Emissions from Stationary Sources
62-297.401(9)(a) EPA Method 9 - Visual Determination of the Opacity of Emissions from Stationary
62-297.401(16) EPA Method 16 – Semicontinuous Determination of Sulfur Emissions from
  Stationary Sources
62-297.401(16)(a) EPA Method 16A - Determination of Total Reduced Sulfur Emissions from
  Stationary Sources
40 CFR 63 - Subpart MM - NESHAPs for Chemical Recovery Combustion Sources, Kraft, Soda,
  Sulfite, and Stand Alone Semi-Chemical Pulp Mills
```

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? 019			Emission Po	int Type Code:	
3.	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):					
	Two smelt dissolving tank vents, each with a venturi scrubber.					
4.	ID Numbers or Descriptions	s of Emission Ui	nits '	with this Emi	ssion Point in Commo	on:
5.	Discharge Type Code:	6. Stack Heig	ht:		7. Exit Diameter:	
	V		206	feet	5	feet
8.	Exit Temperature:	9. Actual Vol	ume	tric Flow	10. Water Vapor:	- 1
	170 °F	Rate:		2		%
11	. Maximum Dry Standard Flo		12		nission Point Height:	
		dscfm	12	. I (Oliotatik El		feet
13.	. Emission Point UTM Coord	linates:				
	Zone: E	ast (km):		Nort	h (km):	
14.	. Emission Point Comment (imit to 200 char	acte	rs):		
	There are two identical smel Stack parameters are the sa			ssolving tank		
	- Caranta de Caranta d				•	
		,				

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

Segment Description and Ra	ite: Segment	1 of1			
1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
Pulp and Paper and Wood Products, Sulfate (Kraft) Pulping, Smelt Dissolving Tank: General.					
2. Source Classification Cod 3-07-001-05	e (SCC):	3. SCC Units: Tons Air-dr		Jnbleached Pulp Produced	
4. Maximum Hourly Rate: 118	5. Maximum Annual Rate: 675,250		6.	Estimated Annual Activity Factor:	
7. Maximum % Sulfur:	8. Maximum	% Ash:	9.	Million Btu per SCC Unit:	
10. Segment Comment (limit	to 200 characters	s):	1		
Maximum annual rate is ba (monthly average).	ised on maximur	n daily rate of 1,8	50 to	ons/day ADUP	
Segment Description and Ra	nte: Segment_	of			
1. Segment Description (Pro-	cess/Fuel Type)	(limit to 500 cha	ract	ers):	
2. Source Classification Cod	e (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	s):			

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
РМ	053	201100 0000	EL
PM ₁₀	053		EL
SO ₂			NS
NO _x			NS
voc			NS
TRS	053		EL
HAPs			NS
H095			NS
H115			NS
-			
		·	

Emissions Unit Information Section	2	of	3	No. 4 Smelt Dissolving Tanks (2)
Pollutant Detail Information Page	1	of	3	Particulate Matter - Total

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

<u>Po</u>	tential/Fugitive Emissions		
1.	Pollutant Emitted:	2. Total Percent Efficie	ency of Control:
	PM		
3.	Potential Emissions:		4. Synthetically
	12.6 lb/hour	55.2 tons/year	Limited? []
5.	Range of Estimated Fugitive Emissions:		
_		to to	ns/year
6.	Emission Factor: 0.12 lb/ton BLS		7. Emissions
	Reference: BACT		Method Code:
8.	Calculation of Emissions (limit to 600 chara	cters):	
			·
	PM limit based on Title V permit and PSD per	mit.	
	0.12 lb/ton BLS x 105 tons/hr BLS = 12.6 lb	/hr	
9.	Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters):
	1 onucum 1 ocenium 1 ugan ve Emilionem Com	mont (mmt to 200 onarac	
<u>Al</u>	lowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>	
1.		2. Future Effective Da	ate of Allowable
	OTHER	Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowal	ble Emissions:
	0.12 lb/ton BLS	12.6 lb/hour	55.2 tons/year
5.	Method of Compliance (limit to 60 characte	rs):	
	Annual stock test with FDA Mathed 5		
	Annual stack test using EPA Method 5.		
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit t	o 200 characters):
	BACT.		
	DAVI.		
١.			

Emissions Unit Information Section	2	of	3	No. 4 Smelt Dissolving Tanks (2)
Pollutant Detail Information Page	2	of	3	Particulate Matter – PM ₁₀

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

Potential/Fugitive Emissions

1 Occurrant ugitive Emissions	
1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
PM ₁₀	
3. Potential Emissions:	4. Synthetically
12.6 lb/hour	55.2 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
	to to tons/year
6. Emission Factor: 0.12 lb/ton BLS	7. Emissions Method Code:
Reference: BACT	0
8. Calculation of Emissions (limit to 600 cha	racters):
PM ₁₀ limit based on PM emissions and BA	CT.
Finite inter based on Fin ethissions and base	
9. Pollutant Potential/Fugitive Emissions Co.	mment (limit to 200 characters):
Allowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Units	: 4. Equivalent Allowable Emissions:
0.12 lb/ton BLS	12.6 lb/hour 55.2 tons/year
5. Method of Compliance (limit to 60 charac	ters):
Appual stock took weiger EDA Method 5	
Annual stack test using EPA Method 5	·
6. Allowable Emissions Comment (Desc. of	Operating Method) (limit to 200 characters):
BACT	
JA01	

Emissions Unit Information Section		of	3	No. 4 Smelt Dissolving Tanks (2
Pollutant Detail Information Page	2	of	3 -	Particulate Matter – PM ₁₀

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
PM ₁₀	
3. Potential Emissions:	4. Synthetically
lb/hour	tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	to tons/year
6. Emission Factor:	7. Emissions
Reference:	Method Code:
8. Calculation of Emissions (limit to 600 chara	icters):
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
_	
Allowable Emissions Allowable Emissions	2 of 2
	2 Potenting Date of Allowells
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable
	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
12.6 lb/hr	12.6 lb/hour 55.2 tons/year
5. Method of Compliance (limit to 60 characte	rs):
- · · · · ·	,
6. Allowable Emissions Comment (Desc. of O	marating Mathod) (limit to 200 characters):
6. Anowable Emissions Comment (Desc. 01 O	peraning internous (minit to 200 characters).
	·

Emissions Unit Information Section	2	of	3	No. 4 Smelt Dissolving Tanks (2)
Pollutant Detail Information Page	3	of	3	Total Reduced Sulfur

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

Potential/Fugitive Emissions	
1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
TRS	
3. Potential Emissions:	4. Synthetically
3.4 lb/hour	14.9 tons/year Limited? []
5. Range of Estimated Fugitive Emissions	: 3 to tons/year
6. Emission Factor: 0.048 lb/3000 lb BLS	7. Emissions
Reference: 62.296.404(3)(d)1.	Method Code:
	5
8. Calculation of Emissions (limit to 600 c	characters):
0.048 lb/3,000 lb BLS x 210,000 lb/hr BL	S = 3.4 lb/hr
9. Pollutant Potential/Fugitive Emissions (Comment (limit to 200 characters):
Allowable Emissions Allowable Emission	s1_ of1_
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Ur	nits: 4. Equivalent Allowable Emissions:
0.048 lb/3000 lb BLS	3.4 lb/hour 14.9 tons/year
5. Method of Compliance (limit to 60 char	racters):
Annual stack test using EPA Method 16	or 16A
6. Allowable Emissions Comment (Desc.	of Operating Method) (limit to 200 characters):
62-296.404(3)(d)1.	
02-230.404(3)(u)1.	

Er	nissions Unit Information Section 2	of 3 No. 4 Smelt Dissolving Tanks (2)
	H. VISIBLE EMISS	IONS INFORMATION
		nits Subject to a VE Limitation)
<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ions Limitation1 _ of1
1.	Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity: Normal Conditions: % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour
4.	Method of Compliance:	
5.	Visible Emissions Comment (limit to 200 c	haracters):
	Due to moisture interference, the visible emi Rule 62-296.320(4) is not applicable and is de	<u> </u>
Co		ONITOR INFORMATION S Subject to Continuous Monitoring) Monitor 1 of 2
1.	Parameter Code: FLOW	2. Pollutant(s):
3.	CMS Requirement:	[X] Rule [] Other
4.	Monitor Information: Manufacturer: Foxboro Model Number: 2803-SABA-TSA-G	Serial Number: 5252373
5.	Installation Date: 01 Dec 1976	6. Performance Specification Test Date:
7.	Continuous Monitor Comment (limit to 200	characters):
	Monitor information describes equipment in this equipment as maintenance may require.	operation. G-P reserves the right to replace
		

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

1	sible Emissions Limitation: Visible Emission	ons	Limi	tation of_	
	Visible Emissions Subtype:	2.	Basi	s for Allowable C	Opacity:
			[]	Rule	[] Other
3.	Requested Allowable Opacity:				
		•	tional	Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:			min/hour
4	Mothed of Compliance				
4.	Method of Compliance:				
5.	Visible Emissions Comment (limit to 200 cl	hara	cters		
					•
	I. CONTINUOUS MO	NIT	'AR I	INFORMATION	1
	(Only Regulated Emissions Units				
<u>C</u>	ontinuous Monitoring System: Continuous		•		<u>. </u>
1.	Parameter Code: FLOW	2.	Poll	utant(s):	
2	CMC D	<u> </u>	w 1 D		r 104.
3.	CMS Requirement:	L	X]R	cule	[] Other
4	Monitor Information:				
-τ.					
7.	Manufacturer: Taylor				
	Manufacturer: Taylor Model Number: Not available	Se	rial N	lumber: See Com	ment
5.	Manufacturer: Taylor Model Number: Not available Installation Date:	_		Tumber: See Com	
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976	6.	Peri	formance Specific	
5.	Manufacturer: Taylor Model Number: Not available Installation Date:	6.	Peri	formance Specific	
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976 Continuous Monitor Comment (limit to 200	6.	Peri	formance Specificers):	ation Test Date:
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976	6. cha	Peri	formance Specificers):	ation Test Date:
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976 Continuous Monitor Comment (limit to 200 Monitor information describes equipment in	6. cha	Peri	formance Specificers):	ation Test Date:
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976 Continuous Monitor Comment (limit to 200 Monitor information describes equipment in	6. cha	Peri	formance Specificers):	ation Test Date:
5.	Manufacturer: Taylor Model Number: Not available Installation Date: 01 Dec 1976 Continuous Monitor Comment (limit to 200 Monitor information describes equipment in	6. cha	Peri	formance Specificers):	ation Test Date:

mation	Section	2	of	3

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

Supplemental Requirements

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

Emissions	U	nit	I	nfoi	rma	tion	Sec	ction
------------------	---	-----	---	------	-----	------	-----	-------

2	of	3

No. 4 Smelt Dissolving Tanks (2)

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NO _x Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NO _x Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions Unit Information Section 3	3 (of
--------------------------------------	-----	----

III. EMISSIONS UNIT INFORMATION

3

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

Emissions One Description and Status						
1.	Type of Emission	s Unit Addressed in This	s Section: (Check one)			
[x	[X] 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).					
]	process or prod		n addresses, as a single emis s which has at least one defi- titive emissions.			
]	-		n addresses, as a single emis s which produce fugitive em			
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)			
[x	The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is a regulated		
[The emissions uemissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is an unregulated		
3.	3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): No. 4 Lime Kiln					
4.		lentification Number:		[] No ID		
	ID: 017			[] ID Unknown		
5.	Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 26	8. Acid Rain Unit?		
9.	9. Emissions Unit Comment: (Limit to 500 Characters)					
1						

Emissions	Unit	Information	n Section	3	of	3

Emissions	<u>Unit</u>	Control	Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or meth	t/Method Description	entrol Equipment/Method Description (Limit to 2)	200 characters per d	levice or metho	d):
---	----------------------	--	----------------------	-----------------	-------------

Venturi scrubber

2. Control Device or Method Code(s): 53

Emissions Unit Details

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

U	micc	ions	Timit	Inform	nation	Section
r.	miss	ions	Unit	iniori	narion	Section

3	of	3

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

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		140	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr		tons/day
3.	Maximum Process or Throughp	ut Rate:	See Comme	nt
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 C	omment (limit to 200	characters):	
	Maximum Heat Input Rate based Maximum Process/Throughput F			,vvv Btu/gai.

3 of 3

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

- 62-296.320(4)(a) General Pollutant Emission Limiting Standards 62-296.320(4)(b) General Pollutant Emission Limiting Standards 62-296.404(2)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(3)(e) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(4)(b) Lime Kilns and Calciners 62-296.404(4)(f) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(5)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(5)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(6)(a) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(6)(b) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(6)(c)2. Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-296.404(6)(d) Kraft (Sulfate) Pulp Mills and Tall Oil Plants 62-297.310 General Test Requirements 62-297.401(1)(a) EPA Method 1 - Sample and Velocity Traverses for Stationary Sources 62-297.401(2) EPA Method 2 - Determination of Stack Gas Velocity and Volumentric Flow Rate 62-297.401(3) EPA Method 3 - Gas Analysis for Carbon Dioxide, Oxygen, Excess Air, and Dry Molecular Weight 62-297.401(4) EPA Method 4 - Determination of Moisture Content in Stack Gases 62-297.401(5) EPA Method 5 - Determination of Particulate Emissions from Stationary Sources 62-297.401(7) EPA Method 7 - Determination of Nitrogen Oxide Emissions from Stationary Sources 62-297.401(7)(e) EPA Method 7E - Determination of Nitrogen Oxide Emissions from Stationary Sources
- 62-297.401(8) EPA Method 8 Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources
- 62-297.401(10) EPA Method 10 Determination of Carbon Monoxide Emissions from Stationary Sources
- 62-297.401(16) EPA Method 16 Semicontinuous Determination of Sulfur Emissions from Stationary Sources
- 62-297.401(16)(a) EPA Method 16A Determination of Total Reduced Sulfur Emissions from Stationary Sources
- 62-297.401(25) EPA Method 25 Determination of Total Gaseous Nonmethane Organic Emissions as Carbon
- 62-297.401(25)(a) EPA Method 25A Determination of Total Gaseous Organic Concentration Using a Flame Ionization Detector
- 40 CFR 63 Subpart MM NESHAPs for Chemical Recovery Combustion Sources, Kraft, Soda, Sulfite, and Stand Alone Semi-Chemical Pulp Mills

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

Emission Point Description and Type

1.	Identification of Point on Pl Flow Diagram? 017	ot Plan or	2.	Emission Po	int Type Code:		
3.	Descriptions of Emission Per 100 characters per point):	oints Comprising	g thi	s Emissions (Jnit for VE Tracking	(li	mit to
4.	ID Numbers or Descriptions	s of Emission Ur	nits v	with this Emi	ssion Point in Comm	on	:
5.	Discharge Type Code:	6. Stack Heigh	ht:		7. Exit Diameter:		
	V		131	feet	4.4		feet
8.	Exit Temperature:	9. Actual Vol	ume	tric Flow	10. Water Vapor:		
	170 °F	Rate:			34		%
11	. Maximum Dry Standard Flo		4,000		nission Point Height:		
11.	45,853		12.	. Inolistack El		fe	et
13.	. Emission Point UTM Coord	linates:			 -		
	Zone: E	ast (km):		Nort	h (km):		
14.	Emission Point Comment (imit to 200 char	acte	rs):			
	Maximum Dry Standard Flow Rate is @ 10 percent O₂						

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

Se	gment Description and Ra	te: Segment1	l of2			
1.	1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
	Pulp and Paper and Wood	Products Sulfate	(Kraft) Pulning	Lime Kiln: General		
	r dip and r aper and wood	r roducts, odnati	s (Marty r dipilig,	Linic Kiiii. General		
2.	Source Classification Code	e (SCC):	3. SCC Units			
	3-07-001-06			ied Unbleached Pulp Produced		
4.	Maximum Hourly Rate: 118	5. Maximum 675,250	Annual Rate:	6. Estimated Annual Activity Factor:		
7.	Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10.	. Segment Comment (limit t	to 200 characters	s):			
	Maximum annual rate is ba (monthly average).	sed on maximun	n daily rate of 1,8	50 tons/day ADUP		
Ļ						
Se	gment Description and Ra		of 2			
1.	Segment Description (Prod	cess/Fuel Type)	(limit to 500 cha	aracters):		
	In-Process Fuel Use: Resid	lual Oil, Lime Kilı	n			
	_					
2.		e (SCC):	3. SCC Units			
	3-90-004-03		Thousand Gall			
4.	Maximum Hourly Rate: 0.933	5. Maximum 8,173	Annual Rate:	6. Estimated Annual Activity Factor:		
7.	Maximum % Sulfur: 2.35	8. Maximum	% Ash:	9. Million Btu per SCC Unit: 150		
10.	. Segment Comment (limit	to 200 characters	s):			
	Residual oil may include N	o 6 fuel oil and c	on enac usad oil			
	residual on may include is	o. o idei on and c	m spec useu on.			
1						

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	053		EL
PM ₁₀	053		EL
\$O₂		053	EL
NO _x			EL
со			EL
voc			EL
TRS			EL
РВ			NS
HAPs			NS
H001			NS
H095			NS
H115			NS
_			

Emissions Unit Information Section	3	of _	3	
Pollutant Detail Information Page	1	οf	7	

Particulate Matter - Total

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
РМ	
3. Potential Emissions:	4. Synthetically
31.84 lb/hour	139.5 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	to tons/year
6. Emission Factor: 0.081 gr/dscf @ 10 percen	
Reference: BACT	Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):
0.004 and 4.55 at 45.052 deadlesin as 60 min/ha	7.000 mg/lb
0.081 gr/dscf x 45,853 dscf/min x 60 min/hr	+ 7,000 gr/lb = 31.84 lb/nr
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
7. Totalant Totalitan agitive Emissions Com	ment (mint to 200 characters).
	·
Allowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.081 gr/dscf @ 10 percent O₂	31.84 lb/hour 139.5 tons/year
5. Method of Compliance (limit to 60 characte	rs):
Annual stack test using EPA Method 5.	
6. Allowable Emissions Comment (Desc. of O	nerating Method) (limit to 200 characters):
2 330, 01 0	r
Based on BACT.	

Emissions Unit Information Section _	3	of	3	No. 4 Lime Kiln
Pollutant Detail Information Page	2	of	7	Particulate Matter – PM ₁₀

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

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
PM ₁₀	·
3. Potential Emissions:	4. Synthetically
31.84 lb/hour	139.5 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
	toto
6. Emission Factor: 0.081 gr/dscf @ 10 perce	_
Reference: BACT	Method Code:
8. Calculation of Emissions (limit to 600 char	racters):
PM ₁₀ limit based on PM emissions.	
9. Pollutant Potential/Fugitive Emissions Con	nment (limit to 200 characters):
Assume 100 percent of PM ₁₀ = PM	
Allowable Emissions Allowable Emissions	<u>1</u> of <u>1</u>
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.081 gr/dscf @ 10 percent O₂	31.84 lb/hour 139.5 tons/year
5. Method of Compliance (limit to 60 charact	ers):
Annual stack test using EPA Method 5	
6. Allowable Emissions Comment (Desc. of Comment	Operating Method) (limit to 200 characters):
Based on BACT.	

Emissions Unit Information Section	3	of _	3	
Pollutant Detail Information Page	3	of	7	

No. 4 Lime Kiln Sulfur Dioxides

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

Potential/Fugitive Emissions

	tentian agitive Dimissions				
1.	Pollutant Emitted:			Percent Efficie	ency of Control:
	SO₂	50)%		
3.	Potential Emissions:				4. Synthetically
	10.9 lb/hour	47.7	7	tons/year	Limited? []
5.	Range of Estimated Fugitive Emissions:				
	[] 1 [] 2 [] 3			to to	ns/year
6.	Emission Factor: 0.15 lb/ton ADUP				7. Emissions
	Reference: AP-42, Table 10.2-1				Method Code: 0
8.	Calculation of Emissions (limit to 600 chara	cters):			·
	38,889 lb/hr (C _a O and inerts) x 0.90 lb CaO/lb = 72.9 ton/hr ADUP 72.9 ton/hr ADUP x 0.3 lb/ton ADUP x (1-0.5)				UP/0.24 tons CaO
9.	Pollutant Potential/Fugitive Emissions Com Emission factor is based on 0.3 lb/ton ADUP	`			,
<u>Al</u>	lowable Emissions Allowable Emissions	<u>1</u> o	f	1	
1.	Basis for Allowable Emissions Code: OTHER			re Effective Da	ate of Allowable
3.	Requested Allowable Emissions and Units:	4. E	2qu	ivalent Allowa	ble Emissions:
	0.15 lb/ton (ADUP)			10.9 lb/hour	47.7 tons/year
5.	Method of Compliance (limit to 60 characte	rs):			
	Annual stack test using EPA Method 8				
6.	Allowable Emissions Comment (Desc. of O	peratin	g N	1ethod) (limit t	o 200 characters):
	BACT. Requested Allowable Emissions base 50 percent control.	ed on 0	.3 II	o (SO₂)/ton (AD	UP) and

Emissions Unit Information Section	3	of	3	No. 4 Lime Kiln
Pollutant Detail Information Page	4	of	7	Nitrogen Oxides

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
NO _x	
3. Potential Emissions:	4. Synthetically
95.2 lb/hour	417.1 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	totons/year
6. Emission Factor: 290 ppmvd at 10-percent	
Reference: BACT	Method Code:
8. Calculation of Emissions (limit to 600 chara	acters):
290 ppmvd x 45,853 dscfm x 60 min/hr x 2	2,116.8 lb _f /ft ² x 46/1,545 ft-lb _f /lb _m -°R = 95.2 lb/hr.
	=528
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
Allowable Emissions Allowable Emissions	1_ of1_
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
290 ppmvd @ 10 percent O ₂	95.2 lb/hour 417.1 tons/year
5. Method of Compliance (limit to 60 characte	<u> </u>
3. Method of Comphance (firm) to 60 characte	TS).
Annual stack test using EPA Method 7 or 7E.	•
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):
BACT	
DAOI	

Emissions Unit Information Section	3_	of _	3	No. 4 Lime Kiln
Pollutant Detail Information Page	5	of	7	Carbon Monoxide

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

1.	Pollutant Emitted:	2.	Tota	Percent Effi	ciency	y of Control:
	со					
3.	Potential Emissions: 13.8 lb/hour	60	0.4	tons/year	4.	Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:			4.	4 /-	
6	[] 1 [] 2 [] 3			to	tons/y	Emissions
0.	Emission Factor: 69 ppmvd at 10% O ₂				/ ·	Method Code:
	Reference: BACT					0
8.	Calculation of Emissions (limit to 600 chara-	cters):			
	60 ppmvd x 45,833 dscfm x 60 min/hr x 2,13.8 lb/hr.	116.8	lb _f /f	.² x 28/1,545	ft-lb _f /l	b _m -°R ÷ 528°R =
). 	Pollutant Potential/Fugitive Emissions Com		(11111	it to 200 onai		·
Al	owable Emissions Allowable Emissions	1	of_	1		
1.	Basis for Allowable Emissions Code: OTHER	2.		re Effective ssions:	Date o	of Allowable
3.	Requested Allowable Emissions and Units:	4.	Equ	ivalent Allov	vable :	Emissions:
	69 ppmvd at 10 percent O ₂			13.8 lb/hour		60.4 tons/year
5.	Method of Compliance (limit to 60 character	rs) :				
	Annual stack test using EPA Method 10					
6.	Allowable Emissions Comment (Desc. of Op	perat	ing N	Aethod) (limi	t to 20	00 characters):
	BACT.					

Emissions Unit Information Section 3 of 3 No. 4 Lime Kiln

Pollutant Detail Information Page 6 of 7 Volatile Organic Compound

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

1.	Pollutant Emitted:	2. Total Percent Efficient	ncy of Control:
	voc		
3.	Potential Emissions: 21.1 lb/hour	92.4 tons/year	4. Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:		
	[] 1 [] 2 [] 3	to ton	ns/year
6.	Emission Factor: 185 ppmvd @ 10 percent 0	O_2	7. Emissions
	Reference: BACT		Method Code: 0
8.	Calculation of Emissions (limit to 600 chara-	cters):	
	185 ppmvd x 45,833 dscfm x 60 min/hr x 2	116.8 lb./ft ² v 16/1.545.ft-	.lh./lh .ºR = 21.1 lh/hr
	100 ppmvu x 40,000 usom x 00 mm/m x 2	,, 110.0 lbpit X 10/1,040 it	ibpiom it 21.1 ib/iii.
		_ (528
		T	•
9.	Pollutant Potential/Fugitive Emissions Comm	ment (limit to 200 charact	ers):
	VOC reported as CH		
	VOC reported as CH₄.		
Al	lowable Emissions Allowable Emissions	1 of 1	
1.	Basis for Allowable Emissions Code:	2. Future Effective Date	te of Allowable
	OTHER	Emissions:	
3.	Requested Allowable Emissions and Units:	4. Equivalent Allowab	le Emissions:
	185 ppmvd @ 10 percent O ₂	21.1 lb/hour	92.4tons/year
5.	Method of Compliance (limit to 60 character	rs):	
	Annual stack test using EPA Method 25 or 25	A	
6.	Allowable Emissions Comment (Desc. of O	perating Method) (limit to	200 characters):
	BACT		

Emissions Unit Information Section	3	of	3	No. 4 Lime Kiln
Pollutant Detail Information Page	7	of	7	Total Reduced Sulfur

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
TRS	
3. Potential Emissions:	4. Synthetically
4.85 lb/hour	21.2 tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	to tomalyzon
[] 1 [] 2 [] 3 6. Emission Factor: 20 ppmvd @ 10 percent 0	tons/year 7. Emissions
	Method Code:
Reference: 62-296.404(3)(e)1.	0
8. Calculation of Emissions (limit to 600 char	acters):
20 ppmvd x 45,833 dscfm x 60 min/hr x 2	,116.8 lb _f /ft ² x 34/1,545 ft-lb _f /lb _m -°R = 21.1 lb/hr.
	, , , , , , , , , , , , , , , , , , ,
9. Pollutant Potential/Fugitive Emissions Con	ment (limit to 200 characters):
· ·	
TRS as HaS	
TRS as H₂S.	
TRS as H₂S.	
TRS as H₂S. <u>Allowable Emissions</u> Allowable Emissions	<u>1</u> of <u>1</u>
	1 of 1 2. Future Effective Date of Allowable
Allowable Emissions Allowable Emissions	
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE	Future Effective Date of Allowable Emissions:
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE 3. Requested Allowable Emissions and Units:	Equivalent Allowable Emissions: 4. Equivalent Allowable Emissions: 4.85 lb/hour 21.2 tons/year
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE 3. Requested Allowable Emissions and Units: 20 ppmvd @ 10 percent O ₂	Equivalent Allowable Emissions: 4. Equivalent Allowable Emissions: 4.85 lb/hour 21.2 tons/year ers):
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE 3. Requested Allowable Emissions and Units: 20 ppmvd @ 10 percent O ₂ 5. Method of Compliance (limit to 60 character)	2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: 4.85 lb/hour 21.2 tons/year ers): 6A.
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE 3. Requested Allowable Emissions and Units: 20 ppmvd @ 10 percent O ₂ 5. Method of Compliance (limit to 60 characte Annual stack test using EPA Method 16 or 1 6. Allowable Emissions Comment (Desc. of Compliance)	2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: 4.85 lb/hour 21.2 tons/year ers): 6A. perating Method) (limit to 200 characters):
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code: RULE 3. Requested Allowable Emissions and Units: 20 ppmvd @ 10 percent O ₂ 5. Method of Compliance (limit to 60 characte Annual stack test using EPA Method 16 or 1	2. Future Effective Date of Allowable Emissions: 4. Equivalent Allowable Emissions: 4.85 lb/hour 21.2 tons/year ers): 6A. perating Method) (limit to 200 characters):

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

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ons Limitation of
1.	Visible Emissions Subtype:	2. Basis for Allowable Opacity:
	VE20	[X] Rule [] Other
3.	Requested Allowable Opacity:	
		cceptional Conditions: %
	Maximum Period of Excess Opacity Allowe	ed: min/hour
4.	Method of Compliance:	
	•	
5.	Visible Emissions Comment (limit to 200 c	haracters):
	Due to moisture interference, the visible emi Rule 62-296.320(4) is not applicable and is de	
<u>C</u>		NITOR INFORMATION Subject to Continuous Monitoring) Monitor 1 of 2
l.	Parameter Code: EM	2. Pollutant(s): TRS
3.	CMS Requirement:	[X] Rule [] Other
4.		
	Manufacturer: Thermal Environmental In	
_	Model Number: Not available	Serial Number: Not available
5.	Installation Date: Dec 2000	6. Performance Specification Test Date:
7.	Continuous Monitor Comment (limit to 200) characters):
	Monitor information describes equipment in equipment as maintenance,	operation. GP reserves the right to replace this

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

<u>V 13</u>	sible Emissions Limitation: Visible Emission	ons Limitation	of
l.	Visible Emissions Subtype:	2. Basis for Allowabl	e Opacity:
		[] Rule	Other
3.	Requested Allowable Opacity:		
	Normal Conditions: % Ex	ceptional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:	min/hour
4.	Method of Compliance:		
5.	Visible Emissions Comment (limit to 200 cl	haracters):	
İ	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·
	I CONTINUOUS MO		
		NITOD INCODMATI	∩N:
		NITOR INFORMATI	
_	(Only Regulated Emissions Units	Subject to Continuous	s Monitoring)
<u>Co</u>		Subject to Continuous	s Monitoring)
	(Only Regulated Emissions Units	Subject to Continuous	s Monitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O ₂	Monitor 2 of 2 2. Pollutant(s):	s Monitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O ₂ CMS Requirement:	Subject to Continuous Monitor 2 of 2	s Monitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O ₂ CMS Requirement: Monitor Information:	Monitor 2 of 2 2. Pollutant(s): [X] Rule	s Monitoring)
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O ₂ CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Inc.	Monitor 2 of 2 2. Pollutant(s): [X] Rule	s Monitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Information: Serial	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available	s Monitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internation Model Number: 320B Serial Installation Date:	Monitor 2 of 2 2. Pollutant(s): [X] Rule	s Monitoring)
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internation Model Number: 320B Serial Installation Date: Dec 2000	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec	s Monitoring)
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internation Model Number: 320B Serial Installation Date:	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec	s Monitoring)
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental In: Model Number: 320B Serial Installation Date: Dec 2000 Continuous Monitor Comment (limit to 200)	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec	Monitoring) [] Other ification Test Date:
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internation Model Number: 320B Serial Installation Date: Dec 2000	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec characters):	Monitoring) [] Other ification Test Date:
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internal Model Number: 320B Serial Installation Date: Dec 2000 Continuous Monitor Comment (limit to 2000 Rule 62-296.404(5)(a). Monitor information of	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec characters):	Monitoring) [] Other ification Test Date:
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: O2 CMS Requirement: Monitor Information: Manufacturer: Thermal Environmental Internal Model Number: 320B Serial Installation Date: Dec 2000 Continuous Monitor Comment (limit to 2000 Rule 62-296.404(5)(a). Monitor information of	Monitor 2 of 2 2. Pollutant(s): [X] Rule strument, Inc. Number: Not available 6. Performance Spec characters):	Monitoring) [] Other ification Test Date:

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

Supplemental Requirements

1.	Process Flow Diagram
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID:[] Not Applicable [X] Waiver Requested
3.	Detailed Description of Control Equipment
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID:[] Not Applicable [X] 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
	[X] Attached, Document ID: Part B [] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10	. Supplemental Requirements Comment:

Em	encipai	Unit Ir	ıformation	Section
	119910119	viii ii	HUR HIMLIOH	Section

3	of	3
•	VI	•

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[] Phase II NO _x Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NO _x Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

PART B

SUPPLEMENTAL INFORMATION FOR CONSTRUCTION PERMIT APPLICATION

1.0 INTRODUCTION

Georgia-Pacific Corporation (G-P) operates a Kraft pulp and paper mill located in Palatka, Florida. The facility operates one recovery boiler, two smelt dissolving tanks, a lime kiln, as well as other equipment used in the pulp and paper production processes at the facility. The facility is currently operating under Title V permit no. 1070005-011-AV, issued January 29, 2002.

1

The G-P Palatka facility is a major source of hazardous air pollutants (HAPs) and is subject to U.S. Environmental Protection Agency's (EPA) final rule promulgated on January 12, 2001, to require maximum achievable control technology (MACT) on Kraft and soda pulp mill recovery furnaces, smelt dissolving tanks, lime kilns and calciners; sulfite recovery furnaces and fluidized bed combustors; and semi-chemical liquor combustors. This rule is commonly referred to as the MACT II regulation. The rule is codified in Title 40, Part 63, Subpart MM of the Code of Federal Regulations (CFR).

The MACT II emission limitations are summarized in Table 1. The MACT II regulations allow an alternative particulate matter (PM) limit to be established using a "bubble" over the regulated sources. G-P is proposing to utilize the bubble alternative for meeting the PM emission limitations of Subpart MM. The purpose of this application is to present G-P's proposed plan to meet the MACT II requirements.

This attachment contains two additional sections. A description of the proposed project, including air emission estimates, is presented in Section 2.0. The air quality review requirements and source applicability of the proposed project in relation to regulatory requirements are discussed in Section 3.0.

2.0 G-P'S PROPOSED BUBBLE PLAN FOR PARICULATE MATTER EMISSIONS

2.1 BACKGROUND

G-P operates a Kraft pulp and paper mill located in Palatka, Florida. The Mill consists of a batch digester system, multiple effect evaporator (MEE) system, condensate stripper system, recovery boiler and smelt dissolving tanks, lime kiln, tall oil plant, power boilers, and other equipment to produce finished paper products from virgin wood. The facility is currently operating under Title V permit no. 1070005-011-AV, issued January 29, 2002.

The affected MACT II sources at the G-P Mill consist of the No. 4 Recovery Boiler, the No. 4 Smelt Dissolving Tanks, and the No. 4 Lime Kiln. The MACT II PM emission limits applicable to these emissions units are as follows:

Emissions Unit	Particulate Matter Limit
No. 4 Recovery Boiler	0.044 gr/dscf @ 8% O ₂
No. 4 Smelt Dissolving Tanks	0.20 lb/ton BLS
No. 4 Lime Kiln	0.064 gr/dscf @ 10% O ₂

BLS = black liquor solids

gr/dscf = grains per dry standard cubic feet

Ref: 40 CFR 63.862(a)

However, G-P has the option to establish an alternative PM emission limit for each existing unit under a Mill-specific bubble (40 CFR 63.862(a)(1)(ii)). The use of the bubble requires demonstration by the applicant that the sum of the alternative emission limits for all affected sources will not exceed the sum of the individual PM emission limits for each source. The bubble can be utilized for all emission units operating more than 6,300 hours per year. Procedures for calculating the bubble limits are contained in 40 CFR 63.865(a).

2.2 BUBBLE PLAN

According to 40 CFR 63.865(a), the overall bubble limit is calculated in terms of pounds of PM per ton (lb/ton) of black liquor solids (BLS) fired in the recovery system. To determine the overall PM limit, the PM limits for the individual emissions units must be determined. The individual PM limits for recovery furnaces and lime kilns are calculated by using the volumetric gas flow out the stack, corrected to the appropriate oxygen content, and using the grain loadings, as listed in Section 2.1 (0.044 gr/dscf at 8 percent O₂ for recovery furnaces and 0.064 gr/dscf at 10 percent O₂ for lime kilns). For smelt dissolving tanks, the individual PM limit is calculated based on the BLS firing rate to the recovery system and a factor of 0.20 lb/ton BLS.

For the G-P Mill sources, the maximum volumetric flow rates to be used in the bubble calculation were determined be examining the last 5 years of stack test data. These data are presented in Table 2. As shown, there is year-to-year variability in the flow rates. In order to establish a maximum expected flow rate for each source, the 95 percent confidence level was determined. As shown, the estimated maximum flow rate for the No. 4 Recovery Boiler is 325,677 dry standard cubic feet per

minute (dscfm) at 8 percent O₂. The estimated maximum flow rate for the No. 4 Lime Kiln is 45,853 dscfm at 10 percent O₂.

The calculated MACT II PM bubble limit for the G-P Mill is presented in Table 3. As shown, the bubble limit for PM is calculated to be 1.61 lbs/ton BLS.

G-P proposes to meet the overall PM limit by limiting the individual sources to the limits shown in Table 3. For the No. 4 Recovery Boiler, the proposed individual PM limit is 0.030 gr/dscf at 8 percent O₂. This grain loading is the same as in the current Title V permit for the G-P Mill.

For the No. 4 Smelt Dissolving Tanks, the proposed individual limit is 0.12 lb/ton BLS. This limit is also the same as in the current Title V permit for the G-P Mill.

For the No. 4 Lime Kiln, the proposed individual PM limit is 0.081 gr/dscf at 10 percent O₂. This grain loading is also the same as in the current Title V permit for the G-P Mill.

As shown in Table 3, these individual PM limits will result in an overall PM limit of 1.22 lb/ton BLS, which is lower than the calculated bubble limit of 1.61 lb/ton BLS. Therefore, the requirements of 63.865(a) will be met by G-P.

3.0 RELATION TO OTHER REGULATORY REQUIREMENTS

3.1 PREVIOUS BACT EMISSION LIMITS

The No. 4 Recovery Boiler, No. 4 Smelt Dissolving Tanks, and the No. 4 Lime Kiln emission units were previously subject to prevention of significant deterioration (PSD) review, and underwent best available control technology (BACT) analysis. The BACT emission limits for PM, established during the PSD review process, are compared to the proposed bubble limits in Table 3. The associated air flow rates used in the PSD permitting process are also shown (294,000 dscfm for the Recovery Boiler, and 37,400 dscfm for the Lime Kiln).

As shown, the previous BACT limits for the recovery boiler and the lime kiln were set on the basis of grain loading. G-P is not proposing to change the grain loading limits established as BACT. However, the associated hourly emission rates are higher due to the higher air flow rates now experienced by the Recovery Boiler and Lime Kiln. For this reason, G-P is also requesting that the

previous PSD permits be modified to reflect the higher hourly PM emission rates for the No. 4 Recovery Boiler and the No. 4 Lime Kiln.

G-P is not requesting any change to the No. 4 Smelt Dissolving Tanks BACT emission rate for PM.

3.2 OTHER SUBPART MM REQUIREMENTS

Subpart MM establishes emission standards, and requirements for monitoring, performance tests, recordkeeping and reporting for all affected sources. The requirements in Subpart MM must be complied with by March 13, 2004. These requirements are discussed in the following sections.

Subpart MM establishes emission standards for HAP metals and gaseous organic HAPs. Subpart MM regulates PM emissions as a surrogate parameter for HAPs. Method 5 or 29 in Appendix A of 40 CFR 60 must be used to determine compliance with this emission standard. No standards for gaseous organic HAP emissions from existing sources were established in Subpart MM.

Under Subpart MM, any recovery boiler, lime kiln, or smelt dissolving tank that is equipped with a wet scrubber (*i.e.*, No. 4 Smelt Dissolving Tanks and No. 4 Lime Kiln) must be equipped with a continuous monitoring system that can be used to determine and record the pressure drop across the scrubber and the scrubbing liquid flow rate at least once every successive 15-minute period. The monitoring device used to continuously monitor the pressure drop across the scrubber must be certified by the manufacturer to be accurate within a gauge pressure of ±500 pascals. The continuous monitoring device used to monitor the scrubber flow rate must be certified by the manufacturer to be accurate within ±5 percent of the design scrubbing liquid flow rate. As required by Subpart MM, initial performance tests will be conducted to determine compliance. During these initial performance tests, the operating range for the monitored parameters will be established.

Recovery boilers or lime kilns equipped with an electrostatic precipitator (ESP) control device (*i.e.*, No. 4 Recovery Boiler) must install a continuous opacity monitoring system. The system must determine opacity at least once every successive 10-second period and calculate and record each successive 6-minute average opacity.

Under Subpart MM, G-P is required to develop and implement a startup, shutdown, and malfunction (SSM) plan. This plan will contain the specific procedures to be followed for operating and maintaining the sources during periods of startup, shutdown, and malfunction. The plan also needs to

include a program for corrective action for malfunctioning control systems used to comply with the standards of Subpart MM. The plan must also include procedures for responding to any process parameter that is inconsistent with previously established operating ranges. This includes procedures to determine and record the cause of the exceedance, the time that the exceedance began and ended, and corrective actions to be taken. Maintenance and inspection schedules must also be included in the startup, shutdown, and malfunction plan.

Following the compliance date, owners or operators of all affected sources are required to implement corrective action as specified in the startup, shutdown, and malfunction plan when any 3-hour average parameter value is outside the established operating range. Records must be maintained of any occurrence when corrective action is required.

The following records are also required for sources affected by Subpart MM standards:

- Records of parameter monitoring data, including any time that the operating parameters
 were inconsistent with established operating ranges with brief explanations of the cause, the
 time the deviation occurred, the corrective action taken, and the time corrective action was
 initiated and completed;
- Records and documentation of supporting calculations made for compliance determinations;
 and
- Records of monitoring parameter ranges established for each affected source.

As required by Subpart MM, G-P is subject to certain notification requirements of 40 CFR 63, Subpart A. These requirements include an initial notification to the enforcement authority. This notification must include the following information:

- The name and address of the owner or operator;
- The physical address of the affected source;
- Identification of the applicable standard and the source's compliance date;
- A brief description of the nature, size, design and method of operation of the source, including design capacity and identification of the HAP emission point(s); and
- A statement of whether the source is a major source or an area source.

The initial notification for the G-P mill was previously submitted to the Florida Department of Environmental Protection. Notification of performance tests 60 days prior to the testing, continuous monitoring performance evaluations, and compliance status are also required under Subpart A.

continuous monitoring performance evaluations, and compliance status are also required under Subpart A.

In addition to the reporting requirements of Subpart A, G-P is required to submit an excess emissions report on a quarterly basis for any 3-hour average parameter that is outside of the established operational range. If no exceedance occurred during the reporting period, then a semi-annual report stating that no exceedance occurred must be submitted.

As part of this project, G-P will implement the appropriate systems and procedures to comply with all Subpart MM standards by March 13, 2004. All required records will be maintained and reports will be submitted in a timely manner as required to maintain compliance.

Table 1. Emission Limits for Existing Kraft and Soda Mills, Georgia-Pacific Corp., Palatka Mill

Source Type	Particulate Matter		Gaseous Organics	
Kraft and soda recovery furnace				
Existing	0.044	gr/dscf @8 % O2	No limits	
New	0.015	gr/dscf @8 % O2	0.025 lb/ton BLS	
Smelt dissolving tank				
Existing	0.2	lb/ton BLS	No limit	
New	0.12	lb/ton BLS	No limit	
Lime Kiln				
Existing	0.064	dscf @10% O2	No limit	
New	0.01	dscf@10% O2	No limit	
Sulfite recovery unit				
Existing	0.04	gr/dscf @8 % O2	Covered by MACT I	
New	0.02	gr/dscf @8 % O2	Covered by MACT I	
Semi-chemical unit				
Existing and New		No limit	2.97 lb/ton BLS or	
			90% reduction	

Source: 40 CFR 63, Subpart MM.

Table 2. Volumetric Air Flow During Compliance Stack Tests, Georgia-Pacific, Palatka Florida

Compliance	No. 4 I	No. 4 Recovery Boiler			No. 4 Lime Kiln			
Test Date			dscfm @			dscfm		
	dscfm	% O ₂	8% O ₂	dscfm	% O ₂	@10% O ₂		
1998	190,000	3.30	258,692	27,000	6.50	35,591		
1999	190,000	4.00	248,462	29,000	6.50	38,227		
2000	240,167	4.59	303,165	34,862	7.55	42,627		
2001	218,991	4.30	281,319	34,086	7.00	43,383		
2002	216,429	4.90	268,039	29,399	6.60	38,486		
2003	242,261	4.50	307,485	35,302	8.20	41,079		
Mean			277,860			39,899		
Standard deviat	ion		23,908			2,977		
95% C . L.ª			325,677			45,853		

Note: dscfm = dry standard cubic feet per minute

^a 95% C. L. = 95 percent confidence level value = Mean + (Std. Dev. x 2)

Table 3. Proposed MACT II Bubble Limits for PM, Georgia-Pacific, Palatka, Florida

Emission Unit	Limit	Activity Factor	Equivalent	PM Emissions
			lb/hr	lb/ton BLS ^b
	<u>PM M</u>	ACT II Limits ^a		
No. 4 Recovery Boiler	0.044 gr/dscf @ 8% O_2	325,677 dscfm	122.83	1.17
No. 4 Smelt Dissolving Tanks	0.20 lb/ton BLS	105 tons/hr BLS	21.00	0.20
No. 4 Lime Kiln	0.064 gr/dscf @ 10% O_2	45,853 dscfm	25.15	0.24
Total		-	168.98	1.61
		sed Bubble Limits ^a		
No. 4 Recovery Boiler	0.030 gr/dscf @ 8% O ₂	325,677 dscfm	83.75	0.80
No. 4 Smelt Dissolving Tanks	0.12 lb/ton BLS	105 tons/hr BLS	12.60	0.12
No. 4 Lime Kiln	0.081 gr/dscf @ 10% O_2	45,853 dscfm	31.84	0.30
Total		-	128.18	1.22
	<u>E</u>	SACT Limits ^c		
No. 4 Recovery Boiler	0.030 gr/dscf @ 8% O_2	294,000 dscfm	75.6	0.72
No. 4 Smelt Dissolving Tanks	0.12 lb/ton BLS	105 tons/hr BLS	12.6	0.12
No. 4 Lime Kiln	0.081 gr/dscf @ 10% O_2	37,400 dscfm	26.0	0.25
Total		-	114.17	1.09

^a Activity factors for the No. 4 Recovery Boiler and the No. 4 Lime Kiln reflect proposed revision to the maximum volumetric flow rate for these units.

^b Black liquor solids (BLS) rate is based on the permit limit of 210,000 lb/hr BLS for the No. 4 Recovery Boiler.

^c Based on: No. 4 Recovery Boiler: permit No. AC54-266676/PSD-FL-226, dated Sep. 21, 1995.

No. 4 Smelt Dissolving Tanks: permit No. AC54-193841/PSD-FL-171, dated June 7, 1991.

No. 4 Lime Kiln: permit No. AC54-192551/PSD-FL-171, dated June 7, 1991.