### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 9654A, PSD-TX-684M2, PSD-TX-833M2, and N-60M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
1A	No. 1 Recovery Furnace		PM/PM <sub>10</sub>	56.00	247.00
	-		VOC	50.00	217.00
			$NO_x$	95.00	416.10
			SO <sub>2</sub>	915.70	1372.00
			CO	1375.00	6023.00
			TRS	24.00	41.00
1B	No. 2 Recovery Furnace		PM/PM <sub>10</sub>	56.00	247.00
		VOC	50.00	217.00	
			$NO_x$	95.00	416.10
			SO <sub>2</sub>	915.70	1372.00
			CO	1375.00	6023.00
			TRS	24.00	41.00
2	Bark Boiler		$PM_{10}$	37.42	163.90
		VOC*		9.09	39.81
			NO <sub>x</sub> ***	88.54	387.80
			SO <sub>2</sub>	16.20	18.73
			CO***	213.86	936.70

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
		TRS	2.29	10.04	
		NH <sub>3</sub>	16.16	70.86	
2A	No. 1 PFI Boiler		PM <sub>10</sub>	3.00	13.00
		VOC	10.00	44.00	
			$NO_x$	49.83	218.26
			SO <sub>2</sub>	5.00	22.00
			CO	70.00	307.00
3	No. 1 Dissolving Topk		DM	6.00	30.00
3	No. 1 Dissolving Tank	VOC	PM <sub>10</sub> 17.93	6.90 50.12	30.00
		VOC	SO <sub>2</sub>	2.10	9.20
			TRS	0.60	2.50
			11.0	0.00	2.50
4	No. 2 Dissolving Tank		$PM_{10}$	6.90	30.00
		VOC	17.93	50.12	
			$SO_2$	2.10	9.20
			TRS	0.60	2.50
10	No. 1 Slaker		PM <sub>10</sub>	2.00	8.60
			VOC	0.48	1.33
11	Lime Kiln		PM <sub>10</sub>	30.00	131.00
		VOC	4.78	21.03	
			$NO_x$	42.00	182.00
			$SO_2$	57.95	84.33
			CO	337.00	1,474.00
			TRS	6.41	11.21
13	No. 2 Slaker		$PM_{10}$	2.00	8.60
			VOC	0.48	1.33
16	Brown Stock Washer A		VOC	55.59	16.68
			TRS	0.47	0.14

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
17	Brown Stock Washer B	VOC TRS	55.59 0.47	188.60 1.59
32	Turpentine Storage Tank	VOC	<0.01	0.02
36	No. 5 White Liquor Tank Vent	TRS	<0.01	0.02
39	South Mud Tank	VOC	0.02	0.06
40	North Mud Tank	VOC	0.02	0.06
41	Weak Wash Storage Tank	VOC	0.22	0.96
42	Hot Water Storage Tank	VOC	0.00	0.00
43	New White Liquor Storage Tank	VOC	0.57	1.59
44	Scrubber Water Clarifier	VOC	0.09	0.24
45	No. 1 White Liquor Storage Tank	VOC	0.57	1.59
46	No. 2 White Liquor Storage Tank	VOC	0.57	1.59
47	No. 1 Green Liquor Clarifier	VOC	0.02	0.05
48	No. 1 Green Liquor Storage Tank	VOC TRS	0.96 0.01	4.02 0.03
49	No. 2 Green Liquor Storage Tank	VOC TRS	0.02 0.01	0.05 0.05

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
50	Green Liquor Equalization Tank	VOC	0.03	0.09
51	No. 2 Green Liquor Clarifier	VOC	1.84	8.04
63	No. 1 Weak Black Liquor Storage Tank	VOC TRS	0.38 1.30	1.34 5.60
64	No. 2 Weak Black Liquor Storage Tank	VOC TRS	0.38 1.30	1.34 5.60
65	Weak Black Liquor Swing Tank	VOC TRS	0.11 1.30	0.40 5.60
66	No. 1 Heavy Black Liquor Storage Tank	VOC TRS	0.32 0.13	1.38 0.58
67	No. 2 Heavy Black Liquor Storage Tank	VOC TRS	0.31 0.13	1.38 0.58
68	Boilout Tank	VOC TRS	0.31 0.50	1.34 2.20
72	Gasoline Tank	VOC	-	0.20
73	No. 2 Fuel Oil Tank	VOC	-	0.20
74	Black Liquor Pond	TRS	-	3.20
80	Wood Yard (4)	$PM_{10}$	-	3.80
81	Truck Traffic Fugitives	$PM_{10}$	-	130.00
99	No. 3 Power Boiler	$PM_{10}$ VOC $NO_x$	3.13 2.26 21.0	13.71 9.92 91.98

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant <u>Emission Rates</u>		Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
			SO <sub>2</sub>	0.25	1.09
			СО	37.8	165.56
100	Chemi-Washer (4)		VOC	0.09	0.40
			TRS	<0.01	<0.01
101-130	No. 1 Linerboard Machine		VOC	91.32	399.98
		TRS	0.80	3.48	
132-158	No. 2 Linerboard Machine		VOC	53.21	233.06
		TRS	0.47	2.03	
159-166	Secondary Fiber System		VOC	0.44	1.92
192	Lime Kiln Precoat Filter		VOC	0.83	3.63
		TRS	0.02	0.07	
193	Precoat Filter Vacuum Pump			0.33	1.46
		TRS	0.02	0.08	
194	Precoat Filter Vacuum Pump		VOC	0.33	1.46
		TRS	0.02	0.08	
205	No. 4 White Liquor Storage Tank		VOC	0.57	1.59
210	Black Liquor Storage East		VOC	0.38	1.34
211	Black Liquor Storage West		VOC	0.38	1.34
212	Black Liquor Storage Center		VOC	0.38	1.34
58**	Reject Tank		VOC	0.62	2.73
		TRS	0.01	0.53	
235	Liquor Loading		VOC	1.49	1.62

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#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
		TRS	0.13	0.21	
93	Primary Sludge Pond (4)	TRS	VOC 0.08	0.14 0.27	0.50
94	Primary Sludge Landfill (4)	TRS	VOC 0.08	0.14 0.27	0.50
95	Primary Clarifier (4)	TRS	VOC 0.34	0.62 1.48	2.72
96	Strong Waste Pond (4)	TRS	VOC 17.74	32.76 3.24	5.98
97	Aeration Pond (4)	TRS	VOC 2.91	5.37 8.49	15.68
98	Holding Pond (4)	TRS	VOC 1.92	3.55 5.26	9.72
232	Green Liquor Dregs Filter and Vacuum Pump (4)		VOC TRS	1.84 0.01	8.04 0.05
NCG-FUG 1	Switching LVHC and HVLC NCG Venting for Bypass at Preventive Maintenance (4		VOC Acetone TRS	145.00 2.40 0.06	0.25 0.02 <0.01

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from a plot plan.

 $NO_x$  - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

<sup>(2)</sup> Specific point source names. For fugitive sources use area name or fugitive source name.

<sup>(3)</sup> PM - particulate matter, suspended in the atmosphere, include  $PM_{10}$ 

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

CO - carbon monoxide TRS - total reduced sulfur

NH<sub>3</sub> - ammonia

- (4) Fugitive emissions are an estimate only.
- (5) Emissions resulting from re-routing non-condensible gases between combustion sources (Lime Kiln and Bark Boiler).
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year 8,760 Hrs/year

\*\* Emissions based on the following:

See Special Condition Nos. 1 and 22.

All annual emissions are based on a rolling 12-month period and a maximum annual averaged throughput of <u>2,340</u> tons per day of air dry pulp. All hourly emissions, unless otherwise noted, are derived from the maximum annual average throughput of 2,340 tons per day of air dry pulp or other related throughput limits represented in the permit.

\*\*\* Emission limits for these pollutants from the Bark Boiler based on a 30-day rolling average.

Dated February 23, 2007