EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission R	ates *
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	Α	ir Contaminant	<u>Emissio</u>	Emission Rates *	
Point No. (1)	No. (1) Name (2)			lb/hr	TPY	
1A	No. 1 Recovery Furnace		PM/PM ₁₀	56.00	247.00	
			VOC	50.00	217.00	
			NO_x	96.72	416.10	
2	Bark Boiler		PM_{10}	37.42	163.90	
		VOC***		9.09	39.81	
			NO _x ***	88.58	387.80	
			SO_2	16.21	18.73	
			CO***	213.86	936.70	
		TRS	2.29	10.04		
		NH_3	16.16	70.86		
2A	No. 1 PFI Boiler		PM ₁₀	3.00	13.00	
	. 10. 2 200.	VOC	10.00	44.00	20.00	
			NO _x	55.53	219.70	
			SO ₂	5.71	22.18	
			CO	70.00	307.00	

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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
3	No. 1 Dissolving Tank		PM_{10}	6.90	30.00
	-	VOC	17.93	50.12	
			SO_2	2.10	9.20
			TRS	0.60	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 ₁₀	2.00	8.60
			VOC	0.48	1.33
11	Lime Kiln		PM_{10}	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
17	Brown Stock Washer B		VOC	55.59	188.60
			TRS	0.47	1.59
22	Turnontino Storago Tonk		V0C	<0.01	0.02
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

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	Air Contaminant <u>Emission Rate</u>		Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
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
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	VOC	0.38	1.34

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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 _
	Storage Tank	TRS	1.30	5.60
65	Weak Black Liquor	VOC	0.11	0.40
	Swing Tank	TRS	1.30	5.60
66	No. 1 Heavy Black	VOC	0.32	1.38
	Liquor Storage Tank	TRS	0.13	0.58
67	No. 2 Heavy Black	VOC	0.31	1.38
	Liquor Storage Tank	TRS	0.13	0.58
68	Boilout Tank	VOC	0.31	1.34
		TRS	0.50	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}	3.13	13.71
		VOC	2.26	9.92
		NO _x	26.81	93.55
		SO ₂	1.67	1.47
		СО	37.80	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	

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission	Source	А	ir Contaminant	Emission	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY _
132-158	No. 2 Linerboard Machine	TRS	VOC 0.47	53.21 2.03	233.06
		1113	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	5.00
	_				
193	Precoat Filter Vacuum Pump			0.33	1.46
		TRS	0.02	0.08	
194	Precoat Filter Vacuum Pump	East	VOC	0.33	1.46
	·	TRS	0.02	0.08	
005	N. A. M. Maritan I. in an a Ottoman		1/00	0.57	4.50
205	No. 4 White Liquor Storage Tank		VOC	0.57	1.59
	TAIR				
210	Black Liquor Storage East		VOC	0.38	1.34
211	Diode Liquer Starogo West		V00	0.00	1 24
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
30	reject rank	TRS	0.01	0.53	2.75
235	Liquor Loading	TDO	VOC	1.49	1.62
		TRS	0.13	0.21	
93	Primary Sludge Pond (4)		VOC	0.14	0.50
	, ,	TRS	0.08	0.27	
0.4	Duimon Chadao Londfill (4)		V00	0.14	0.50
94	Primary Sludge Landfill (4)	TRS	VOC 0.08	0.14 0.27	0.50
		1110	0.00	0.21	
95	Primary Clarifier (4)		VOC	0.62	2.72

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		TRS	0.34	1.48	
96	Strong Waste Pond (4)		VOC	32.76	5.98
		TRS	17.74	3.24	
97	Aeration Pond (4)		VOC	5.37	15.68
	()	TRS	2.91	8.49	
98	Holding Pond (4)		VOC	3.55	9.72
		TRS	1.92	5.26	
232	Green Liquor Dregs Filter		VOC	1.84	8.04
	and Vacuum Pump (4)		TRS	0.01	0.05
NCG-FUG 1	Switching LVHC and HVLC		VOC	145.00	0.25
	NCG Venting for Bypass an	ıd	Acetone	2.40	0.02
	Preventive Maintenance (4)		TRS	0.06	<0.01
P-VBURNER	Propane Vaporizer Burner		PM_{10}	0.12	0.03
		VOC	0.06	0.02	
		NO_x	3.73	0.97	
		SO_2	0.10	0.03	
		CO	0.63	0.16	
NCG-FUG 1	and Vacuum Pump (4) Switching LVHC and HVLC NCG Venting for Bypass an Preventive Maintenance (4)	VOC NO _x SO ₂	TRS VOC Acetone TRS PM ₁₀ 0.06 3.73 0.10	0.01 145.00 2.40 0.06 0.12 0.02 0.97 0.03	0.05 0.25 0.02 <0.01

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

⁽²⁾ Specific point source names. For fugitive sources use area name or fugitive source name.

⁽³⁾ PM - particulate matter, suspended in the atmosphere, include PM₁₀

 PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

particulate matter greater than 10 microns is emitted.

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

NO_x total oxides of nitrogen

SO₂ sulfur dioxide CO - carbon monoxide TRS total reduced sulfur

NH₃ 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 May 1, 2007