

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

20365/PSD-TX-785M-2

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
11-2	No. 2 Bleach Plant Scrubber Stack		Cl2		2.80	12.30
			ClO2		0.50	2.20
70	No. 4 Bleach Plant Scrubber Stack		Cl2		1.60	7.00
			ClO2		0.14	0.60
71	No. 4 Bleach Plant Diffusion Washer Stack		Cl2		1.60	7.00
			ClO2		0.14	0.60
19	Bulk Starch Unloading		PM10		0.01	0.02
12	East Tall Oil Reactor Stack		VOC		0.05	0.21
			TRS		0.01	0.04
40	West Tall Oil Reactor Stack		VOC		0.05	0.21
			TRS		0.01	0.04
5a	No. 2 Smelt Dissolve Tank Vent		PM10		4.00	17.50
			TRS		1.20	5.25
			SO2		5.00	21.90
5b	No. 3 Smelt Dissolve Tank Vent		PM10		4.00	17.50
			TRS		1.20	5.25
			SO2		5.00	21.90
2	No. 2 Recovery Boiler		PM10		60.00	262.80
			VOC		8.00	35.00
			NOx		62.78	275.00
			SO2		495.00	1510.00
			CO		251.37	1101.00
			H2SO4		5.00	21.90
			TRS		16.00	70.10

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3	No. 3 Recovery Boiler North	PM10	38.90	168.19
		VOC	4.00	17.50
		NOx	30.00	131.40
		SO2	39.38	172.50
		CO	52.75	231.04
		H2SO4	2.50	10.95
		TRS	16.00	70.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u>	
				TPY	
4	No. 3 Recovery Boiler South	PM10	38.40	168.19	
		VOC	4.00	17.50	
		NOx	30.00	131.40	
		SO2	39.38	172.50	
		CO	52.75	231.04	
		H2SO4	2.50	10.95	
		TRS	16.00	70.10	
26	No. 4 Recovery Boiler & Smelt Dissolve Tank	PM10	50.00	219.00	
		VOC	16.60	72.83	
		NOx	159.30	697.91	
		SO2	121.90	534.17	
		CO	242.50	1062.03	
		H2SO4	2.40	10.05	
		TRS	8.29	36.31	
60	NCG Incinerator	NOx	0.70	3.10	
		SO2	4.50	19.71	
		CO	0.46	2.00	
		VOC	0.10	0.44	
		TRS	0.10	0.44	
1a	No. 1 Power Boiler	PM10	1.14	5.01	
		NOx	34.36	150.50	
		SO2	0.14	0.60	
		CO	9.14	40.03	
		VOC	0.32	1.40	
1	No. 2 Power Boiler	PM10	55.00	240.90	
		VOC	20.00	87.60	
		NOx	268.00	1173.80	
		SO2	2.30	10.10	
		CO	190.00	832.20	
50	No. 6 Power Boiler	PM10	72.00	315.36	
		NOx	190.40	823.00	
		SO2	0.20	0.88	
		CO	360.00	1555.00	

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		VOC	23.20	100.00
14	No. 1 Slaker Stack (4)	PM10	1.37	6.00
15	No. 2 Slaker Stack (4)	PM10	1.37	6.00

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16	No. 3 Slaker Stack (4)	PM10	1.37	6.00	
16-A	No. 4 Slaker Stack (4)	PM10	1.37	6.00	
43	No. 1 Lime Kiln Stack	PM10	10.00	43.80	
		VOC	0.07	0.30	
		NOx	48.00	206.00	
		SO2	11.40	49.00	
		CO	170.00	729.00	
		TRS	1.76	7.70	
9	No. 3 Lime Kiln Stack	PM10	7.23	31.01	
		VOC	0.07	0.31	
		NOx	27.39	119.96	
		SO2	12.50	54.80	
		CO	180.00	788.40	
		TRS	1.89	8.27	
7	No. 4 Lime Kiln Stack	PM10	6.92	30.29	
		VOC	8.01	35.10	
		NOx	29.77	130.40	
		SO2	7.14	31.28	
		CO	36.23	158.70	
		TRS	0.95	4.16	
48	Fresh Lime Handling (4) System	PM10	0.07	0.30	
90	No. 5 Paper Machine	PM10	0.06	0.27	
		NOx	3.19	13.97	
		SO2	0.01	0.03	
		CO	0.49	2.16	
		VOC	0.02	0.08	
1F	Road Dust	TSP	21.66		
		PM10	10.83		

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

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

(3) TSP - particulate matter including PM10.

PM10 - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

CO - carbon monoxide

TRS - total reduced sulfur

Cl2 - chlorine

ClO2 - chlorine dioxide

H2SO4 - sulfuric acid

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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

Revised _____