

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 20365 and PSD-TX-785M5

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 Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
11	No. 2 Bleach Plant ClO <sub>2</sub> Scrubber Stack	ClO <sub>2</sub>	0.01	0.04
70	No. 4 Bleach Plant Scrubber Stack	Cl <sub>2</sub> ClO <sub>2</sub>	1.60 0.14	7.00 0.60
71	No. 4 Bleach Plant Diffusion Washer Stack	Cl <sub>2</sub> ClO <sub>2</sub>	1.60 0.14	7.00 0.60
72	Monox-L Mixer Scrubber Vent <0.01		Cl <sub>2</sub>	<0.01
73	No. 5 Bleach Plant Diffusion Washer (E/O) Stack	VOC	2.33	10.20
74	No. 5 Bleach Plant Diffusion Washer (P) Stack	VOC	0.23	1.00
75	No. 5 Bleach Plant Scrubber Stack	VOC ClO <sub>2</sub> Cl <sub>2</sub>	2.33 0.90 0.04	10.20 3.94 0.18
77	No. IV Diffusion Washer Vent	VOC	26.70	117.10
78	No. V Diffusion Washer Vent	VOC	37.40	164.00
19A	No. 1 Bulk Starch Unloading Vent	TSP PM <sub>10</sub>	0.01 0.01	0.04 0.04

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
19B	No. 2 Bulk Starch Unloading Vent	TSP PM <sub>10</sub>	0.01 0.01	0.04 0.04

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
19C	No. 3 Bulk Starch Unloading Vent	TSP	0.01	0.04
		PM <sub>10</sub>	0.01	0.04
5a	No. 2 Smelt Dissolve Tank Vent	TSP	4.70	20.70
		PM <sub>10</sub>	4.70	20.70
	TRS	NO <sub>x</sub>	1.20	5.10
			1.20	5.25
		VOC	2.20	9.60
		SO <sub>2</sub>	5.00	21.90
5b	No. 3 Smelt Dissolve Tank Vent	TSP	5.70	24.80
		PM <sub>10</sub>	5.70	24.80
	TRS	NO <sub>x</sub>	1.70	7.30
			1.70	7.40
		VOC	3.10	13.60
		SO <sub>2</sub>	6.70	29.20
2	No. 2 Recovery Boiler Stack 262.80 PM <sub>10</sub>	TSP		60.00
		60.00	262.80	
		VOC	8.00	35.00
		NO <sub>x</sub>	62.78	275.00
		SO <sub>2</sub>	308.40	1350.60
		CO	251.37	1101.00
		H <sub>2</sub> SO <sub>4</sub>	5.50	24.10
		TRS	10.90	47.80
3	No. 3 Recovery Boiler North Stack	Fluorides	0.12	0.60
		TSP	13.50	59.10
		PM <sub>10</sub>	13.50	59.10
		VOC	7.00	30.00
		NO <sub>x</sub>	43.00	188.30
		SO <sub>2</sub>	37.49	163.70
		CO	81.80	358.10

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		H <sub>2</sub> SO <sub>4</sub>	4.00	17.60
		TRS	2.00	8.70
		Fluorides	0.06	0.30

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4	No. 3 Recovery Boiler South Stack	TSP	13.50	59.10
		PM <sub>10</sub>	13.50	59.10
		VOC	7.00	30.00
		NO <sub>x</sub>	43.00	188.30
		SO <sub>2</sub>	37.49	163.70
		CO	81.80	358.10
		H <sub>2</sub> SO <sub>4</sub>	4.00	17.60
		TRS	2.00	8.70
		Fluorides	0.06	0.30
26	No. 4 Recovery Boiler and 219.00 Smelt Dissolve Tank Stack 219.00	TSP		50.00
		PM <sub>10</sub>		50.00
		VOC	17.90	78.40
		NO <sub>x</sub>	171.60	751.60
		SO <sub>2</sub>	119.40	522.90
		CO	261.10	1143.80
		H <sub>2</sub> SO <sub>4</sub>	12.80	56.00
		TRS	6.30	27.80
		Fluorides	0.30	1.30
60	No. 1 NCG Incinerator Stack 9.40	TSP		2.10
		PM <sub>10</sub>	9.40	
	NO <sub>x</sub>	2.20	9.80	
		SO <sub>2</sub>	19.10	83.60
		CO	14.90	65.20
		VOC	0.10	0.50
		TRS	0.20	0.74
61	No. 2 NCG Incinerator Stack 9.40	TSP		2.10
	PM <sub>10</sub>	2.10	9.40	

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		NO <sub>x</sub>	0.98	4.30
		SO <sub>2</sub> 5.48	24.00	
		CO	6.50	28.50
		VOC	0.30	1.31
		TRS	0.09	0.40

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	No. 1 Power Boiler Stack	TSP	1.14	5.01
	PM <sub>10</sub>	1.14	5.01	
		NO <sub>x</sub>	34.36	150.50
		SO <sub>2</sub>	0.14	0.60
		CO	56.85	249.00
		VOC	0.32	1.40
2	No. 2 Power Boiler Stack	TSP	55.00	240.90
	PM <sub>10</sub>	55.00	240.90	
		VOC	20.00	87.60
		NO <sub>x</sub>	268.00	1173.80
		SO <sub>2</sub>	2.30	10.10
		CO	190.00	832.20
50	No. 6 Power Boiler Stack	TSP	72.00	315.36
	PM <sub>10</sub>	72.00	315.36	
		NO <sub>x</sub>	190.40	834.00
		SO <sub>2</sub>	0.20	0.88
		CO	360.00	1576.80
		VOC	23.20	100.00
51	No. 5 Power Boiler Stack	TSP	1.63	7.14
	PM <sub>10</sub>	1.63	7.14	
		NO <sub>x</sub>	16.94	74.20
		SO <sub>2</sub>	0.20	0.88
		CO	30.50	133.59
		VOC	3.07	13.45
13	No. 4 Slaker Stack (4)	TSP	1.37	6.00
	PM <sub>10</sub>	1.37	6.00	
14	No. 1 Slaker Stack (4)	TSP	1.37	6.00
	PM <sub>10</sub>	1.37	6.00	

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
16-A	No. 7 Slaker Stack (4)	TSP	1.37	6.00
		PM <sub>10</sub> 1.37	6.00	



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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
43	No. 1 Lime Kiln Stack	TSP	10.00	43.80
		PM <sub>10</sub>	10.00	43.80
		VOC	0.07	0.30
		NO <sub>x</sub>	15.87	69.50
		SO <sub>2</sub>	3.79	16.60
		CO	19.34	84.70
		TRS	0.53	2.30
9	No. 3 Lime Kiln Stack	TSP	7.23	31.10
		PM <sub>10</sub>	7.23	31.10
		VOC	0.07	0.31
		NO <sub>x</sub>	20.64	90.40
		SO <sub>2</sub>	4.93	21.60
		CO	25.11	110.00
		TRS	0.71	3.10
7	No. 4 Lime Kiln Stack	TSP	6.92	30.29
		PM <sub>10</sub>	6.92	30.29
		VOC	8.01	35.10
		NO <sub>x</sub>	29.77	130.40
		SO <sub>2</sub>	7.14	31.28
		CO	36.23	158.70
		TRS	0.95	4.16
48	Fresh Lime Handling (4)	TSP	0.07	0.30
	System, including:	PM <sub>10</sub>	0.07	0.30
48a	Fresh Lime Silo No. 1 Vent Filter			
48b	Fugitive Dust Pickup Filter			
48c	Fresh Lime Silo No. 4 Vent Filter			

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
90	No. 5 Paper Machine Vents		TSP	0.06
	0.27			
	PM <sub>10</sub>	0.06	0.27	
		NO <sub>x</sub>	3.19	13.97
		SO <sub>2</sub>	0.01	0.03
		CO	0.49	2.16
		VOC	0.02	0.08
F100/101	Effluent Treatment System (4)	VOC	-	5.72

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

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

(3) TSP - particulate matter including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

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

CO - carbon monoxide

TRS - total reduced sulfur

Cl<sub>2</sub> - chlorine

ClO<sub>2</sub> - chlorine dioxide

H<sub>2</sub>SO<sub>4</sub> - 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

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

following maximum operating schedule:

Based on a maximum 12-month calendar year average throughput  
2,400 tons per day of bleached air dry pulp.

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

Dated \_\_\_\_\_