

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20365/PSD-TX-785M4

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)	<u>Emission Rates *</u>		
			lb/hr	TPY	
11	No. 2 Bleach Plant ClO ₂ Scrubber Stack	ClO ₂	0.01	0.04	
70	No. 4 Bleach Plant Scrubber Stack	Cl ₂ ClO ₂	1.60 0.14	7.00 0.60	
71	No. 4 Bleach Plant Diffusion Washer Stack	Cl ₂ ClO ₂	1.60 0.14	7.00 0.60	
72	Monox-L Mixer Scrubber Vent	Cl ₂	<0.01	<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 ₂ Cl ₂	2.33 0.09 0.04	10.20 0.37 0.18	
19	Bulk Starch Unloading Vent	PM ₁₀	0.01	0.02	
5a	No. 2 Smelt Dissolve Tank Vent	PM ₁₀ TRS SO ₂	4.00 1.20 5.00	17.50 5.25 21.90	

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5b	No. 3 Smelt Dissolve Tank Vent	PM ₁₀	4.00	17.50
		TRS	1.20	5.25
		SO ₂	5.00	21.90

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	Emission Rates * TPY
2	No. 2 Recovery Boiler Stack	PM ₁₀	60.00	262.80
		VOC	8.00	35.00
		NO _x	62.78	275.00
		SO ₂	495.00	1510.00
		CO	251.37	1101.00
		H ₂ SO ₄	5.00	21.90
		TRS	16.00	70.10
3	No. 3 Recovery Boiler North Stack	PM ₁₀	38.90	168.19
		VOC	4.00	17.50
		NO _x	30.00	131.40
		SO ₂	39.38	172.50
		CO	52.75	231.04
		H ₂ SO ₄	2.50	10.95
		TRS	16.00	70.10
4	No. 3 Recovery Boiler South Stack	PM ₁₀	38.40	168.19
		VOC	4.00	17.50
		NO _x	30.00	131.40
		SO ₂	39.38	172.50
		CO	52.75	231.04
		H ₂ SO ₄	2.50	10.95
		TRS	16.00	70.10
26	No. 4 Recovery Boiler and Smelt Dissolve Tank Stack	PM ₁₀	50.00	219.00
		VOC	16.60	72.83
		NO _x	159.30	697.91
		SO ₂	121.90	534.17
		CO	242.50	1062.03
		H ₂ SO ₄	2.40	10.05

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		TRS	8.29	36.31
60	No. 1 NCG Incinerator** Stack	NO _x	0.98	4.30
		SO ₂	4.50	19.71
		CO	0.46	2.00
		VOC	0.02	0.10
		TRS	0.09	0.40
61	No. 2 NCG Incinerator Stack	NO _x	0.98	4.30
		SO ₂	5.48	24.00
		CO	0.46	2.00
		VOC	0.02	0.10
		TRS	0.09	0.40

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
1	No. 1 Power Boiler Stack	PM ₁₀	1.14	5.01
		NO _x	34.36	150.50
		SO ₂	0.14	0.60
		CO	9.14	40.03
		VOC	0.32	1.40
1	No. 2 Power Boiler Stack	PM ₁₀	55.00	240.90
		VOC	20.00	87.60
		NO _x	268.00	1173.80
		SO ₂	2.30	10.10
		CO	190.00	832.20
50	No. 6 Power Boiler Stack	PM ₁₀	72.00	315.36
		NO _x	190.40	823.00
		SO ₂	0.20	0.88
		CO	360.00	1555.00
		VOC	23.20	100.00
51	No. 5 Power Boiler Stack	PM ₁₀	1.63	7.14
		NO _x	16.94	74.20
		SO ₂	0.20	0.88
		CO	30.50	133.59
		VOC	3.07	13.45

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13	No. 4 Slaker Stack (4)	PM ₁₀	1.37	6.00
14	No. 1 Slaker Stack (4)	PM ₁₀	1.37	6.00
15	No. 2 Slaker Stack (4)	PM ₁₀	1.37	6.00
16	No. 3 Slaker Stack (4)	PM ₁₀	1.37	6.00
16-A	No. 7 Slaker Stack (4)	PM ₁₀	1.37	6.00
43	No. 1 Lime Kiln Stack	PM ₁₀	10.00	43.80
		VOC	0.07	0.30
		NO _x	48.00	206.00
		SO ₂	11.40	49.00
		CO	170.00	729.00
		TRS	1.76	7.70

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
8	No. 2 Lime Kiln Stack	PM ₁₀	7.20	31.01
		VOC	0.06	0.26
		NO _x	23.39	107.44
		SO ₂	12.00	52.20
		CO	175.00	766.50
		TRS	1.85	8.14
9	No. 3 Lime Kiln Stack	PM ₁₀	7.23	31.01
		VOC	0.07	0.31
		NO _x	27.39	119.96
		SO ₂	12.50	54.80
		CO	180.00	788.40
		TRS	1.89	8.27
7	No. 4 Lime Kiln Stack	PM ₁₀	6.92	30.29
		VOC	8.01	35.10
		NO _x	29.77	130.40

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		SO ₂	7.14	31.28
		CO	36.23	158.70
		TRS	0.95	4.16
48	Fresh Lime Handling (4) System, including:	PM ₁₀	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			
90	No. 5 Paper Machine Vents	PM ₁₀	0.06	0.27
		NO _x	3.19	13.97
		SO ₂	0.01	0.03
		CO	0.49	2.16
		VOC	0.02	0.08
1F	Road Dust (4)	TSP	-	21.66
		PM ₁₀	-	10.83
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 PM₁₀.
PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - 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:

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

** NCG Incinerator maximum allowable emission rates are effective after the Incinerator is relocated.

Dated_____