#### Permit No. 20365 and 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.

Emission	Source	Air Contaminant _	Emission	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	
<u>TPY</u>		, ,		
11	No. 2 Bleach Plant ClO <sub>2</sub> Scrubber Stack	CIO <sub>2</sub>	0.01	0.04
70	No. 4 Bleach Plant Scrubber Stack	$CI_2$ $CIO_2$	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	$Cl_2$	<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 CIO <sub>2</sub> CI <sub>2</sub>	2.33 0.09 0.04	10.20 0.37 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
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 SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

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

<u>TPY</u>

Emission	Source	Air Contaminant	Emission	Rates
* Point No. (1) TPY	Name (2)	Name (3)	lb/hr	
19C	No. 3 Bulk Starch Unloading Vent	TSP PM <sub>10</sub>	0.01 0.01	0.04 0.04
5a	No. 2 Smelt Dissolve Tank Vent TRS	$\begin{array}{ccc} & TSP & \\ & PM_{10} & \\ NO_x & 1.20 & \\ & 1.20 & \\ VOC & 2.20 & \\ & SO_2 & \end{array}$	4.70 4.70 5.10 5.25 9.60 5.00	20.70 20.70 21.90
5b	No. 3 Smelt Dissolve Tank Vent TRS	$\begin{array}{c} \text{TSP} \\ \text{PM}_{10} \\ \text{NO}_{x} & 1.80 \\ & 1.70 \\ \text{VOC} & 3.30 \\ & \text{SO}_{2} \\ \end{array}$	5.70 5.70 7.70 7.50 14.40 7.10	24.80 24.80 31.00
2	No. 2 Recovery Boiler Stack PM <sub>10</sub>	$\begin{array}{c} \text{TSP} \\ 60.00 \\ \text{VOC} \\ \text{NO}_{\times} \\ \text{SO}_{2} \\ \text{CO} \\ \text{H}_{2}\text{SO}_{4} \\ \text{TRS} \\ \text{Fluorides} \end{array}$	60.00 262.80 8.00 62.78 308.40 251.37 5.50 10.90 0.12	35.00 275.00 1350.60 1101.00 24.10 47.80 0.60
3	No. 3 Recovery Boiler North Stack	$\begin{array}{c} TSP \\ PM_{10} \\ VOC \\ NO_{X} \\ SO_{2} \\ CO \\ H_{2} SO_{4} \\ TRS \end{array}$	10.00 10.00 5.20 32.00 27.80 60.80 3.00 1.50	44.00 44.00 22.80 140.00 121.70 266.30 13.10 6.50

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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	
<u>TPY</u>				
		Fluorides	0.06	0.30

Emission	Source	Air Contaminant _	Emissio	n Rates
<u>*</u> Point No. (1) <u>TPY</u>	Name (2)	Name (3)	lb/hr	
4	No. 3 Recovery Boiler South Stack	$TSP$ $PM_{10}$ $VOC$ $NO_x$ $SO_2$ $CO$ $H_2SO_4$ $TRS$ =Iuorides	10.00 10.00 5.20 32.00 27.80 60.80 3.00 1.50 0.06	44.00 44.00 22.80 140.00 121.70 266.30 13.10 6.50 0.30
26	No. 4 Recovery Boiler and Smelt Dissolve Tank Stac	TSP $PM_{10}$ $VOC$ $NO_{x}$ $SO_{2}$ $CO$ $H_{2}SO_{4}$ $TRS$ $Fluorides$	50.00 50.00 17.90 171.60 119.40 261.10 12.80 6.30 0.30	219.00 219.00 78.40 751.60 522.90 1143.80 56.00 27.80 1.30
60	No. 1 NCG Incinerator* Stack* INO <sub>x</sub>	TSP 2.10 2.20 SO <sub>2</sub> CO VOC TRS	2.10 9.40 9.80 19.10 14.90 0.10 0.20	9.40 83.60 65.20 0.50 0.74
61	No. 2 NCG Incinerator Stack PM <sub>10</sub>	TSP 2.10 NO <sub>x</sub> SO <sub>2</sub> 5.48 CO VOC TRS	2.10 9.40 0.98 24.00 6.50 0.02 0.09	9.40 4.30 28.50 0.10 0.40

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

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

<u>TPY</u>

Emission	Source	Air Contaminant	Air Contaminant <u>Emission</u>	
* Point No. (1) TPY	Name (2)	Name (3)	lb/hr	
1	No. 1 Power Boiler Stack PM <sub>10</sub>	$\begin{array}{c} TSP \\ 1.14 \\ NO_{x} \\ SO_{2} \\ CO \\ VOC \end{array}$	1.14 5.01 34.36 0.14 56.85 0.32	5.01 150.50 0.60 249.00 1.40
1	No. 2 Power Boiler Stack PM <sub>10</sub>	TSP 55.00 VOC NO <sub>x</sub> SO <sub>2</sub> CO	55.00 240.90 20.00 268.00 2.30 190.00	240.90 87.60 1173.80 10.10 832.20
50	No. 6 Power Boiler Stack PM <sub>10</sub>	TSP 72.00 $NO_x$ $SO_2$ $CO$ $VOC$	72.00 315.36 190.40 0.20 360.00 23.20	315.36 834.00 0.88 1576.80 100.00
51	No. 5 Power Boiler Stack PM <sub>10</sub>	TSP 1.63 NO <sub>x</sub> SO <sub>2</sub> CO VOC	1.63 7.14 16.94 0.20 30.50 3.07	7.14 74.20 0.88 133.59 13.45
13	No. 4 Slaker Stack (4)	TSP PM <sub>10</sub> 1.37	1.37 6.00	6.00
14	No. 1 Slaker Stack (4)	TSP PM <sub>10</sub> 1.37	1.37 6.00	6.00
16-A	No. 7 Slaker Stack (4)	TSP	1.37	6.00

Emission	Source	Air Contaminant	Emission Rates	
<u>*</u>				
Point No. (1)	Name (2)	Name (3)	lb/hr	
<u>TPY</u>				
		PM <sub>10</sub> 1.37	6.00	

Emission	Source	Air Co	ontaminant _	Emission	Rates
* Point No. (1)	Name (2)	Na	ıme (3)	lb/hr	
<u>TPY</u> 43	No. 1 Lime Kiln Stack	PM <sub>10</sub>	TSP 10.00 VOC NO <sub>x</sub> SO <sub>2</sub> CO TRS	10.00 43.80 0.07 15.87 3.79 19.34 0.53	43.80 0.30 69.50 16.60 84.70 2.30
9	No. 3 Lime Kiln Stack	PM <sub>10</sub>	TSP 7.23 VOC NO <sub>x</sub> SO <sub>2</sub> CO TRS	7.23 31.10 0.07 20.64 4.93 25.11 0.71	31.10 0.31 90.40 21.60 110.00 3.10
7	No. 4 Lime Kiln Stack	PM <sub>10</sub>	TSP 6.92 VOC NO <sub>x</sub> SO <sub>2</sub> CO TRS	6.92 30.29 8.01 29.77 7.14 36.23 0.95	30.29 35.10 130.40 31.28 158.70 4.16
48	Fresh Lime Handling (4) System, including:		TSP PM <sub>10</sub>	0.07 0.07	0.30 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 $PM_{10}$		TSP 0.06	0.06 0.27	0.27

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#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	
<u>TPY</u>				
		NO <sub>x</sub>	3.19	13.97
		$SO_2$	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 dioxideCO carbon monoxideTRS total reduced sulfur
  - Cl<sub>2</sub> chlorine
  - CIO<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 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
-		-	

AIR	CON	TAM	INAN	TS I	DATA
$\neg$ III \	COIN			101	-

Emission *	Source	Air Contaminant	Emission Rates
Point No. (1) TPY	Name (2)	Name (3)	lb/hr
		Weeks/year 8.760	<u>52</u> or Hrs/year

<sup>\*\*</sup> NCG Incinerator maximum allowable emission rates are effective after the Incinerator is relocated.