

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

PSD-TX-778M1

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
RBO2A**	No. 2 Recovery Boiler West Stack	TSP	42.5	176.9
		PM <sub>10</sub>	42.5	176.9
		NO <sub>x</sub>	112.4	467.7
		VOC	23.9	99.5
		SO <sub>2</sub>	377.0	522.8
		SO <sub>3</sub>	14.1	19.6
		CO	218.5	908.9
		TRS	3.3	13.9
RBO2B**	No. 2 Recovery Boiler East Stack	TSP	42.5	176.9
		PM <sub>10</sub>	42.5	176.9
		NO <sub>x</sub>	112.4	467.7
		VOC	23.9	99.5
		SO <sub>2</sub>	377.0	522.8
		SO <sub>3</sub>	14.1	19.6
		CO	218.5	908.9
		TRS	3.3	13.9
LKO2	No. 2 Lime Kiln	TSP	26.3	115.2
		PM <sub>10</sub>	26.3	115.2
		NO <sub>x</sub>	33.3	145.9
		SO <sub>2</sub>	1.2	5.3
		SO <sub>3</sub>	0.2	1.1
		CO	4.2	18.5
		TRS	2.5	11.1
LSO1	No. 1 Lime Slaker	TSP	0.2	1.0
		PM <sub>10</sub>	0.2	1.0
LSO2	No. 2 Lime Slaker	TSP	0.2	1.0
		PM <sub>10</sub>	0.2	1.0

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
SMO2	No. 2 Smelt Tank Scrubber	TSP	18.9	82.6
		PM <sub>10</sub>	18.9	82.6
		NO <sub>x</sub>	3.3	14.3
		VOC	6.0	26.1
		SO <sub>2</sub>	13.4	58.7
		SO <sub>3</sub>	0.4	1.9
		TRS (a)	3.1	13.9
NCG-01	NCG Oxidation Unit Scrubber	VOC (b)	<0.1	0.30
		NO <sub>x</sub>	3.1	13.58
		SO <sub>2</sub>	16.0	70.10
		SO <sub>3</sub>	6.0	26.28
		CO	6.6	29.0
		TRS (b)	0.9	4.00
NCG-02	Condensate Tank	TRS	<0.1	0.40
NCG-F1	Fugitives (4)	TRS	0.37	1.62

- (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 - total suspended particulate including PM<sub>10</sub>  
 PM<sub>10</sub> - particulate matter less than 10 microns  
 NO<sub>x</sub> - nitrogen oxides  
 VOC - volatile organic compounds as defined in General Rule 101.1  
 SO<sub>2</sub> - sulfur dioxide  
 SO<sub>3</sub> - sulfur trioxide  
 TRS - total reduced sulfur compounds

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CO - carbon monoxide

- (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\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

- \*\* Total emissions from the No. 2 Recovery Boiler are equal to the sum of emissions from Emission Point Numbers RBO2A and RBO2B. For purposes of documenting allowable emission rates, the emissions from each stack are listed as being 50 percent of the total emissions from the boiler. Due to the physical configuration of the boiler and stacks; however, one stack may actually emit more than 50 percent of the total emissions.

- (a) The TRS emission rates are reported as H<sub>2</sub>S.  
(b) Combined emissions must not exceed 1.0 lb/hr.

400 tons per day of lime for the No. 2 Lime Kiln; 99.25 tons per hour of virgin black liquor solids burned in the No. 2 Recovery Boiler; and a total annual production of 736,023 tons of bone dry unbleached pulp.

Dated\_\_\_\_\_