

Attachment A

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Changes authorized under Standard Permit No. 41396 to
Permit Nos. 8068 and PSD-TX-437

AIR CONTAMINANTS DATA

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>
79-1	Lime Kiln Scrubber (5)	PM ₁₀	22.70	96.7
		NO _x	22.70	96.7
		CO	22.90	97.6
		VOC	7.50	32.0
		SO ₂	5.40	23.0
		TRS	0.90	3.8
79-2	Slaker (5)	PM ₁₀	0.50	2.2
		TRS	0.10	0.3
		VOC	0.30	1.3
79-3	Lime Blower (5)	PM ₁₀	0.40	1.7
79-4	Mud Filter Pump (5)	PM ₁₀	0.50	2.2
		VOC	0.26	1.1
79-5	Mud Filter Hood (5)	PM ₁₀	0.50	2.2
		VOC	0.23	1.0
79-6	Causticizer Tanks (5)	PM ₁₀	0.50	2.2
		VOC	0.07	0.3
81-1	Recovery Boiler (6)	PM ₁₀	50.50	218.1
		NO _x	55.00	237.6
		CO	112.50	486.0
		VOC	20.27	88.8
		SO ₂	206.00	890.0
		TRS	2.70	11.8
		H ₂ SO ₄	4.60	20.0
81-2	Smelt Tank (6)	PM ₁₀	8.30	36.0
		SO ₂	2.50	10.8
		TRS	1.40	6.0
		VOC	10.42	45.0

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
89-1	Blow Heat System (5)	TRS	0.23	1.0
		VOC	7.04	30.0
89-2	Brown Stock Washers (4) (6)	TRS	9.82	43.0
		VOC	12.70	55.0
G-1	Power Boiler 11	PM ₁₀	63.90	280.0
		NO _x	81.00	355.0
		CO	188.60	826.0
		VOC	54.10	237.0
		SO ₂	5.40	23.7
		H ₂ SO ₄	0.23	1.0
G-2	Power Boilers No. 4, 5, 8, and 9	PM ₁₀	**	** 18.3
		NO _x	**	672.6
		CO	**	201.7
		VOC	**	13.2
		SO ₂	**	1.4
G-5	Groundwood Mill (4)	VOC	226.20	977.0
G-6	Turbine	PM ₁₀	1.07	4.7
		NO _x	118.70	520.0
		CO	8.63	37.8
		VOC	0.59	2.6
		SO ₂	0.14	0.6
PM-2	No. 2 Paper Machine	VOC	15.45	67.7
PM-8	No. 8 Paper Machine	VOC	37.21	163.0
BP LT	Bleach Plant	VOC	7.13	31.3
		Chlorine	2.76	12.1
BP SCRUB-1	Bleach Plant Scrubber	Chlorine	0.30	0.9
		Chlorine Dioxide	1.00	3.0
		CO	81.00	236.6
		VOC	2.09	6.2

AIR CONTAMINANTS DATA

<u>Emission</u> *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hrTPY</u>	
INCIN-1	LVHC Incinerator	PM₁₀	4.50	12.6
		NO_x	7.59	22.2
		CO	4.50	12.6
		VOC	3.38	9.9
		SO₂	1.50	4.0
		TRS	2.93	8.6
GLCS	Green Liquor Clarification 6.4 and Storage		VOC	1.46
LMCS	Lime Mud Clarification and Storage	VOC	0.66	2.9
		TRS	0.02	<0.1
WLCS	White Liquor Clarification 1.0 and Storage		VOC	0.22
SRS	Soap Recovery and Storage 0.4		VOC	0.08
		TRS	0.05	0.3
WBLS	Weak Black Liquor Storage 0.5		VOC	0.10
		TRS	0.06	0.3
HBLS	Heavy Black Liquor Storage 0.8		VOC	0.18
		TRS	0.18	0.8
BRKPS	Brown Kraft Pulp Storage 3.8		VOC	0.86
		TRS	0.18	0.8
BLKPS	Bleached Kraft Pulp Storage		VOC	0.86

	3.8	TRS	0.18	0.8
MS	Misc. Storage	VOC	0.06	0.3
		TRS	0.04	0.2
WDYD	Woodyard	PM ₁₀	8.75	38.4

Attachment A
Page 4

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

* Unless otherwise noted, emissions are based on and facilities are limited to 8,760 hours/year of operation. The Kraft pulp mill is limited to 600 tons/day of unbleached pulp, based on a fiscal monthly average.

** The annual emission rates only are listed for these grandfathered boilers (for PSD netting purposes). Compliance is based on annual fuel consumption.

- (1) Emission point identification.
 - (2) Specific point source name. For fugitive sources use area name or fugitive source name.
 - (3) PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- NO_x - total oxides of nitrogen
CO - carbon monoxide

VOC - volatile organic compounds as defined in 30 Texas
Administrative Code 101.1

SO₂ - sulfur dioxide

TRS - total reduced sulfur

H₂SO₄ - sulfuric acid mist

(4) Fugitive emissions are an estimate.

(5) Emission rates are based on 8,520 hours/year of operation.

(6) Emission rates are based on 8,640 hours/year of operation.

Dated _____