

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 56211

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**
BOILER 1	Boiler No. 1	VOC	0.01	0.04
		NO _x	0.24	1.03
		SO ₂	0.01	0.01
		PM ₁₀	0.02	0.06
		CO	0.14	0.62
BOILER 2	Boiler No. 2	VOC	0.04	0.16
		NO _x	0.94	4.10
		SO ₂	0.01	0.02
		PM ₁₀	0.05	0.23
		CO	0.57	2.46
DRYER	Dryer Baghouse	VOC	0.04	0.16
		NO _x	0.94	4.10
		SO ₂	0.01	0.02
		PM ₁₀	0.30	1.23
		CO	0.57	2.46
T-10	Raw Lignin Tank	VOC	0.01	0.01
T-11	Raw Lignin tank	VOC	0.01	0.01
T-1000	Lignin Product tank	VOC	0.01	0.01
T-1001	Lignin Product Tank	VOC	0.01	0.01
T-1002	Lignin Product Tank	VOC	0.01	0.01
T-900A	Lignin Neutralization Tank	VOC	0.01	0.01
T-900B	Lignin Neutralization Tank	VOC	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T-600A	NaOH Storage Tank	NaOH	0.01	0.01
T-600B	NaOH Storage Tank	NaOH	0.01	0.01
T-30	Acetic Acid Tank	VOC	0.01	0.01
T-20	NaOH Storage Tank	NaOH	0.01	0.01
SCRUBBER	Scrubber	VOC	0.29	1.27
		NH ₃ 0.29	1.27	
FUGITIV	Fugitives (4)	VOC	0.06	0.25
		NH ₃ 0.14	0.61	
LOAD	Loading	VOC	0.01	0.01
PARTCLNR	Parts Cleaner (4)	VOC	0.25	0.25
COOLTWR	Cooling Tower	VOC	0.01	0.01
		NH ₃ 0.01	0.01	
WW	Wastewater (4)	VOC	0.01	0.01
		NH ₃ 0.07	0.27	

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM₁₀ - particulate matter 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.
 CO - carbon monoxide
 NaOH - sodium hydroxide
 NH₃ - ammonia

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(4) Fugitive emissions are an estimate.

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Raw Lignin	325 million pounds per year
Aqueous Ammonia (appro. 10%)	8 million pounds per year
Lime	26 million pounds per year
Caustic	45 million pounds per year
Acetic Acid	7 million pounds per year
Natural Gas	161 million standard cubic feet per year

Dated March 5, 2004