

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 35490

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>	
			<u>lb/hr</u>	<u>TPY**</u>
ALKSCRB	Alkaline Scrubber	NH <sub>3</sub>	0.01	0.01
		NH <sub>4</sub> OH	0.01	0.01
		IPA	0.01	0.01
ACDSCRB	Acid Scrubber	HCl	0.01	0.01
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
WWATER	Wastewater Treatment	NH <sub>4</sub> OH	0.04	0.17
		HCl	0.01	0.01
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		IPA	0.01	0.01
UNLDSCRB	Unloading System Scrubber 0.01	NH <sub>3</sub>		0.01
		HCl	0.01	0.01
FUG-2	Loading Fugitives (4)	NH <sub>4</sub> OH	0.50	0.08
		IPA	0.05	0.02
		HCl	0.08	0.01
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
FUG-3	Equipment Fugitives (4)	NH <sub>3</sub>	0.01	0.01
		NH <sub>4</sub> OH	0.01	0.01
		IPA	0.02	0.07
		HCl	0.01	0.01
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
FUG-4	Pretreatment Scrubber Fugitives	NH <sub>3</sub>	0.01	0.01
		NH <sub>4</sub> OH	0.01	0.01
		HCl	0.01	0.01
		H <sub>2</sub> O <sub>2</sub>	0.01	0.01
		IPA	0.01	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
BOILER	Boiler	VOC	0.02	0.10
		CO	0.35	1.52
		NO <sub>x</sub>	0.41	1.81
		PM	0.03	0.14
		SO <sub>2</sub>	0.01	0.01

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 2.5 microns is emitted.

CO - carbon monoxide

HCl - hydrogen chloride

NH<sub>3</sub> - ammonia

H<sub>2</sub>O<sub>2</sub> - hydrogen peroxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

NH<sub>4</sub>OH - ammonium hydroxide

IPA - isopropyl alcohol

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- (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 \_\_\_\_\_  
8,760 Hrs/year

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

Dated November 21, 2007