

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 46534 and PSD-TX-992M1

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**
06STK_003	FCCU Scrubber Stack (6)	VOC	12.17	53.3
		NO _x 984.0	2275	
		CO (5)	911.0	3774
		SO ₂ 832.9	431.2	
		PM (5)	140.0	608.8
		sulfuric acid mist (5)	41.7	181.5
	FCCU Scrubber Stack (7)	VOC	12.17	53.3
		NO _x 598.7	619.9	
		CO (5)	911.0	3774
		SO ₂ 832.9	431.2	
		PM (5) (8)	198.7	655.8
		sulfuric acid mist (5)	93.3	250.0
06FUG_001	FCCU Fugitives (4)	VOC	9.84	43.10
		ammonia	0.05	0.20
14FUG_001	North Plant Flare Gas Recovery Unit Process Fugitives (4)	H ₂ S	0.04	0.17
		VOC	4.25	18.63

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- (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 (30 TAC § 101.1)
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter, condensable and noncondensable (including sulfuric acid mist). Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emissions are permitted under PSD as well as State reviews.
- (6) Hourly and annual emission rate limits prior to April 1, 2008 except for annual NO_x emissions rate limit which is effective until April 1, 2009.
- (7) Hourly and annual emission rate limits as of April 1, 2008, except for annual NO_x emissions rate limit which is effective on April 1, 2009.
- (8) These allowable emission rates also apply during all periods of planned maintenance, start-up, and shutdown whether demonstrated under 30 TAC Chapter 101 or authorized in another state permit or permit by rule. This permit does not authorize any planned maintenance, start-up, and shutdown emissions.

* 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 January 31, 2008