

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83784, PSD-TX-1116, and N73

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 the 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**
STCK_3A	CTG-HRSG3A Stack (GE 7FA with 362 MMBtu/hr Duct Burner firing Natural Gas)	NO _x	16.67	---,---
		NO _x [MSS ***]	200.00	---,---
		VOC	4.93	---,---
		VOC [MSS ***]	113.10	---,---
		CO	51.00	---,---
		CO [MSS ***]	1750.00	---,---
		PM ₁₀	27.14	---,---
		SO ₂	15.88	---,---
		H ₂ SO ₄	4.03	---,---
		NH ₃	21.55	---,---
STCK_3B	CTG-HRSG3B Stack (GE 7FA with 362 MMBtu/hr Duct Burner firing Natural Gas)	NO _x	16.67	---,---
		NO _x [MSS ***]	200.00	---,---
		VOC	4.93	---,---
		VOC [MSS ***]	113.10	---,---
		CO	51.00	---,---
		CO [MSS ***]	1750.00	---,---
		PM ₁₀	27.14	---,---
		SO ₂	15.88	---,---
		H ₂ SO ₄	4.03	---,---
		NH ₃	21.55	---,---
ANNUAL EMISSIONS FOR ALL COMBUSTION TURBINES				
STCK_3A and STCK_3B	CTG-HRSG3A Stack and CTG-HRSG3B	NO _x	---,---	136.3
		VOC	---,---	35.9
		CO	---,---	392.9
		PM ₁₀	---,---	167.6
		SO ₂	---,---	25.9
		H ₂ SO ₄	---,---	5.6
		NH ₃	---,---	176.2

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FUG_NH3	SCR Piping Fugitives (4)	NH ₃	0.05	0.23
FUG_NGP	Natural Gas Piping Fugitives (4)	VOC	0.01	0.03

- (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) NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
SO₂ - sulfur dioxide
NH₃ - ammonia
H₂SO₄ - sulfuric acid mist
- (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:

8,760 Hrs/year/turbine and 5,000 Hrs/year/duct burner.

** Compliance with annual emission limits is based on a rolling 12-month period. The TPY includes MSS activities.

*** Maintenance, start-up, and shutdown activities.

**** Emission rates are based on averaging periods as specified per pollutant in special conditions.

Date May 19, 2009