

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 81594 and PSD-TX-1091

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**
NB8	Combustion Turbine and Duct Fired HRSG No. 8 (Combined Cycle)	SO ₂	18.1	6.13
		NO _x	49.0	201.48
		PM/PM ₁₀	36.8	104.24
		CO	29.7	202.34
		VOC	13.8	56.50
		H ₂ SO ₄	10.0	3.30
		NH ₃	18.0	74.46
		NO _x (5)	270.0	---
		CO(5)	1,920.0	---
NB8A	Combustion Turbine No. 8 (Simple Cycle) (6)	SO ₂	13.1	1.25
		NO _x	63.0	76.25
		PM/PM ₁₀	18.0	21.25
		CO	32.0	37.50
		VOC	3.0	3.75
		H ₂ SO ₄	1.0	0.10
		NO _x (5)	97.4	---
		CO(5)	187.1	---
		VOC(5)	14.4	---
NB9	Combustion Turbine and Duct Fired HRSG No. 9 (Combined Cycle)	SO ₂	18.1	6.13
		NO _x	49.0	201.48
		PM/PM ₁₀	36.8	104.24
		CO	29.7	202.34
		VOC	13.8	56.50
		H ₂ SO ₄	10.0	3.30
		NH ₃	18.0	74.46
		NO _x (5)	270.0	---
		CO(5)	1,920.0	---

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		VOC (5)	114.0	---
NB9A	Combustion Turbine No. 9 (Simple Cycle) (6)	SO ₂	13.1	1.25
		NO _x	63.0	76.25
		PM/PM ₁₀	18.0	21.25
		CO	32.0	37.50
		VOC	3.0	3.75
		H ₂ SO ₄	1.0	0.10
		NO _x (5)	97.4	---
		CO(5)	187.1	---
		VOC(5)	14.4	---
NB8/NB8A and NB9/NB9A	Simple Cycle and Combined Cycle for both Combustion Turbine Units	SO ₂	---	12.3
		NO _x	---	440.5
		PM/PM ₁₀	---	208.5
		CO	---	325.0
		VOC	---	113.0
		H ₂ SO ₄	---	6.7
		NH ₃	---	148.9
FGH1	Fuel Gas HeaterNo. 1	SO ₂	0.01	0.02
		NO _x	1.95	2.53
		PM/PM ₁₀	0.15	0.19
		CO	1.64	2.13
		VOC	0.11	0.14
FGH2	Fuel Gas Heater No. 2	SO ₂	0.01	0.02
		NO _x	1.95	2.53
		PM/PM ₁₀	0.15	0.19
		CO	1.64	2.13
		VOC	0.11	0.14
GEN1	Emergency Generator No.1	SO ₂	0.32	0.02
		NO _x	8.79	0.46
		PM/PM ₁₀	0.05	<0.01
		CO	0.38	0.02
		VOC	0.02	<0.01

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FWP1	Fire Water Pump No. 1	SO ₂	0.59	0.03
		NO _x	1.79	0.09
		PM/PM ₁₀	0.08	<0.01
		CO	1.51	0.08
		VOC	0.71	0.04
TK-DIESEL 1	Diesel Storage Tank No.1	VOC	0.91	<0.01
TK1	Storage Tank No. 1	NaOH	0.09	<0.01
TK2	Storage Tank No. 2	H ₂ SO ₄	<0.01	<0.01
TK3A	Storage Tank No. 3A	Trisodium phosphate	<0.01	<0.01
TK3B	Storage Tank No. 3B	Trisodium phosphate	<0.01	<0.01
TK4	Storage Tank No. 4	Ammonium hydroxide	0.48	0.07
TK5	Storage Tank No. 5A	Sodium bisulfite	<0.01	<0.01
TK6	Storage Tank No. 6	NaOH	0.68	<0.01
AMFUG	Aqueous Ammonia Handling and Fugitives (4)	NH ₃	0.02	0.10
TOMV1	Turbine Oil Mist Vents	VOC	0.01	0.04
TOMV2	Turbine Oil Mist Vents	VOC	0.01	0.04
TOMV3	Turbine Oil Mist Vents	VOC	0.01	0.02
NGFUG	Natural Gas Fugitives (4)	VOC	0.13	0.56

- (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.

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- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

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

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere

PM₁₀ - particulate matter, suspended in the atmosphere, equal to or less than 10 microns in diameter

CO - carbon monoxide

NaOH - sodium hydroxide

H₂SO₄ - sulfuric acid

NH₃ - ammonia

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

- (5) Emission limits during start-up or shutdown operations.

- (6) NB8A and NB9A are limited to 2,500 annual hours of operation in simple cycle mode each.

- * 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.

Dated December 18, 2007