

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83801 and PSD-TX-1117

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**
HRSG3 (8) HRSG4	GE 7FA (~171.1 MW) + 600 MMBtu/hr DB	NO _x	18.0	74.5
		NO _x (SS) (7)	420.0	--
		CO	59.0	249.7
		CO (SS) (7)	1800.0	--
		VOC	9.0	37.2
		VOC (SS) (7)	115.0	--
		PM/PM ₁₀	12.0	52.6
		SO ₂	11.7	12.8
		SO ₃	1.3	1.4
		NH ₃	23.0	96.4
DG-2 (5)	Emergency Diesel Generator (600 hp)	NO _x	11.36	0.85
		CO	3.29	0.25
		VOC	0.45	0.03
		PM/PM ₁₀	0.31	0.02
		SO ₂	0.80	0.06
B-2 (6)	Auxiliary Boiler (~36.6 MMBtu)	NO _x	1.28	1.12
		CO	1.35	1.19
		VOC	0.59	0.51
		PM/PM ₁₀	0.37	0.32
		SO ₂	0.20	0.04
DG-TK2	Emergency Diesel Generator Fuel Tank	VOC	0.02	0.0004
CT-2 (9)	Cooling Tower No. 2 Vents	PM	2.83	12.40
		PM ₁₀	1.33	5.82
CP-2 (9)	Chiller No. 2 Cooling Tower Vents	PM	0.06	0.25
		PM ₁₀	0.05	0.21

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NH ₃ -TK2	Ammonia Storage Tank No. 2	NH ₃	0.003	0.014
OSW-2	Oil Water Separator No. 2	VOC	0.48	1.05
H ₂ SO ₄ -TK2	Sulfuric Acid Tank No. 2	H ₂ SO ₄	0.01	0.01
NaOH-TK2	Sodium Hydroxide Tank No. 2	NaOH	0.01	0.01
NaOCl-TK2	Sodium Hypochlorite Tank No. 2	NaOCl	1.56	0.08
FUG4	Power Block 3 Fugitives	VOC	0.07	0.29
FUG5	Power Block 4 Fugitives	VOC	0.07	0.29

- (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
- SO₃ - sulfite
- 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
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid
- NaOCl - sodium hypochlorite
- NaOH - sodium hydroxide
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emergency diesel generator is limited to 150 operating hours per year.
- (6) The auxiliary boiler is limited to annual capacity factor of 20 percent.
- (7) SS - start-up and shutdown emissions rates.
- (8) The pounds per hour and tons per year apply to each emission point.
- (9) Emissions are the sum total of all exhausts.

- * 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. Tons per year emissions include maintenance, start-up, and shutdown emissions.

Dated November 17, 2008