

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83638 and PSDTX1110

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**
E-ST3	MHI501G (~254 MW) + ~230 MMBtu/hr DB (Option 1)	NO _x NO _x (SS) CO CO (SS) VOC VOC (SS) SO ₂ PM ₁₀ /PM _{2.5} NH ₃	21.45 239.00 46.3 3123.50 12.04 298.2 15.81 20 22.54	281.77 - 2910.69 - 178.65 - 17.32 83.22 98.73
E-ST4	MHI501G (~254 MW) + ~230 MMBtu/hr DB (Option 1)	NO _x NO _x (SS) CO CO (SS) VOC VOC (SS) SO ₂ PM ₁₀ /PM _{2.5} NH ₃	21.45 239.00 46.3 3123.50 12.04 298.2 15.81 20 22.54	281.77 - 2910.69 - 178.65 - 17.32 83.22 98.73

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E-ST3	GE 7FA (~170 MW) + ~570 MMBtu/hr DB (Option 2)	NO _x	18.00	429.14
		NO _x (SS)	420.00	-
		CO	59.00	1783.59
		CO (SS)	1800.00	-
		VOC	9.00	130.97
		VOC (SS)	115.00	-
		SO ₂	13.02	14.26
		PM ₁₀ /PM _{2.5}	12.00	52.55
		NH ₃	23.00	96.39
E-ST4	GE 7FA (~170 MW) + ~570 MMBtu/hr DB (Option 2)	NO _x	18.00	429.14
		NO _x (SS)	420.00	-
		CO	59.00	1783.59
		CO (SS)	1800.00	-
		VOC	9.00	130.97
		VOC (SS)	115.00	-
		SO ₂	13.02	14.26
		PM ₁₀ /PM _{2.5}	12.00	52.55
		NH ₃	23.00	96.39
E-AUXBLR2	Auxiliary Boiler ~142.2 MMBtu/hr	NO _x	1.42	0.62
		CO	5.25	2.30
		VOC	0.77	0.34
		SO ₂	0.08	0.04
		PM ₁₀ /PM _{2.5}	1.06	0.46
E-GEN2	Emergency Generator 2 ~750-hp	NO _x	23.25	5.81
		CO	5.01	1.25
		VOC	1.85	0.46
		SO ₂	1.54	0.38
		PM ₁₀ /PM _{2.5}	1.65	0.41
E-PUMP2	Fire Water Pump 2 ~183-hp	NO _x	5.67	1.42
		CO	1.22	0.31
		VOC	0.45	0.11
		SO ₂	0.38	0.09
		PM ₁₀ /PM _{2.5}	0.40	0.10
E-CTOWER2 (5)	Cooling Tower 2	PM	5.99	22.50

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		PM ₁₀ /PM _{2.5}	0.44	1.92
E-PIPFUG2 (4)	Fugitive Components 2	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
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
SO₂ - sulfur dioxide
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
NH₃ - ammonia
SS - startup and shutdown emissions
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Cooling tower emissions based on the total of 14 vents.

* 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.

Date: March 3, 2010