

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41166 and PSDTX939

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**
Normal Operations				
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	91.9	-
		CO	143.4	-
		VOC	12.3	-
		PM ₁₀ /PM _{2.5}	30.1	-
		SO ₂	41.8	-
		H ₂ SO ₄	5.1	-
		NH ₃	37.8	-
E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	91.9	-
		CO	143.4	-
		VOC	12.3	-
		PM ₁₀ /PM _{2.5}	30.1	-
		SO ₂	41.8	-
		H ₂ SO ₄	5.1	-
		NH ₃	37.8	-
Reduced Load Operations				
E-ST 1 or E-ST 2	MHI501G (~ 254 MW)	NO _x	386.9	-
		CO	3029.2	-
		VOC	333.4	-
		PM ₁₀ /PM _{2.5}	21.3	-
		SO ₂	18.2	-
		H ₂ SO ₄	2.2	-
		NH ₃	20.5	-

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Annual Emission Rates - Normal and Reduced Load Operations

E-ST 1 and E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	-	708.7
		CO	-	1128.6
		VOC	-	103.0
		PM ₁₀ /PM _{2.5}	-	230.9
		SO ₂	-	161.6
		H ₂ SO ₄	-	19.8
		NH ₃		291.5
E-AUXBLR	Auxiliary Boiler 142 MMBtu/hr	NO _x	8.5	3.7
		CO	10.5	4.6
		VOC	0.77	0.34
		PM ₁₀ /PM _{2.5}	1.4	0.6
		SO ₂	2.2	0.49
E-TANK7	Diesel Storage Tank 300 gallon	VOC	0.008	<0.01
C-TOWER	Cooling Tower	PM	5.68	24.87
		PM ₁₀ /PM _{2.5}	0.41	1.82
E-PIPFUG	Piping Fugitives	VOC	0.11	0.5
		NH ₃	0.33	1.41

- (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
 - PM - particulate matter
 - 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
 - NH₃ - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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- * 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: March 3, 2010