

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, sources, and related activities. 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	
			lbs/hour (6)(7)	TPY (4)
Hourly Emissions Rates - 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	-
Hourly Emissions Rates - Reduced Load and MSS Operations				
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	NO _x	386.9	-
		CO	3029.2	-
		VOC	333.4	-

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		PM ₁₀ /PM _{2.5}	21.3	-
E-ST 1	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	SO ₂	18.2	-
		H ₂ SO ₄	2.2	-
		NH ₃	20.5	-
E-ST 2	MHI501G (~ 254 MW) + ~ 243.3 MMBtu/hr DB	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	-
Annual Emission Rates - Normal, Reduced Load, and MSS Operations				
E-ST 1 & 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	VOC	0.01	<0.01

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	300 gallon			
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
MSSFUG	non-ILEs Maintenance emissions (Attachment B)	VOC	276.33	0.27
ILEMSS	ILEs Maintenance (Attachment A)	NO _x	<0.01	<0.01
		CO	<0.01	<0.01
		VOC	0.21	0.01
		PM ₁₀	0.36	0.01
		PM _{2.5}	0.36	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (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 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - MSS - maintenance, start-up, and shutdown emissions
 - 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

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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- (6) For NO_x and CO emissions that are measured using a CEMS, the Reduced Load/MSS lb/hr limits apply during each clock hour that includes one or more minutes of reduced load operation or MSS activities. During all other clock hours, the normal lb/hr limits apply.
- (7) For NH₃ emissions that are measured using a CEMS, the Normal Load limits apply during each clock hour that includes one or more minutes of normal load operation. During all other clock hours, the Reduced Load/MSS lb/hr limits apply.

Date: _____