

Emission Sources - Maximum Allowable Emission Rates

Permit Number 108258 and PSDTX1348

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	TPY (4)
VIC10	Unit 10 Combined Cycle (GE 7FA) or equivalent	NO _x	30.8	149.3
		NO _x (startup/shutdown)	301.5	
		CO	21.4	358.0
		CO (startup/shutdown)	1909.5	
		SO ₂	33.5	12.6
		VOC	12.3	39.0
		VOC (startup/shutdown)	349.5	
		PM	22.9	57.7
		PM ₁₀	22.9	57.7
		PM _{2.5}	22.9	57.7
		H ₂ SO ₄	5.2	2.0
		NH ₃	22.8	85.0
		NH ₃ (startup/shutdown)	34.0	
		HCOH	0.6	2.0
VIC10-LOV	Lube Oil Vent	PM	0.003	0.01
		PM ₁₀	0.003	0.01
		PM _{2.5}	0.003	0.01
COOLTOW5	Cooling Tower (5)	PM	5.28	20.25
		PM ₁₀	1.51	6.54
		PM _{2.5}	<0.01	0.04

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VIC10-FUG-NGAS (6)	Unit 10 Natural Gas Fugitive Emissions	VOC	0.1	0.4
VIC10-FUG-SCR (6)	Unit 10 SCR Piping Fugitive Emissions	NH ₃	0.1	0.1

- (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) 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}
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - NH₃ - ammonia
 - HCOH - formaldehyde
 - H₂SO₄ - sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Compliance with the emissions rates for the cooling tower shall be effective upon completion of the cooling tower upgrade associated to the plant expansion project and commercial operation of EPN VIC10 gas turbine.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 18, 2015