Emission Sources - Maximum Allowable Emission Rates

Permit Number 20869 and PSDTX800

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)	
Case I: Turbines Firing Natural Gas with Duct Burners Unfired					
Turb	85 MWe Gas	NO _x	52.29	201.96	
	Turbine GE Model PG7111(EA)	CO	58.68	226.65	
		SO ₂	2.17	8.32	
		PM	5.00	21.90	
		PM ₁₀	5.00	21.90	
		VOC	1.50	5.87	
OC8 S82	85 MWe Gas	NO _x	52.29	201.96	
	Turbine GE Model	СО	58.68	226.65	
	PG7111(EA)	SO ₂	2.17	8.32	
		PM	5.00	21.90	
		PM ₁₀	5.00	21.90	
		VOC	1.50	5.87	
OC8 S83	85 MWe Gas Turbine GE Model PG7111(EA)	NO _x	52.29	201.96	
		СО	58.68	226.65	
		SO ₂	2.17	8.32	
		PM	5.00	21.90	
		PM ₁₀	5.00	21.90	
		VOC	1.50	5.87	
Case IIa: Gas Turbines and Duct Burners Firing Natural Gas					
OC8 S81	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	64.27	241.52	
		СО	100.01	390.57	
		SO ₂	3.07	11.61	
		PM	10.90	43.76	
		PM ₁₀	10.90	43.76	
		VOC	3.27	12.37	
OC8 S82	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	64.27	241.52	
		СО	100.01	390.57	
		SO ₂	3.07	11.61	
		PM	10.90	43.76	
		PM ₁₀	10.90	43.76	

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		VOC	3.27	12.37
OC8 S83	85 MWe Gas	NO _x	64.27	241.52
	Turbine GE Model	СО	100.01	390.57
	PG7111(EA) with 590 MMBtu/hr Duct	SO ₂	3.07	11.61
	Burner	PM	10.90	43.76
	Barrior	PM ₁₀	10.90	43.76
		VOC	3.27	12.37
	s Firing Natural Gas and atural Gas	Duct Burners Firing a Co	ombination of Proces	s Gas
OC8 S81	85 MWe Gas	NO _x	72.76	272.99
	Turbine GE Model	CO	100.01	390.57
	PG7111(EA) with	SO ₂	3.06	11.61
	590 MMBtu/hr Duct Burner	PM	10.90	43.76
	Dumei	PM ₁₀	10.90	43.76
		VOC	3.27	12.37
OC8 S82	85 MWe Gas	NO _x	72.76	272.99
	Turbine GE Model	CO	100.01	390.57
	PG7111(EA) with	SO ₂	3.06	11.61
	590 MMBtu/hr Duct Burner	PM	10.90	43.76
	Dumei	PM ₁₀	10.90	43.76
		VOC	3.27	12.37
OC8 S83	85 MWe Gas	NO _x	72.76	272.99
	Turbine GE Model	CO	100.01	390.57
	PG7111(EA) with	SO ₂	3.06	11.61
	590 MMBtu/hr Duct Burner	PM	10.90	43.76
	Burner	PM ₁₀	10.90	43.76
		VOC	3.27	12.37
VOC Sources	·	,	, -	
OC8 SC801	Solvent Cleaner	VOC	0.08	0.33
OC8 ST8006	Distillate Tank Vent	VOC	0.06	0.26
OC8 FU1	Fugitives	VOC	1.22	5.32
OC2 ST100	Distillate Tank Vent	VOC	0.12	0.48
OC2 FU 8	Fugitives	VOC	0.63	2.73
by Standard Pern authorization is i	operation of gas turbine nit (SP) for Pollution Con ncorporated by reference nission limits listed below	OC8 S81 at reduced loatrol Projects, Permit Reand reduced load oper	gistration No. 71322.	eat is authorized This
OC8 S81	85 MWe Gas	СО	100.01	390.57
	Turbine GE Model PG7111(EA) Power	NO _x	134.47	521.11
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PM ₁₀	10.90	45.29
SO ₂	3.18	12.32
VOC	3.27	12.88

- (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 PM_{10} and $PM_{2.5}$ PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$

PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

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