

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 20869 and PSD-TX-800

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.

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

Case I: Turbines Firing Natural Gas with Duct Burners Unfired

OC8 S81	85 MWe Gas Turbine.....	NO _x	66.00	252.42
	GE Model PG7111(EA).....	CO	58.68	226.65
	with 590 MMBtu/hr	SO ₂	2.17	8.32
	Duct Burner.....	PM/PM ₁₀	21.90	
	.....	VOC	1.50	5.87
OC8 S82	85 MWe Gas Turbine.....	NO _x	66.00	252.42
	GE Model PG7111(EA).....	CO	58.68	226.65
	with 590 MMBtu/hr	SO ₂	2.17	8.32
	Duct Burner.....	PM/PM ₁₀	21.90	
	.....	VOC	1.50	5.87
OC8 S83	85 MWe Gas Turbine.....	NO _x	66.00	252.42
	GE Model PG7111(EA).....	CO	58.68	226.65
	with 590 MMBtu/hr	SO ₂	2.17	8.32
	Duct Burner.....	PM/PM ₁₀	21.90	
	.....	VOC	1.50	5.87

Case II: Turbines Firing Combination of Process Gas and Natural Gas with Duct Burners Unfired

OC8 S81	85 MWe Gas Turbine.....	NO _x	84.88	324.42
	GE Model PG7111(EA).....	CO	58.68	226.65
	with 590 MMBtu/hr.....	SO ₂	2.17	8.32
	Duct Burner.....	PM/PM ₁₀	21.90	
	VOC	1.50	5.87

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
OC8 S82	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	84.88	324.42
		CO	58.68	226.65
		SO ₂	2.17	8.32
		PM/PM ₁₀	5.00	21.90
		VOC	1.50	5.87
OC8 S83	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	84.88	324.42
		CO	58.68	226.65
		SO ₂	2.17	8.32
		PM/PM ₁₀	5.00	21.90
		VOC	1.50	5.87

Case III: Turbines and Duct Burners Firing a Combination of Process Gas and Natural Gas

OC8 S81	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	134.47	521.11
		CO	100.01	390.57
		SO ₂	3.18	12.32
		PM/PM ₁₀	10.90	45.29
		VOC	3.27	12.88
OC8 S82	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	134.47	521.11
		CO	100.01	390.57
		SO ₂	3.18	12.32
		PM/PM ₁₀	10.904	5.29
		VOC	3.271	2.88
OC8 S83	85 MWe Gas Turbine GE Model PG7111(EA) with 590 MMBtu/hr Duct Burner	NO _x	134.47	521.11
		CO	100.01	390.57
		SO ₂	3.18	12.32
		PM/PM ₁₀	10.90	45.29
		VOC	3.27	12.88

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			lb/hr	TPY**

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 FU8	Fugitives	VOC	0.63	2.73

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point 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, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

CO - carbon monoxide

(4) Maximum hourly emissions based on 20°F ambient temperature

(5) Annual emissions based on 70°F ambient temperature

* Emission rates are based on an operating schedule of 8,760 hrs/year

** Compliance with the annual emission limits shall be based on a rolling 12-month year rather than the calendar year.

Dated_____