

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

20869

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)	<u>Emission Rates*</u> #/hr (4) TPY (5)	
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Case I: TURBINES FIRING NATURAL GAS with DUCT BURNERS UNFIRED

OC8 S81	85 MWe GAS TURBINE GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNER	NOx	66.00	252.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	5.00	21.90
		VOC	1.50	5.87

OC8 S82	85 MWe GAS TURBINE GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNER	NOx	66.00	252.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	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	NOx	66.00	252.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	5.00	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 GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNER	NOx	84.88	324.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	5.00	21.90
		VOC	1.50	5.87

OC8 S82	85 MWe GAS TURBINE GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNER	NOx	84.88	324.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	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	NOx	84.88	324.42
		CO	58.68	226.65
		SO2	2.17	8.32
		PM/PM10	5.00	21.90
		VOC	1.50	5.87

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u> #/hr (4) TPY (5)	
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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 BURNERS	NOx	134.47	521.11
		CO	100.01	390.57
		SO2	3.18	12.32
		PM/PM10	10.90	45.29
		VOC	3.27	12.88
OC8 S82	85 MWe GAS TURBINE GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNERS	NOx	134.47	521.11
		CO	100.01	390.57
		SO2	3.18	12.32
		PM/PM10	10.90	45.29
		VOC	3.27	12.88
OC8 S83	85 MWe GAS TURBINE GE MODEL PG7111(EA) with 590 MMBtu/hr DUCT BURNERS	NOx	134.47	521.11
		CO	100.01	390.57
		SO2	3.18	12.32
		PM/PM10	10.90	45.29
		VOC	3.27	12.88

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 General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

PM - particulate matter

PM10 - particulate matter < 10 microns

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 and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8760

Dated _____