EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 21587 and PSDTX807

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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates* lbs/hour (4)	TPY (5)
LONG-TERM EMISSION LIMITS NOT TO EXCEED				
Based on 125 hours of fuel oil firing and 8,635 hours of natural gas firing per consecutive 12-month period, with duct burner operation on natural gas for 8,760 hours per consecutive 12-month period.				
SJS1	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	--	439.4
		CO	--	830.0
		PM/PM_{10}	--	50.9
		VOC	--	38.8
		SO_2	--	18.6
SJS2	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	--	439.4
		CO	--	830.0
		PM/PM_{10}	--	50.9
		VOC	--	38.8
		SO_2	--	18.6
SHORT-TERM EMISSION LIMITS				
Case I: Turbines firing fuel oil with duct burners firing natural gas.				
SJS1	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	364.5	--
		CO	563.0	--
		PM/PM_{10}	19.5	--
		VOC	12.5	--
		SO_2	235.3	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates* lbs/hour (4)	TPY (5)
SJS2	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	364.5	--
		CO	563.0	--
		PM/PM_{10}	19.5	--
		VOC	12.5	--
		SO_2	235.3	--
SHORT-TERM EMISSION LIMITS				
Case II: Turbines firing fuel oil with duct burners unfired.				
SJS1	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	320.0	--
		CO	401.0	--
		PM/PM_{10}	15.0	--
		VOC	5.5	--
		SO_2	235.0	--
SJS2	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	320.0	--
		CO	401.0	--
		PM/PM_{10}	15.0	--
		VOC	5.5	--
		SO_2	235.0	--
SHORT-TERM EMISSION LIMITS				
Case III: Turbines firing natural gas with duct burners unfired.				
SJS1	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	62.0	--
		CO	296.0	--
		PM/PM_{10}	7.0	--
		VOC	2.2	--
		SO_2	0.7	--

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates* lbs/hour (4)	TPY (5)
SJS2	80 MWe Gas Turbine GE	NO_X	62.0	--

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		CO	296.0	--
		PM/PM_{10}	7.0	--
		VOC	2.2	--
		SO_2	0.7	--
SHORT-TERM EMISSION LIMITS				
Case IV: Turbines firing natural gas with duct burners fired.				
SJS1	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	106.5	--
		CO	496.0	--
		PM/PM_{10}	11.5	--
		VOC	9.2	--
		SO_2	1.0	--
SJS2	80 MWe Gas Turbine GE Frame 7EA with 550 MMBtu/hr Duct Burner	NO_X	106.5	--
		CO	496.0	--
		PM/PM_{10}	11.5	--
		VOC	9.2	--
		SO_2	1.0	--

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented

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PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
CO - carbon monoxide

(4) Maximum hourly emissions are based on 20^{O} F ambient temperature.

(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emissions are based on 70°F ambient temperature with 125 hours of fuel oil firing and 8,635 hours of natural gas-firing per year, with duct burners in operation.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Date: January 25, 2011