Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 17380 and PSDTX717M2

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 1 - 2,430 Hours Firing Natural Gas				
GT-1A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-1B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-2A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0

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GT-2B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
GT-2B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-3A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-3B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-4A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	64.0	78.0
		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
GT-4B (6,7)	Pratt and Whitney FT4C-1	NO_x	64.0	78.0

Emission Sources - Maximum Allowable Emission Rates

		CO	235.0	286.0
		VOC	34.0	41.0
		VOC (MSS)	51.0	-
		PM/PM_{10}	15.0	18.0
		SO_2	20.0	24.0
Case II - 690 Hours Firing No. 1 Fuel Oil				
GT-1A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-1B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-2A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-2B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0

Emission Sources - Maximum Allowable Emission Rates

		SO_2	50.0	20.0
GT-3A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-3B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-4A (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
		PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-4B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	NO_x	155.0	52.0
		CO	233.0	94.0
		VOC	5.0	2.0
GT-4B (6,7)	Pratt and Whitney FT4C-1 25 MW Gas Turbine	PM/PM_{10}	45.0	18.0
		SO_2	50.0	20.0
GT-VENTS (8)	Gas Turbines Lube Oil Reservoirs	VOC	0.48	2.1
		PM	0.48	2.1
DC-FUELFUG (5)	Fuel System Component Fugitives (natural gas service)	VOC	0.74	3.26
		H_2S	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

WTTNKS (5)	Water Treatment Chemical Storage Tanks (Attachment C)	VOC	0.82	0.01
		HCl	0.44	<0.01
		NH_3	0.01	0.01
WOTNK	Use Oil Tank/Truck Loading	VOC	0.16	<0.01
OWS-TNKS (5)	Oil-Water Separator Tanks (Attachment C)	VOC	<0.01	<0.01
HEATERS	Salamander Portable Heaters 1.6 MMBtu/hr (combined capacity)	NO_x	0.04	0.16
		CO	<0.01	0.03
		VOC	<0.01	<0.01
		PM	<0.01	<0.01
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
		SO_2	0.01	0.05
ILEMSS (5)	ILE Maintenance Emissions (Attachment A)	NO_x	0.47	0.06
		CO	0.12	0.01
		VOC	1.25	0.10
		PM	0.05	0.01
		PM_{10}	0.05	0.01
ILEMSS (5)	ILE Maintenance Emissions (Attachment A)	$PM_{2.5}$	0.05	0.01
		SO_2	0.17	0.02
		H_2S	<0.01	<0.01
MSSFUG (5)	non-ILE Maintenance Emissions (Attachment B)	VOC	1.67	2.18
		Exempt Solvent	1.67	0.02

(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.

Emission Sources - Maximum Allowable Emission Rates

(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
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCl - hydrochloric acid
H_2S - hydrogen sulfide
MSS - maintenance, startup, and shutdown emissions

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

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(6) The pounds per hour and tons per year emission rate limits for these units apply to normal operation of the units as well as MSS operations.

(7) The emission limits for combusting natural gas and fuel oil during an averaging period are calculated as the average of the limits for each fuel proportionally weighted by each fuel's heat input to the unit during the period.

(8) This grouping includes the following vents: GT1AFTLORV, GT1AGELORV, GT1BFTLORV, GT1BGELORV, GT2AFTLORV, GT2AGELORV, GT2BFTLORV, GT2BGELORV, GT3AFTLORV, GT3AGELORV, GT3BFTLORV, GT3BGELORV, GT4AFTLORV, GT4AGELORV, GT4BFTLORV, and GT4BGELORV.

Date: _____