

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 130051 and PSDTX1450

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. (GE 7FA.05 Option)

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Fuel (3)	Operational Mode (4)	Air Contaminant Name (5)	Emission Rates	
					lbs/hr	TPY (6)
CT1	Unit 1 GE 7FA.05 Gas Turbine	NG	Normal	NO _x	69.7	156
				CO	42.4	153
				VOC	5.4	21.3
				PM	14	
				PM ₁₀	14	
				PM _{2.5}	14	
				SO ₂	30.5	8.6
				H ₂ SO ₄	4.7	1.3
			MSS	NO _x	72	
				CO	771	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	5.5	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	371	
			Normal	CO	107	
				VOC	3.3	
				PM	9.8	
			Normal and MSS	PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.5	
				H ₂ SO ₄	0.5	
			MSS	CO	864	
				VOC	39	
CT2	Unit 2 GE 7FA.05 Gas Turbine	NG	Normal	NO _x	69.7	156
				CO	42.4	153
				VOC	5.4	21.3
				PM	14	
				PM ₁₀	14	
				PM _{2.5}	14	

Emission Sources - Maximum Allowable Emission Rates

			MSS	SO ₂	30.5	8.6
				H ₂ SO ₄	4.7	1.3
				NO _x	72	(7)
				CO	771	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	5.5	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	371	(7)
				CO	107	
				VOC	3.3	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.5	
				H ₂ SO ₄	0.5	
			MSS	CO	864	
				VOC	39	
CT3	Unit 3 GE 7FA.05 Gas Turbine	NG	Normal	NO _x	69.7	156
				CO	42.4	153
				VOC	5.4	21.3
				PM	14	15.8
				PM ₁₀	14	
				PM _{2.5}	14	
				SO ₂	30.5	8.6
				H ₂ SO ₄	4.7	1.3
			MSS	NO _x	72	(7)
				CO	771	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	

Emission Sources - Maximum Allowable Emission Rates

		FO		SO ₂	5.5	(7)
				H ₂ SO ₄	0.8	
			Normal and MSS	NO _x	371	
			Normal	CO	107	
				VOC	3.3	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.5	
				H ₂ SO ₄	0.5	
			MSS	CO	864	
				VOC	39	
CT4	Unit 4 GE 7FA.05 Gas Turbine	NG	Normal	NO _x	69.7	156
				CO	42.4	153
				VOC	5.4	21.3
				PM	14	15.8
				PM ₁₀	14	
				PM _{2.5}	14	
				SO ₂	30.5	8.6
				H ₂ SO ₄	4.7	1.3
			MSS	NO _x	72	(7)
				CO	771	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	5.5	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	371	(7)
			Normal	CO	107	
				VOC	3.3	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	

Emission Sources - Maximum Allowable Emission Rates

			MSS	SO ₂	3.5
				H ₂ SO ₄	0.5
				CO	864
				VOC	39

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Fuel (3)	Operational Mode (4)	Air Contaminant Name (5)	Emission Rates	
					lbs/hr	TPY (6)
CT1	Unit 1 GE 7FA.04 Gas Turbine	NG	Normal	NO _x	62.6	140
				CO	38.1	127
				VOC	4.9	20.5
				PM	13.5	15.7
				PM ₁₀	13.5	
				PM _{2.5}	13.5	
				SO ₂	27.2	7.6
				H ₂ SO ₄	4.2	1.2
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	4.9	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	333	(7)
			Normal	CO	96.5	
				VOC	3.1	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.2	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
			MSS	VOC	18	
CT2	Unit 2 GE 7FA.04 Gas Turbine	NG	Normal	NO _x	62.6	140
				CO	38.1	127
				VOC	4.9	20.5
				PM	13.5	15.7
				PM ₁₀	13.5	
				PM _{2.5}	13.5	

Emission Sources - Maximum Allowable Emission Rates

			MSS	SO ₂	27.2	7.6
				H ₂ SO ₄	4.2	1.2
				NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	4.9	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	333	(7)
			Normal	CO	96.5	
				VOC	3.1	
				PM	9.8	
			Normal and MSS	PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.2	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
			MSS	VOC	18	
CT3	Unit 3 GE 7FA.04 Gas Turbine	NG	Normal	NO _x	62.6	140
				CO	38.1	127
				VOC	4.9	20.5
				PM	13.5	15.7
				PM ₁₀	13.5	
				PM _{2.5}	13.5	
				SO ₂	27.2	7.6
				H ₂ SO ₄	4.2	1.2
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	

Emission Sources - Maximum Allowable Emission Rates

		FO		SO ₂	4.9	(7)
				H ₂ SO ₄	0.8	
			Normal and MSS	NO _x	333	
			Normal	CO	96.5	
				VOC	3.1	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.2	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
			MSS	VOC	18	
CT4	Unit 4 GE 7FA.04 Gas Turbine	NG	Normal	NO _x	62.6	140
				CO	38.1	127
				VOC	4.9	20.5
				PM	13.5	15.7
				PM ₁₀	13.5	
				PM _{2.5}	13.5	
				SO ₂	27.2	7.6
				H ₂ SO ₄	4.2	1.2
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.1	
				PM ₁₀	10.1	
				PM _{2.5}	10.1	
				SO ₂	4.9	
				H ₂ SO ₄	0.8	
		FO	Normal and MSS	NO _x	333	(7)
			Normal	CO	96.5	
				VOC	3.1	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	

Emission Sources - Maximum Allowable Emission Rates

				SO ₂	3.2	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
			MSS	VOC	18	

Emission Sources - Maximum Allowable Emission Rates

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Emission Point No. (1)	Source Name (2)	Fuel (3)	Operational Mode (4)	Air Contaminant Name (5)	Emission Rates	
					lbs/hr	TPY (6)
CT1	Unit 1 GE 7FA.03 Gas Turbine	NG	Normal	NO _x	61.4	139
				CO	37.4	127
				VOC	4.8	20.3
				PM	13.3	15.7
				PM ₁₀	13.3	15.7
				PM _{2.5}	13.3	15.7
				SO ₂	26.3	7.4
				H ₂ SO ₄	4.0	1.1
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.0	
				PM ₁₀	10.0	
				PM _{2.5}	10.0	
				SO ₂	4.7	
				H ₂ SO ₄	0.7	
		FO	Normal and MSS	NO _x	338	(7)
			Normal	CO	98.1	
				VOC	3.1	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.1	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
				VOC	18	
CT2	Unit 2 GE 7FA.03 Gas Turbine	NG	Normal	NO _x	61.4	139
				CO	37.4	127
				VOC	4.8	20.3
				PM	13.3	15.7
				PM ₁₀	13.3	15.7

Emission Sources - Maximum Allowable Emission Rates

			MSS	PM _{2.5}	13.3	15.7
				SO ₂	26.3	7.4
				H ₂ SO ₄	4.0	1.1
				NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.0	
				PM ₁₀	10.0	
				PM _{2.5}	10.0	
				SO ₂	4.7	
				H ₂ SO ₄	0.7	
		FO	Normal and MSS	NO _x	338	(7)
			Normal	CO	98.1	
				VOC	3.1	
			Normal and MSS	PM	9.8	
				PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.1	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
				VOC	18	
CT3	Unit 3 GE 7FA.03 Gas Turbine	NG	Normal	NO _x	61.4	139
				CO	37.4	127
				VOC	4.8	20.3
				PM	13.3	15.7
				PM ₁₀	13.3	15.7
				PM _{2.5}	13.3	15.7
				SO ₂	26.3	7.4
				H ₂ SO ₄	4.0	1.1
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.0	
				PM ₁₀	10.0	

Emission Sources - Maximum Allowable Emission Rates

				PM _{2.5}	10.0	(7)
				SO ₂	4.7	
				H ₂ SO ₄	0.7	
		FO	Normal and MSS	NO _x	338	
				CO	98.1	
			Normal	VOC	3.1	
				PM	9.8	
			Normal and MSS	PM ₁₀	9.8	
				PM _{2.5}	9.8	
				SO ₂	3.1	
				H ₂ SO ₄	0.5	
			MSS	CO	768	
				VOC	18	
CT4	Unit 4 GE 7FA.03 Gas Turbine	NG	Normal	NO _x	61.4	139
				CO	37.4	127
				VOC	4.8	20.3
				PM	13.3	15.7
				PM ₁₀	13.3	15.7
				PM _{2.5}	13.3	15.7
				SO ₂	26.3	7.4
				H ₂ SO ₄	4.0	1.1
			MSS	NO _x	65.5	(7)
				CO	592	
				VOC	134	
				PM	10.0	
				PM ₁₀	10.0	
				PM _{2.5}	10.0	
				SO ₂	4.7	
				H ₂ SO ₄	0.7	
		FO	Normal and MSS	NO _x	338	(7)
				CO	98.1	
			Normal	VOC	3.1	
				PM	9.8	
			Normal and MSS	PM ₁₀	9.8	

Emission Sources - Maximum Allowable Emission Rates

				PM _{2.5}	9.8	
				SO ₂	3.1	
				H ₂ SO ₄	0.5	
				CO	768	
			MSS	VOC	18	

Emission Sources - Maximum Allowable Emission Rates

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Fuel (3)	Operational Mode (4)	Air Contaminant Name (5)	Emission Rates	
					lbs/hr	TPY (6)
CT1	Unit 1 Siemens SGT6-5000F(5)ee Gas Turbine	NG	Normal	NO _x	75.0	146
				CO	25.2	210
				VOC	1.8	22.7
				PM	13.7	18.4
				PM ₁₀	13.7	
				PM _{2.5}	13.7	
				SO ₂	32.3	9.3
				H ₂ SO ₄	4.9	1.4
			MSS	NO _x	139	(7)
				CO	1,531	
				VOC	180	
				PM	9.7	
				PM ₁₀	9.7	
				PM _{2.5}	9.7	
				SO ₂	5.8	
				H ₂ SO ₄	0.9	
		FO	Normal	NO _x	217	(7)
				CO	53	
				VOC	3.0	
			Normal and MSS	PM	30.5	
				PM ₁₀	30.5	
				PM _{2.5}	30.5	
				SO ₂	3.4	
				H ₂ SO ₄	0.5	
			MSS	NO _x	270	
				CO	3,180	
				VOC	374	
CT2	Unit 2 Siemens SGT6-5000F(5)ee Gas Turbine	NG	Normal	NO _x	75.0	146
				CO	25.2	210
				VOC	1.8	22.7

Emission Sources - Maximum Allowable Emission Rates

				PM	13.7	18.4
				PM ₁₀	13.7	
				PM _{2.5}	13.7	
				SO ₂	32.3	9.3
				H ₂ SO ₄	4.9	1.4
			MSS	NO _x	139	(7)
				CO	1,531	
				VOC	180	
				PM	9.7	
				PM ₁₀	9.7	
				PM _{2.5}	9.7	
				SO ₂	5.8	
				H ₂ SO ₄	0.9	
		FO	Normal	NO _x	217	(7)
				CO	53	
				VOC	3.0	
			Normal and MSS	PM	30.5	
				PM ₁₀	30.5	
				PM _{2.5}	30.5	
				SO ₂	3.4	
				H ₂ SO ₄	0.5	
			MSS	NO _x	270	
				CO	3,180	
				VOC	374	
CT3	Unit 3 Siemens SGT6-5000F(5)ee Gas Turbine	NG	Normal	NO _x	75.0	146
				CO	25.2	210
				VOC	1.8	22.7
				PM	13.7	18.4
				PM ₁₀	13.7	
				PM _{2.5}	13.7	
				SO ₂	32.3	9.3
				H ₂ SO ₄	4.9	1.4
			MSS	NO _x	139	
				CO	1,531	

Emission Sources - Maximum Allowable Emission Rates

				VOC	180	(7)
				PM	9.7	
				PM ₁₀	9.7	
				PM _{2.5}	9.7	
				SO ₂	5.8	
				H ₂ SO ₄	0.9	
		FO	Normal	NO _x	217	
				CO	53	
				VOC	3.0	
			Normal and MSS	PM	30.5	
				PM ₁₀	30.5	
				PM _{2.5}	30.5	
				SO ₂	3.4	
				H ₂ SO ₄	0.5	
			MSS	NO _x	270	
				CO	3,180	
				VOC	374	
CT4	Unit 4 Siemens SGT6-5000F(5)ee Gas Turbine	NG	Normal	NO _x	75.0	146
				CO	25.2	210
				VOC	1.8	22.7
				PM	13.7	18.4
				PM ₁₀	13.7	
				PM _{2.5}	13.7	
				SO ₂	32.3	9.3
				H ₂ SO ₄	4.9	1.4
			MSS	NO _x	139	(7)
				CO	1,531	
				VOC	180	
				PM	9.7	
				PM ₁₀	9.7	
				PM _{2.5}	9.7	
				SO ₂	5.8	
				H ₂ SO ₄	0.9	
		FO	Normal	NO _x	217	

Emission Sources - Maximum Allowable Emission Rates

			Normal and MSS	CO	53
				VOC	3.0
				PM	30.5
				PM ₁₀	30.5
				PM _{2.5}	30.5
				SO ₂	3.4
				H ₂ SO ₄	0.5
			MSS	NO _x	270
				CO	3,180
				VOC	374

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (5)	Emission Rates	
			lbs/hr	TPY (6)
EDG-1	1 MW Emergency Generator Unit 1 Caterpillar C32 Diesel Engine	NO _x	14.7	0.73
		CO	0.39	0.02
		VOC	0.03	<0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		SO ₂	0.02	<0.01
EDG-2	1 MW Emergency Generator Unit 2 Caterpillar C32 Diesel Engine	NO _x	14.7	0.73
		CO	0.39	0.02
		VOC	0.03	<0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		SO ₂	0.02	<0.01
FWP-1	Fire Water Pump 260 horsepower Diesel Engine	NO _x	1.7	0.09
		CO	1.5	0.07
		VOC	0.11	<0.01
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
		SO ₂	<0.01	<0.01
TNK-1	EDG1 Diesel Fuel Storage Tank 1	VOC	0.12	<0.01
TNK-2	EDG2 Diesel Fuel Storage Tank 2	VOC	0.12	<0.01
TNK-3	FWP Diesel Fuel Storage Tank	VOC	0.03	<0.01

Emission Sources - Maximum Allowable Emission Rates

TNK-4	Fuel Oil Storage Tank	VOC	2.11	0.05
TNK-5	Fuel Oil Storage Tank	VOC	2.11	0.05
CT1LOV	Unit 1 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
CT2LOV	Unit 2 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
CT3LOV	Unit 3 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
CT4LOV	Unit 4 Lube Oil Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
NGF	Natural Gas Component Fugitives (8)	VOC	0.04	0.18
LOF	Lube Oil Component Fugitives (8)	VOC	0.66	2.91
FOF	Fuel Oil Component Fugitives (8)	VOC	1.03	4.50
MSSFUG	Planned Maintenance Activity Fugitives (8)	NO _x	0.03	<0.01
		VOC	110	3.78
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

- (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) NG - natural gas
FO - fuel oil
- (4) Normal operation is defined in Special Condition No. 4. Maintenance, startup, and shutdown (MSS) emissions are described in Special Condition No. 11.
- (5) NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code (30 TAC) § 101.1
PM - particulate matter emissions, as defined in 30 TAC § 101.1, including PM₁₀, PM_{2.5} and H₂SO₄
PM₁₀ - particulate matter emissions equal to or less than 10 microns in diameter, including PM_{2.5} and H₂SO₄
PM_{2.5} - direct particulate matter emissions equal to or less than 2.5 microns in diameter, including H₂SO₄
SO₂ - sulfur dioxide
H₂SO₄ - sulfuric acid
- (6) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission rates for each source include planned MSS emissions.
- (7) The TPY emission rates for CTs under natural gas firing, normal operational mode are total limits including MSS and fuel oil backup.
- (8) Emission rate is an estimate and is enforceable through compliance with applicable special conditions and permit application representations.

Date: April 7, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX131

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for sources of GHG air contaminants on the applicant's property authorized by this permit. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

(GE 7FA.05 Option)

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Fuel (3)	Air Contaminant Name (4)	Emission Rates
				TPY (5)
CT1	Unit 1 GE 7FA.05 Gas Turbine	NG	CO ₂	401,620
			CH ₄	7.45
			N ₂ O	0.74
		FO	CO ₂	56,845
			CH ₄	2.32
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	459,069
CT2	Unit 2 GE 7FA.05 Gas Turbine	NG	CO ₂	401,620
			CH ₄	7.45
			N ₂ O	0.74
		FO	CO ₂	56,845
			CH ₄	2.32
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	459,069
CT3	Unit 3 GE 7FA.05 Gas Turbine	NG	CO ₂	401,620
			CH ₄	7.45
			N ₂ O	0.74
		FO	CO ₂	56,845
			CH ₄	2.32
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	459,069
CT4	Unit 4 GE 7FA.05 Gas Turbine	NG	CO ₂	401,620
			CH ₄	7.45
			N ₂ O	0.74
		FO	CO ₂	56,845
			CH ₄	2.32
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	459,069
CT1	Unit 1 GE 7FA.04 Gas Turbine	NG	CO ₂	358,618
			CH ₄	6.65
			N ₂ O	0.67
		FO	CO ₂	52,235
			CH ₄	2.13
			N ₂ O	0.43
		Total (NG,FO)	CO ₂ e	411,398

Emission Sources - Maximum Allowable Emission Rates

CT2	Unit 2 GE 7FA.04 Gas Turbine	NG	CO ₂	358,618
			CH ₄	6.65
			N ₂ O	0.67
		FO	CO ₂	52,235
			CH ₄	2.13
			N ₂ O	0.43
		Total (NG,FO)	CO ₂ e	411,398
CT3	Unit 3 GE 7FA.04 Gas Turbine	NG	CO ₂	358,618
			CH ₄	6.65
			N ₂ O	0.67
		FO	CO ₂	52,235
			CH ₄	2.13
			N ₂ O	0.43
		Total (NG,FO)	CO ₂ e	411,398
CT4	Unit 4 GE 7FA.04 Gas Turbine	NG	CO ₂	358,618
			CH ₄	6.65
			N ₂ O	0.67
		FO	CO ₂	52,235
			CH ₄	2.13
			N ₂ O	0.43
		Total (NG,FO)	CO ₂ e	411,398

Emission Sources - Maximum Allowable Emission Rates

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Fuel (3)	Air Contaminant Name (4)	Emission Rates
				TPY (5)
CT1	Unit 1 GE 7FA.03 Gas Turbine	NG	CO ₂	345,656
			CH ₄	6.41
			N ₂ O	0.64
		FO	CO ₂	50,601
			CH ₄	2.06
			N ₂ O	0.41
		Total (NG,FO)	CO ₂ e	396,783
CT2	Unit 2 GE 7FA.03 Gas Turbine	NG	CO ₂	345,656
			CH ₄	6.41
			N ₂ O	0.64
		FO	CO ₂	50,601
			CH ₄	2.06
			N ₂ O	0.41
		Total (NG,FO)	CO ₂ e	396,783
CT3	Unit 3 GE 7FA.03 Gas Turbine	NG	CO ₂	345,656
			CH ₄	6.41
			N ₂ O	0.64
		FO	CO ₂	50,601
			CH ₄	2.06
			N ₂ O	0.41
		Total (NG,FO)	CO ₂ e	396,783
CT4	Unit 4 GE 7FA.03 Gas Turbine	NG	CO ₂	345,656
			CH ₄	6.41
			N ₂ O	0.64
		FO	CO ₂	50,601
			CH ₄	2.06
			N ₂ O	0.41
		Total (NG,FO)	CO ₂ e	396,783

Emission Sources - Maximum Allowable Emission Rates

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Fuel (3)	Air Contaminant Name (4)	Emission Rates
				TPY (5)
CT1	Unit 1 Siemens SGT6-5000F(5)ee Gas Turbine	NG	CO ₂	418,903
			CH ₄	7.77
			N ₂ O	0.78
		FO	CO ₂	56,202
			CH ₄	2.29
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	475,724
CT2	Unit 2 Siemens SGT6-5000F(5)ee Gas Turbine	NG	CO ₂	418,903
			CH ₄	7.77
			N ₂ O	0.78
		FO	CO ₂	56,202
			CH ₄	2.29
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	475,724
CT3	Unit 3 Siemens SGT6-5000F(5)ee Gas Turbine	NG	CO ₂	418,903
			CH ₄	7.77
			N ₂ O	0.78
		FO	CO ₂	56,202
			CH ₄	2.29
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	475,724
CT4	Unit 4 Siemens SGT6-5000F(5)ee Gas Turbine	NG	CO ₂	418,903
			CH ₄	7.77
			N ₂ O	0.78
		FO	CO ₂	56,202
			CH ₄	2.29
			N ₂ O	0.46
		Total (NG,FO)	CO ₂ e	475,724

Emission Sources - Maximum Allowable Emission Rates

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (4)	Emission Rates
			TPY (5)
EDG-1	1 MW Emergency Generator Unit 1 Caterpillar C32 Diesel Engine	CO ₂	80.9
		CH ₄	<0.01
		N ₂ O	<0.01
		CO ₂ e	81.2
EDG-2	1 MW Emergency Generator Unit 2 Caterpillar C32 Diesel Engine	CO ₂	80.9
		CH ₄	<0.01
		N ₂ O	<0.01
		CO ₂ e	81.2
FWP-1	Fire Water Pump 260 horsepower Diesel Engine	CO ₂	14.3
		CH ₄	<0.01
		N ₂ O	<0.01
		CO ₂ e	14.3
NGF	Natural Gas Component Fugitives (6)	CO ₂	0.12
		CH ₄	8.01
		CO ₂ e	200.4
MSSFUG	Planned Maintenance Activity Fugitives (6)	CO ₂	<0.01
		CH ₄	<0.01
		CO ₂ e	0.1
SF6-FUG	Fugitives: Sulfur Hexafluoride from Circuit Breakers (6)	SF ₆	<0.01
		CO ₂ e	8.6

- (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) NG - natural gas; FO - fuel oil
- (4) CO₂ - carbon dioxide
CH₄ - methane
N₂O - nitrous oxide
SF₆ - sulfur hexafluoride
CO₂e - carbon dioxide equivalents, based on the following Global Warming Potentials from 40 CFR Part 98, Subpart A, Table A-1, effective January 1, 2015:
CO₂ (1), CH₄ (25), N₂O (298), SF₆ (22,800)
- (5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission limits include both normal and maintenance, startup, and shutdown (MSS) emissions.
- (6) Fugitive emission rates are estimates and are enforceable through compliance with applicable special conditions and permit application representations.

Date: April 7, 2016