

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 87225 and PSDTX1198

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)
CTG-CC-1	Siemens SGT6-5000F Turbine Stack Combined Cycle with 468 MMBtu/hr Duct Burner	CO	96.80	1059.55
		CO [Startup/Shutdown]	3184.50	
		NO _x	22.00	119.01
		NO _x [Startup/Shutdown]	148.50	
		PM	15.40	52.70
		PM ₁₀	15.40	52.70
		SO ₂	4.03	15.05
		VOC	13.20	105.69
		VOC [Startup/Shutdown]	306.90	
		H ₂ SO ₄	0.62	2.30
		NH ₃	40.70	152.02
CTG-CC-2	Siemens SGT6-5000F Turbine Stack Combined Cycle with 468 MMBtu/hr Duct Burner	CO	96.80	1059.55
		CO [Startup/Shutdown]	3184.50	
		NO _x	22.00	119.01
		NO _x [Startup/Shutdown]	148.50	
		PM	15.40	52.70
		PM ₁₀	15.40	52.70
		SO ₂	4.03	15.05
		VOC	13.20	105.69
		VOC [Startup/Shutdown]	306.90	
		H ₂ SO ₄	0.62	2.30
		NH ₃	40.70	152.02
CTWR	Plant Cooling Tower	PM	4.68	20.50

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		PM ₁₀	4.68	20.50
IAC-1	Inlet Air Chiller Cooling Tower	PM	0.27	1.18
		PM ₁₀	0.27	1.18
IAC-2	Inlet Air Chiller Cooling Tower	PM	0.27	1.18
		PM ₁₀	0.27	1.18
AUX-1	Auxiliary Boiler	CO	1.96	8.58
		NO _x	0.53	2.32
		PM	0.53	2.32
		PM ₁₀	0.53	2.32
		SO ₂	0.03	0.13
		VOC	0.32	1.40
ENG-1	Diesel-fired Firewater Engine	CO	1.58	0.40
		NO _x	7.35	1.84
		PM	0.52	0.13
		PM ₁₀	0.52	0.13
		PM _{2.5}	0.52	0.13
		SO ₂	0.084	0.021
		VOC	0.60	0.15
TK-1	Lube Oil Tank	VOC	1.88	0.01
TK-2	Waste Oil Tank	VOC	0.24	<0.01
TK-ENG1	ENG-1 Fuel Tank	VOC	0.04	<0.01
OWSEP	API Separator	VOC	<0.01	0.01
WO-LOAD	Waste Oil Loadout	VOC	0.09	<0.01
FUG-1	Site Fugitives (5)	VOC	0.41	1.78
HTR-1	Line Heater 1	CO	0.99	4.34
		NO _x	1.18	5.17
		PM	0.09	0.39
		PM ₁₀	0.09	0.39
		SO ₂	0.01	0.04

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		VOC	0.06	0.26
HTR-2	Line Heater 2	CO	0.99	4.34
		NO _x	1.18	5.17
		PM	0.09	0.39
		PM ₁₀	0.09	0.39
		SO ₂	0.01	0.04
		VOC	0.06	0.26
LOR-1	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
LOR-2	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
LOR-3	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01

- (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
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
CO - carbon monoxide
H₂SO₄ - sulfuric acid
NH₃ - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: August 18, 2016