

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 83503 and PSD-TX-1111

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)	Emission Rates *	
			lb/hr	TPY**
CTG-1	Combustion Turbine 1 Combined Cycle Stack, including Duct Burner and SCR System	NO _x	22.00	119.66
		NO _x (4)	148.50	---
		SO ₂	3.97	14.91
		CO	95.70	1079.21
		CO (4)	3184.50	---
		VOC	13.20	107.40
		VOC (4)	306.90	---
		PM/PM ₁₀	15.40	52.80
		H ₂ SO ₄	0.61	2.28
		NH ₃	40.70	152.48
CTG-2	Combustion Turbine 2 Combined Cycle Stack, including Duct Burner and SCR System	NO _x	22.00	119.66
		NO _x (4)	148.50	---
		SO ₂	3.97	14.91
		CO	95.70	1079.21
		CO (4)	3184.50	---
		VOC	13.20	107.40
		VOC (4)	306.90	---
		PM/PM ₁₀	15.40	52.80
		H ₂ SO ₄	0.61	2.28
		NH ₃	40.70	152.48
CTG-3	Combustion Turbine 3 Combined Cycle Stack, including Duct Burner and SCR System	NO _x	22.00	119.66
		NO _x (4)	148.50	---
		SO ₂	3.97	14.91
		CO	95.70	1079.21
		CO (4)	3184.50	---
		VOC	13.20	107.40
		VOC (4)	306.90	---
		PM/PM ₁₀	15.40	52.80
		H ₂ SO ₄	0.61	2.28
		NH ₃	40.70	152.48

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
CTG-4	Combustion Turbine 4 Combined Cycle Stack, including Duct Burner and SCR System	NO _x	22.00	119.66
		NO _x (4)	148.50	---
		SO ₂	3.97	14.91
		CO	95.70	1079.21
		CO (4)	3184.50	---
		VOC	13.20	107.40
		VOC (4)	306.90	---
		PM/PM ₁₀	15.40	52.80
		H ₂ SO ₄	0.61	2.28
		NH ₃	40.70	152.48
CTWR-1	Plant Cooling Tower	PM/PM ₁₀	4.05	17.74
CTWR-2	Plant Cooling Tower	PM/PM ₁₀	4.05	17.74
IAC-1	Inlet Air Chiller System Cooling Tower	PM/PM ₁₀	0.24	1.05
IAC-2	Inlet Air Chiller System Cooling Tower	PM/PM ₁₀	0.24	1.05
IAC-3	Inlet Air Chiller System Cooling Tower	PM/PM ₁₀	0.24	1.05
IAC-4	Inlet Air Chiller System Cooling Tower	PM/PM ₁₀	0.24	1.05
AUX-1	Auxiliary Boiler	NO _x	0.42	1.84
		SO ₂	0.02	0.09
		CO	1.55	6.79
		VOC	0.25	1.10
		PM/PM ₁₀	0.42	1.84

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AUX-2	Auxiliary Boiler	NO _x	0.42	1.84
		SO ₂	0.02	0.09
		CO	1.55	6.79
		VOC	0.25	1.10
		PM/PM ₁₀	0.42	1.84
AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ENG-1	Diesel-Fired Firewater Engine	NO _x	7.75	1.94
		SO ₂	0.51	0.13
		CO	1.67	0.42
		VOC	0.63	0.16
		PM/PM ₁₀	0.55	0.14
ENG-2	Diesel-Fired Emergency Engine	NO _x	35.24	8.81
		SO ₂	0.12	0.03
		CO	1.88	0.47
		VOC	1.88	0.47
		PM/PM ₁₀	0.17	0.04
TK-1	Lube Oil Tank	VOC	1.00	0.01
TK-2	Waste Oil Tank	VOC	0.13	<0.01
TK-ENG1	ENG-1 Fuel Tank	VOC	0.02	<0.01
TK-ENG2	ENG-2 Fuel Tank	VOC	0.14	<0.01
OWSEP	API Separator	VOC	<0.01	0.01
WO-LOAD	Waste Oil Loadout	VOC	0.09	<0.01
FUG-1	Site Fugitives	VOC	0.81	3.55
HTR-1	Line Heater 1	NO _x	1.18	5.17
		SO ₂	0.01	0.04
		CO	0.99	4.34
		VOC	0.06	0.26
		PM/PM ₁₀	0.09	0.39
HTR-2	Line Heater 2	NO _x	1.18	5.17
		SO ₂	0.01	0.04
		CO	0.99	4.34
		VOC	0.06	0.26
		PM/PM ₁₀	0.09	0.39

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

HTR-3	Line Heater 3	NO _x	1.18	5.17
		SO ₂	0.01	0.04
		CO	0.99	4.34
		VOC	0.06	0.26
		PM/PM ₁₀	0.09	0.39
AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
HTR-4	Line Heater 4	NO _x	1.18	5.17
		SO ₂	0.01	0.04
		CO	0.99	4.34
		VOC	0.06	0.26
		PM/PM ₁₀	0.09	0.39
LOR-1	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
LOR-2	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
LOR-3	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
LOR-4	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
LOR-5	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
LOR-6	Lube Oil Reservoir Vapor Extractor Vent	VOC	<0.01	0.01
		PM	<0.01	0.01
Maintenance Painting	Maintenance Painting (and Thinner Use)	VOC	50.00	3.75
		PM/PM ₁₀	9.09	0.68
Maintenance Sandblasting	Maintenance Grit Blasting	PM	1.48	0.15
		PM ₁₀	0.35	0.04
Degreasers	Solvent Degreasers (three)	VOC	5.04	0.27

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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
PM₁₀ - particulate matter, suspended in the atmosphere, equal to or less than 10 microns in diameter
CO - carbon monoxide
H₂SO₄ - sulfuric acid
NH₃ - ammonia
- (4) Emission limits during start-up, shutdown, or maintenance operations (SSM). SSM event emissions are included in annual ton per year emissions.
- (5) Fugitive emissions are an estimate only, and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

* 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

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated October 10, 2008