

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 38191 and PSD-TX-906

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 (4)	TPY

Hourly Allowables for each Stack

Natural Gas-Fueled Normal Operation and Operation at Reduced Load (5)

STACK 1, STACK 2, STACK 3, and STACK 4	ABB Model GT24 Gas Turbine in Combined Cycle with HRSG and Steam Turbine 275 MW _e , each	NO _x	34
		CO	254
		VOC	17.6
		PM ₁₀	24
		SO ₂	5
		NH ₃	26.8

Emergency/Standby No. 2 Fuel Oil Operation

(With no more than three units operating at the same time) (5)

STACK 1, STACK 2, STACK 3, and STACK 4	ABB Model GT24 Gas Turbine in Combined Cycle with HRSG and Steam Turbine 275 MW _e , each	NO _x	75
		CO	310
		VOC	18
		PM ₁₀	111
		SO ₂	109
		NH ₃	31.8

Annual Allowables (Natural Gas and No. 2 Fuel Oil Use) for each Stack (5)

STACK 1, STACK 2, STACK 3, and STACK 4	ABB Model GT24 Gas Turbine in Combined Cycle with HRSG and Steam Turbine 275 MW _e , each	NO _x	151.6
		CO	259.3
		VOC	31.9
		PM ₁₀	121.3
		SO ₂	56.3
		NH ₃	119.2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr (4)</u>	<u>TPY</u>

Allowables for each Stack

Natural Gas-Fueled Normal Operation and Operation at Reduced Load (5)

STACK5 and STACK6	ABB Model GT24 Gas Turbine in Combined Cycle with HRSG and Steam Turbine 250 MW _e , each	NO _x	34	131.4
		CO	254	197.1
		VOC	3.1	11.4
		PM ₁₀	20	83.2
		SO ₂	4	17.5
		NH ₃	26.8	119.2

Tank 1	Fuel Oil Storage 2.2 Million Gallon Diesel	VOC	0.14	0.27
--------	---	-----	------	------

Tank 2	Fuel Oil Storage 2.2 Million Gallon Diesel	VOC	0.14	0.27
--------	---	-----	------	------

Allowables for each of six 500-Gallon Diesel Tanks

EMTANK1-6	Fuel Oil Storage	VOC	0.01	0.01
-----------	------------------	-----	------	------

Allowables for each of six Ammonia Injection Grid Stacks

IG1-6	Ammonia Injection	NH ₃	0.141	0.62
-------	-------------------	-----------------	-------	------

Allowables for each of six Ammonia Vaporizer Stacks

V1-6	Ammonia Vaporizer	NH ₃	0.141	0.62
------	-------------------	-----------------	-------	------

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) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it

shall be assumed that no particulate matter greater than 10 microns is emitted.

CO - carbon monoxide

NH₃ - ammonia

(4) The concentration limits for the gas turbines listed in the permit conditions apply and may be a more stringent requirement than the mass emission rate limits listed in this table.

(5) These emissions are permitted under PSD.

* Annual 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

Dated _____