

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9664 and PSD-TX-662M1

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)	Name (3)	Air Contaminant lb/hr TPY	Emission Rates *	
<u>Case I: Turbines Firing Natural Gas **</u>					
CT1	101 MWe GE MS7001EA		VOC	9.30	27.90
			NO _x	404.00	1212.00
			SO ₂	16.30	48.90
			PM	20.60	61.80
			CO	23.00	69.00
CT2	101 MWe GE MS7001EA		VOC	9.30	27.90
			NO _x	404.00	1212.00
			SO ₂	16.30	48.90
			PM	20.60	61.80
			CO	23.00	69.00
CT3	101 MWe GE MS7001EA		VOC	9.30	27.90
			NO _x	404.00	1212.00
			SO ₂	16.30	48.90
			PM	20.60	61.80
			CO	23.00	69.00
CT4	101 MWe GE MS7001EA		VOC	9.30	27.90
			NO _x	404.00	1212.00
			SO ₂	16.30	48.90
			PM	20.60	61.80
			CO	23.00	69.00
CT1-4	Total Combined Emission Limits		NO _x	1616.00	1212.00
			SO ₂	65.20	48.90
			PM	82.40	61.80

Case II: Turbines Firing Fuel Oil **

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
CT1	101 MWe GE MS7001EA	VOC	9.40	28.20
		NO _x	404.00	1212.00
		SO ₂	559.00	1677.00
		PM	56.30	169.00
		CO	23.00	69.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
CT2	101 MWe GE MS7001EA	VOC	9.40	28.20
		NO _x	404.00	1212.00
		SO ₂	559.00	1677.00
		PM	56.30	169.00
		CO	23.00	69.00
CT3	101 MWe GE MS7001EA	VOC	9.40	28.20
		NO _x	404.00	1212.00
		SO ₂	559.00	1677.00
		PM	56.30	169.00
		CO	23.00	69.00
CT4	101 MWe GE MS7001EA	VOC	9.40	28.20
		NO _x	404.00	1212.00
		SO ₂	559.00	1677.00
		PM	56.30	169.00
		CO	23.00	69.00
CT1-4	Total Combined Emission Limits	NO _x	1616.00	1212.00
		SO ₂	2236.00	1677.00
		PM	225.20	169.00

* Emission rates are based on and the turbines are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 6,000 ***

** The turbines (EPNs CT1 through CT4) have undergone PSD review for emissions of NO_x, SO₂, and PM. Auxiliary Boiler B (EPN ABBS1) and the diesel generator (EPN CTEDG) have not undergone PSD review.

*** Annual emission limits for the plant are based on 6,000 hours at 101 MWe or 606,000 megawatt-hours per year.

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			lb/hr	TPY
ABBS1	Auxiliary Boiler B Stack - Keystone #17M	VOC	0.22	0.16
		NO _x	31.80	23.06
		SO ₂	2.21	1.60
		PM	0.46	0.33
		CO	31.80	23.06

* Emission rates are based on and Auxiliary Boiler B is limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 1450

CTEDG	2,113 Horsepower Emergency Diesel Generator	VOC	1.50	0.08
		NO _x	44.60	2.23
		SO ₂	7.90	0.40
		PM	5.30	0.27
		CO	13.70	0.69

* Emission rates are based on and the generator is limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 100

- (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 General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter
 CO - carbon monoxide

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

Dated _____