

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

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

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Permit Numbers 43890 and PSD-TX-965

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

Hourly Allowables (5)  
for each of four GE 7FAs

Stack 1,	DLN and SCR,	NO <sub>x</sub>	37.8
Stack 2,	Without HRSG Duct Burner	CO	33.6
Stack 3,	Operation	VOC	3.2
and Stack 4		PM <sub>10</sub>	20.3
		SO <sub>2</sub>	4.5
		NH <sub>3</sub>	19.6
Stack 1,	DLN and SCR	NO <sub>x</sub>	48.5
Stack 2,	each with Natural Gas-Fired	CO	99.0
Stack 3,	610 MM Btu/hour HRSG	VOC	16.4
and Stack 4	Duct Burners in Operation	PM <sub>10</sub>	27.1
		SO <sub>2</sub>	6.0
		NH <sub>3</sub>	25.8

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## AIR CONTAMINANTS DATA

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

## Annual Allowables (5)

for each of four GE 7FAs with Duct Burners

Stack 1, Stack 2, Stack 3, and Stack 4	DLN and SCR Technology, with Natural Gas-Fired 610 MM Btu/hour HRSG	NO <sub>x</sub>		166.5
		CO		296.8
		VOC		45.6
		PM <sub>10</sub>		105.4
		SO <sub>2</sub>		22.1
		NH <sub>3</sub>	95.8	
COOL1	Cooling Tower 1	PM <sub>10</sub>	2.55	4.45
COOL2	Cooling Tower 2	PM <sub>10</sub>	2.55	4.45
COOL3	Cooling Tower 3	PM <sub>10</sub>	2.55	4.45
COOL4	Cooling Tower 4	PM <sub>10</sub>	2.55	4.45
Auxboil	Auxiliary Boiler	NO <sub>x</sub>	6.98	15.69
		CO	6.51	14.65
		VOC	0.70	1.57
		PM <sub>10</sub>	0.49	1.11
		SO <sub>2</sub>	0.22	0.50

## For each of Two FWD Tanks

Fwdtank1 and Fwdtank2	Fire Water Diesel Tanks	VOC	0.02	0.01
Coagaid	Coagulant Aid Tank	VOC	0.12	0.01
Tankedg	Emergency Diesel Tank	VOC	0.07	0.01
FWP	Fire Water Pump	NO <sub>x</sub>	10.39	2.60
		CO	2.24	0.56

Emgen	Emergency Diesel Engine Generator Set	PM <sub>10</sub>	VOC	0.84	0.21
			0.74	0.18	
			SO <sub>2</sub>	0.69	0.17
		PM <sub>10</sub>	NO <sub>x</sub>	12.40	3.10
			CO	2.67	0.67
			VOC	1.01	0.25
			0.88	0.22	
			SO <sub>2</sub>	0.82	0.21
Fugitives A	Ammonia Handling		NH <sub>3</sub>	0.21	0.90
Fugitives B	Natural Gas Handling		VOC	0.23	1.02

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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 area name or fugitive source name.
- (3)
  - NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM<sub>10</sub> - 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.
  - SO<sub>2</sub> - sulfur dioxide
  - NH<sub>3</sub> - 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.

Duct burner operation is limited to 5,000 hours per year for each HRSG.

Auxiliary Boiler operation is limited to 4,500 hours per year.

Dated \_\_\_\_\_