

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 45586 and PSD-TX-1055

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**
ESJ-1A	CFB Boiler Normal Operations	NO <sub>x</sub>	185.54	812.60
		CO	397.58	1741.38
		VOC 13.25	58.05	
		PM/PM <sub>10</sub>	136.29	596.71
		SO <sub>2</sub> 472.80	2070.86	
		H <sub>2</sub> SO <sub>4</sub> 96.53	422.80	
		HCl 2.03	8.87	
		HF 0.27	1.18	
		Pb 0.01	0.026	
		Hg 0.01	0.035	
		NH <sub>3</sub> 16.47	36.08	
ESJ-1A	CFB Boiler Start-Up	NO <sub>x</sub>	207.84	---
		CO	397.58	---
		VOC 13.25	---	
		PM/PM <sub>10</sub>	136.29	---
		SO <sub>2</sub> 2393.88	---	
		H <sub>2</sub> SO <sub>4</sub> 254.79	---	
		HCl 20.11	---	
		HF 2.68	---	
		Pb 0.01	---	
		Hg 0.01	---	
		NH <sub>3</sub> 16.47	---	
ESJ-2A	Emergency Generator	NO <sub>x</sub>	30.56	7.64
		CO 37.65	9.41	
		VOC 4.43	1.11	
		PM/PM <sub>10</sub>	1.77	0.44
		SO <sub>2</sub> 0.04	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
ESJ-3A	Diesel Fire Pump Engine	NO <sub>x</sub>	2.31	0.58
		CO	2.85	0.71
		VOC	0.33	0.08
		PM/PM <sub>10</sub>	0.13	0.03
		SO <sub>2</sub>	0.003	0.001
ESJ-4A	Auxiliary Boiler	NO <sub>x</sub>	2.32	0.93
		CO	5.30	2.12
		VOC	0.36	0.14
		PM/PM <sub>10</sub>	0.46	0.19
		SO <sub>2</sub>	0.04	0.02
ESJ-5A	Acid Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
ESJ-6A	Caustic Tank	NaOH	<0.01	<0.01
ESJ-7A	Fly Ash Silo	PM/PM <sub>10</sub>	0.34	1.50
ESJ-8A	Bottom Ash Silo	PM/PM <sub>10</sub>	0.17	0.75
ESJ-9A	Coke Silo	PM/PM <sub>10</sub>	0.34	1.50
ESJ-10A	Limestone Silo	PM/PM <sub>10</sub>	0.34	1.50
ESJ-11A	Sand Silo	PM/PM <sub>10</sub>	0.17	0.75
ESJ-12A	Bottom Ash Transfer Hopper	PM/PM <sub>10</sub>	0.17	0.75
PCPREPST	Petcoke Preparation Building Stack	PM/PM <sub>10</sub>	0.60	2.63
PC-FUG	Petcoke Preparation Building (4)	PM/PM <sub>10</sub>	0.05	0.05
CO-31	Conveyor CO-31 (4)	PM/PM <sub>10</sub>	0.07	0.07

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TR-30	CO-31 to CO-32 (4)	PM/PM <sub>10</sub>	0.03	0.03
CO-32	Conveyor CO-32 (4)	PM/PM <sub>10</sub>	0.03	0.03
TR-31	CO-32 to Coke Silo (4)	PM/PM <sub>10</sub>	0.03	0.03
LSPREPST	Limestone Preparation Building Stack	PM/PM <sub>10</sub>	0.60	2.63
LS-FUG	Limestone Preparation Building (4)	PM PM <sub>10</sub>	0.13 0.06	0.06 0.03
CO-35	Conveyor 35 (4)	PM PM <sub>10</sub>	0.004 0.001	0.002
TR-32	CO-35 to CO-36 (4)	PM PM <sub>10</sub>	0.002 0.001	0.001
CO-36	Conveyor 36 (4)	PM PM <sub>10</sub>	0.002 0.001	0.001
TR-33	CO-36 to Limestone Silo (4)	PM PM <sub>10</sub>	0.002 0.001	0.001
FUG-AMM	Ammonia Fugitives (4)	NH <sub>3</sub>	0.05	0.21

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

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- (2) Specific point source names. For fugitive sources, use an 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 - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.  
SO<sub>2</sub> - sulfur dioxide  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
HCl - hydrogen chloride  
HF - hydrogen fluoride  
Pb - lead  
NaOH - sodium hydroxide  
Hg - mercury  
NH<sub>3</sub> - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

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

\_\_\_\_\_Hrs/day \_\_\_\_\_Days/week \_\_\_\_\_Weeks/year or 8,760 Hrs/year