

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 _x	185.54	812.60
		CO	397.58	1741.38
		VOC	13.25	58.05
		PM/PM ₁₀	136.29	379.62
		SO ₂	472.80	2070.86
		H ₂ SO ₄	96.53	422.80
		HCl	2.03	8.87
		HF	0.27	1.18
		Pb	0.01	0.026
		Hg	0.01	0.007
		NH ₃	16.47	36.08
ESJ-1A	CFB Boiler Start-Up	NO _x	207.84	---
		CO	397.58	---
		VOC	13.25	---
		PM/PM ₁₀	136.29	---
		SO ₂	2393.88	---
		H ₂ SO ₄	254.79	---
		HCl	20.11	---
		HF	2.68	---
		Pb	0.01	---
		Hg	0.01	---
		NH ₃	16.47	---
ESJ-2A	Emergency Generator	NO _x	30.56	7.64
		CO	37.65	9.41
		VOC	4.43	1.11
		PM/PM ₁₀	1.77	0.44
		SO ₂	0.04	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ESJ-3A	Diesel Fire Pump Engine	NO _x	2.31	0.58
		CO	2.85	0.71
		VOC	0.33	0.08
		PM/PM ₁₀	0.13	0.03
		SO ₂	0.003	0.001
ESJ-4A	Auxiliary Boiler	NO _x	2.32	0.93
		CO	5.30	2.12
		VOC	0.36	0.14
		PM/PM ₁₀	0.46	0.19
		SO ₂	0.04	0.02
ESJ-5A	Acid Tank	H ₂ SO ₄	<0.01	<0.01
ESJ-6A	Caustic Tank	NaOH	<0.01	<0.01
ESJ-7A	Fly Ash Silo	PM ₁₀	0.34	1.50
ESJ-8A	Bottom Ash Silo	PM ₁₀	0.17	0.75
ESJ-9A	Coke Silo	PM ₁₀	0.34	1.50
ESJ-10A	Limestone Silo	PM ₁₀	0.34	1.50
ESJ-11A	Sand Silo	PM ₁₀	0.17	0.27
ESJ-12A	Bottom Ash Transfer Hopper	PM ₁₀	0.17	0.75
PCPREPST	Petcoke Preparation Building Stack	PM ₁₀	0.60	2.63
PC-FUG	Petcoke Preparation Building (4)	PM/PM ₁₀	0.05	0.05

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			lb/hr	TPY**
CO-31	Conveyor CO-31 (4)	PM/PM ₁₀	0.07	0.07
TR-30	CO-31 to CO-32 (4)	PM/PM ₁₀	0.03	0.03
CO-32	Conveyor CO-32 (4)	PM/PM ₁₀	0.03	0.03
TR-31	CO-32 to Coke Silo (4)	PM/PM ₁₀	0.03	0.03
LSPREPST	Limestone Preparation Building Stack	PM ₁₀	0.60	2.63
LS-FUG	Limestone Preparation Building (4)	PM	0.13	0.09
		PM ₁₀	0.06	0.05
CO-35	Conveyor 35 (4)	PM	0.004	0.003
		PM ₁₀	0.002	0.002
TR-32	CO-35 to CO-36 (4)	PM	0.002	0.002
		PM ₁₀	0.001	0.001
CO-36	Conveyor 36 (4)	PM	0.002	0.002
		PM ₁₀	0.001	0.001
TR-33	CO-36 to Limestone Silo (4)	PM	0.002	0.002
		PM ₁₀	0.001	0.001
FUG-AMM	Ammonia Fugitives (4)	NH ₃	0.05	0.21

(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) NO_x - total oxides of nitrogen

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- 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 PM₁₀
PM₁₀ - 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.
SO₂ - sulfur dioxide
H₂SO₄ - sulfuric acid
HCl - hydrogen chloride
HF - hydrogen fluoride
Pb - lead
Hg - mercury
NH₃ - ammonia
NaOH - sodium hydroxide
- (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

Dated April 29, 2009