EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 45586 and PSDTX1055

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	291.55	1277.01
		VOC	13.25	58.05
		PM/PM_{10}	86.67 (5)	379.62 (5)
		SO_2	157.60	620.29
		H_2SO_4	28.96	126.84
		HCl	0.81	3.55
		HF	0.27	1.18
		Pb	0.01	0.026
		Hg	0.002	0.001
		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_2SO_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_2SO_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
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 PM_{10}	0.13 0.06	0.09 0.05
CO-35	Conveyor 35 (4)	PM PM_{10}	0.004 0.002	0.003 0.002
TR-32	CO-35 to CO-36 (4)	PM PM_{10}	0.002 0.001	0.002 0.001
CO-36	Conveyor 36 (4)	PM PM_{10}	0.002 0.001	0.002 0.001
TR-33	CO-36 to Limestone Silo (4)	PM PM_{10}	0.002 0.001	0.002 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
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_{10}
PM_{10} - 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.
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter.
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid

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HCl - hydrogen chloride
HF - hydrogen fluoride
Pb - lead
Hg - mercury
NH_3 - ammonia
NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) This limit for PM and PM_{10} emissions includes emissions of $PM_{2.5}$.

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

____Hrs/day ____Days/week ____Weeks/year or _8,760_ Hrs/year

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

Dated January 25, 2011