

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	596.71
		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	0.035	
		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	

ESJ-3A

Diesel Fire Pump Engine

NO_x

2.31

0.58

CO 2.85

0.71

VOC 0.33

0.08

PM/PM₁₀

0.13

0.03

SO₂ 0.003

0.001

ESJ-4A	Auxiliary Boiler	NO _x	2.32	0.93
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VOC 0.36

0.14

PM/PM₁₀

0.46

0.19

SO₂ 0.04

0.02

ESJ-5A

Acid Tank

H₂SO₄

<0.01

<0.01

ESJ-6A

Caustic Tank

NaOH

<0.01

<0.01

ESJ-7A

Fly Ash Silo

PM₁₀

0.34

1.50

ESJ-8A

Bottom Ash Silo

PM₁₀

0.17

0.75

ESJ-9A

Coke Silo

PM₁₀

0.34

1.50

ESJ-10A

Limestone Silo

PM₁₀

0.34

1.50

ESJ-11A

Sand Silo

PM₁₀

0.17

0.27

ESJ-12A

Bottom Ash Transfer

PM₁₀

0.17

0.75

Hopper

Building Stack

PC-FUG

Petcoke Preparation

PM/PM₁₀

0.05

0.05

Building (4)

CO-31	Conveyor CO-31 (4)	PM/PM ₁₀	0.07	0.07
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TR-30

CO-31 to CO-32 (4)

PM/PM₁₀

0.03

0.03

CO-32

Conveyor CO-32 (4)

PM/PM₁₀

0.03

0.03

TR-31

CO-32 to Coke Silo (4)

PM/PM₁₀

0.03

0.03

LSPREPST	Limestone Preparation	PM ₁₀	0.60	2.63
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Building Stack

LS-FUG

Limestone Preparation

PM

0.13

0.09

Building (4)

PM₁₀

0.06

0.05

CO-35

Conveyor 35 (4)

PM

0.004

0.003

PM₁₀ 0.002

0.002

TR-32

CO-35 to CO-36 (4)

PM

0.002

0.002

PM₁₀ 0.001

0.001

CO-36

Conveyor 36 (4)

PM

0.002

0.002

PM₁₀ 0.001

0.001

PM₁₀ 0.001

0.001

FUG-AMM

Ammonia Fugitives (4)

NH₃

0.05

0.21

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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 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

H_2SO_4 - sulfuric acid

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.

* 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 August 20, 2007