

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 91823

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
1	Boiler Stack	NO _x	48.75	213.53
		NO _x	125.0	-
		(startup/shutdown)	19.50	56.94
		SO ₂	30.55	-
		SO ₂	45.50	199.29
		(startup/shutdown)	117.0	-
		CO	6.50	28.47
		CO	9.10	-
		(startup/shutdown)	16.25	71.18
		VOC	16.25	71.18
		VOC	16.25	71.18
		(startup/shutdown)	3.45	15.09
		PM	2.60	8.54
		PM ₁₀	0.03	0.14
		PM _{2.5}		
		NH ₃		
		HCl		
		Pb		
2	Cooling Tower	PM	0.24	1.07
		PM ₁₀	0.14	0.60
		PM _{2.5}	0.14	0.60
3	Emergency Diesel Generator	NO _x	10.57	0.52
		CO	5.73	0.30
		VOC	10.57	0.52
		PM/PM ₁₀ /PM _{2.5}	0.33	0.02
		SO ₂	0.01	<0.01
4	Diesel Fire Pump	NO _x	2.11	0.10

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		CO	2.14	0.11
		VOC	2.11	0.10
		PM/PM ₁₀ /PM _{2.5}	0.11	0.01
		SO ₂	0.66	0.03
5	Sorbent Storage Silo Bin	PM	0.01	0.05
	Vent Filter	PM ₁₀	0.01	0.04
		PM _{2.5}	<0.01	0.01
6	Ash Storage Silo Bin	PM	0.02	0.09
	Filter	PM ₁₀	0.02	0.07
		PM _{2.5}	0.01	0.02
7	Ash Storage Silo Pug	PM	0.08	0.33
	Mill Conditioner	PM ₁₀	0.03	0.12
		PM _{2.5}	0.01	0.02
8	Backup Ash Storage Silo	PM	0.08	0.33
	Pug Mill Conditioner	PM ₁₀	0.03	0.12
		PM _{2.5}	0.01	0.02
9	Vacuum Blower Exhaust	PM	0.03	0.13
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.01	0.03
10	Spare Vacuum Blower	PM	0.03	0.13
	Exhaust	PM ₁₀	0.02	0.10
		PM _{2.5}	0.01	0.03
11	Bottom Ash Transfer	PM	<0.01	<0.01
	Conveyor	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
12	Bottom Ash Extraction	PM	<0.01	<0.01
	Conveyor #1	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
13	Bottom Ash Extraction	PM	<0.01	<0.01
	Conveyor #2	PM ₁₀	<0.01	<0.01

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		PM _{2.5}	<0.01	<0.01
14	Bottom Ash Extraction Conveyor #3	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
15	Bottom Ash Extraction Conveyor #4	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
16	Emergency Ash Container Dump to Bottom Ash Transfer Conveyor	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
17	Bottom Ash Transfer Conveyor from Bottom Ash Extraction Conveyor #1	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
18	Bottom Ash Transfer Conveyor from Bottom Ash Extraction Conveyor #2	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
19	Bottom Ash Transfer Conveyor from Bottom Ash Extraction Conveyor #3	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
20	Bottom Ash Transfer Conveyor from Bottom Ash Extraction Conveyor #4	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
21	Boiler Metering Bin 1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
22	Boiler Metering Bin 2	PM	<0.01	0.01

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		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
23	Facility Feed Crossover Conveyor to Boiler Metering Bin #1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
24	Facility Feed Crossover Conveyor to Boiler Metering Bin #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
25	Boiler Building Gate #1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
26	Boiler Building Gate #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
27	Scalping Screen Feed to Fuel Stackout Conveyor	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
28	Wood Hog Feed to Fuel Stackout Conveyor	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
29	Wood Hog	PM	0.10	0.11
		PM ₁₀	0.04	0.05
		PM _{2.5}	<0.01	<0.01
30	Scalping Screen	PM	0.09	0.08
		PM ₁₀	0.03	0.03
		PM _{2.5}	<0.01	<0.01
31	Fuel Preparation Tower Gate	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
32	Fuel Unloading	PM	0.01	0.02

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	Conveyor	PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
33	Fuel Stackout Conveyor	PM	0.01	0.02
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
34	Facility Feed Conveyor #1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
35	Facility Feed Conveyor #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
36	Portable Hopper Feed to Facility Feed Conveyor #1	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
37	Portable Hopper Feed to Facility Feed Conveyor #2	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
38	Facility Feed Conveyor #1 Feed from Screw Reclaimer #1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
39	Facility Feed Conveyor #2 Feed from Screw Reclaimer #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
40	30 Day Fuel Storage Pile	PM	0.79	3.47
		PM ₁₀	0.21	0.92
		PM _{2.5}	0.06	0.26
41	Dozer Feed to Portable Hopper on Facility Conveyor #1 or #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
42	1 Day Fuel Unloading	PM	0.06	0.28

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	Stockpile	PM ₁₀	0.02	0.08
		PM _{2.5}	<0.01	0.02
43	Emergency Fuel Bypass Pile #1	PM	0.07	0.30
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.01	0.02
44	Emergency Fuel Bypass Pile #2	PM	0.07	0.30
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.01	0.02
45	Emergency Stockpile	PM	0.07	0.30
		PM ₁₀	0.02	0.08
		PM _{2.5}	0.01	0.02
46	Dozer Feed to Portable Hopper on Fuel Unloading Conveyor	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
47	Portable Hopper Feed to Fuel Unloading Conveyor	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
48	Fuel Unloading Conveyor Feed from Unloading Hopper #1	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
49	Fuel Unloading Conveyor Feed from Unloading Hopper #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
50	Unloading Hopper #1 Gate	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
51	Unloading Hopper #2 Gate	PM	0.01	0.03
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
52	Truck Dump #1	PM	<0.01	0.01

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		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
53	Truck Dump #2	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
54	Ammonia Storage/Feed System	NH ₃	0.02	0.07
55	Fuel Tank for Diesel Fire Water Pump	VOC	0.04	<0.01
56	Fuel Tank for Emergency Generator	VOC	0.04	<0.01
57	Mobile Equipment Fuel Tank	VOC	0.12	<0.01

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 HCl - hydrogen chloride
- (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:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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

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Dated November 8, 2010