

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. PSD-TX-714

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
1-1	170 MWe FBC Stack	TSP	47.1	207.0
		PM ₁₀ **	47.1	207.0
		VOC***	1.4	6.2
		NO _x	935.0	4098.0
		SO ₂ ****	1200.0	-----
		CO	101.0	441.0
		H ₂ SO ₄	9.3	20.5
		Hg	0.3	1.3
1-2	Fly Ash Silo Vent	Ni	1.0	3.1
1-2	Fly Ash Silo Vent	TSP	0.89	1.2
		PM ₁₀	0.89	1.2
1-3	Fly Ash Handling System	TSP	0.54	2.37
		PM ₁₀	0.54	2.37
1-4	Bottom Ash Bunker	TSP	0.14	0.20
		PM ₁₀	0.14	0.20
1-5	Standby Generator	TSP	0.72	0.45
		PM ₁₀	0.72	0.45
		NO _x	4.42	2.76
		SO ₂	0.33	0.21
		CO	0.53	0.33
1-6	Limestone Roller Mill 1 East 1.40	TSP		1.29
		PM ₁₀	1.29	1.40
1-7	Limestone Roller Mill 2 West 1.40	TSP		1.29

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		PM ₁₀	1.29	1.40
1-8	Tripper Deck	TSP	0.51	0.20
		PM ₁₀	0.51	0.20
1-9	Hydrated Lime Storage	TSP	0.26	0.10
	Silo Vent	PM ₁₀	0.26	0.10
1-10	Quick Lime Storage	TSP	0.26	0.033
	Silo Vent	PM ₁₀	0.26	0.033
1-11	Raw Limestone Product	TSP	0.14	0.60
	Silo East Baghouse Stack	PM ₁₀	0.14	0.14
1-12	Raw Limestone Product	TSP	0.14	0.60
	Silo West Baghouse Stack	PM ₁₀	0.14	0.14
1-13	Finish Limestone Product	TSP	0.07	0.38
	Silo East Baghouse Stack	PM ₁₀	0.07	0.07
1-14	Finish Limestone Product	TSP	0.07	0.38
	Silo West Baghouse Stack	PM ₁₀	0.07	0.07
1-15	Sand Product Silo East	TSP	0.23	1.00
	Baghouse Stack	PM ₁₀	0.23	1.00
1-16	Sand Product Silo West	TSP	0.23	1.00
	Baghouse Stack	PM ₁₀	0.23	1.00
2-1	170 Mwe FBC Stack	TSP	47.1	207.0
		PM ₁₀ **	47.1	207.0
		VOC***	1.4	6.2

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		NO _x	935.0	4098.0
		SO ₂ ****	1200.0	-----
		CO	101.0	441.0
		H ₂ SO ₄	9.3	20.5
		Hg	0.3	1.3
		Ni	1.0	3.1
2-2	Fly Ash Silo Vent	TSP	0.89	1.2
		PM ₁₀	0.89	1.2
2-3	Fly Ash Handling System	TSP	0.54	2.37
		PM ₁₀	0.54	2.37
2-4	Bottom Ash Bunker	TSP	0.14	0.20
		PM ₁₀	0.14	0.20
2-5	Standby Generator	TSP	0.72	0.45
		PM ₁₀	0.72	0.45
		NO _x	4.42	2.76
		SO ₂	0.33	0.21
		CO	0.53	0.33
2-6	Limestone Roller Mill 1 East 1.40	TSP		1.29
		PM ₁₀	1.29	1.40
2-7	Limestone Roller Mill 2 West 1.40	TSP		1.29
		PM ₁₀	1.29	1.40
2-8	Tripper Deck	TSP	0.51	0.20
		PM ₁₀	0.51	0.20

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
2-9	Raw Limestone Product Silo East Baghouse Stack	TSP	0.14	0.60
		PM ₁₀	0.14	0.14
2-10	Raw Limestone Product Silo West Baghouse Stack	TSP	0.14	0.60
		PM ₁₀	0.14	0.14
2-11	Finish Limestone Product Silo East Baghouse Stack	TSP	0.07	0.38
		PM ₁₀	0.07	0.07
2-12	Finish Limestone Product Silo West Baghouse Stack	TSP	0.07	0.38
		PM ₁₀	0.07	0.07
2-13	Sand Product Silo East Baghouse Stack	TSP	0.23	1.00
		PM ₁₀	0.23	1.00
2-14	Sand Product Silo West Baghouse Stack	TSP	0.23	1.00
		PM ₁₀	0.23	1.00
C-1	Lignite Transfer Tower 1	TSP	0.51	0.20
		PM ₁₀	0.51	0.20
C-2	Lignite Transfer to Storage	TSP		0.30
		PM ₁₀	0.30	0.12
C-3	Lignite Stackout Chute	TSP	3.75	1.50
		PM ₁₀	3.75	1.50
C-4	Lignite Reclaimer	TSP	4.88	1.95
		PM ₁₀	4.88	1.95

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			<u>lb/hr</u>	<u>TPY</u>
C-5	Lignite Reclaimer to Conveyor	TSP	0.30	0.12
		PM ₁₀	0.30	0.12
C-6	Lignite Stackout Chute	TSP	3.75	1.50
		PM ₁₀	3.75	1.50
C-7	Lignite Transfer Point	TSP	0.30	0.12
		PM ₁₀	0.30	0.12
C-8	Lignite Crusher Building	TSP	0.51	0.20
		PM ₁₀	0.51	0.20
L-1	Limestone Unloading	TSP	0.51	0.28
		PM ₁₀	0.51	0.28
L-2	Limestone Silo Vent	TSP	0.26	0.03
		PM ₁₀	0.26	0.03
L-3	Railcar Limestone Unloading 7.35	TSP		
		PM ₁₀		0.29
L-4	Emergency Limestone Stockpile 0.22	TSP		5.64
		PM ₁₀	5.64	0.22

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

(2) Specific point source name. For fugitive sources use area name or

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

fugitive source name.

- (3) PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 H₂SO₄ - sulfuric acid mist
 Hg - total mercury emissions
 Ni - total nickel emissions
 TSP - total suspended particulate

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- * For Emission Point Nos. (EPNs) 1-1, 1-2, 1-13, 1-14, 2-1, 2-2, 2-11, and 2-12, emission rates are based on and the facilities are limited by the following maximum operating schedule:

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

All other emission points are operated on an as needed basis, but not to exceed their annual emissions limits.

- ** PM₁₀ emission rate is for front-half of sampling train only for EPNs 1-1 and 2-1.

*** Hourly VOC emissions from the fluidized bed combustor may vary by two orders of magnitude.

- **** Hourly SO₂ limits are based on a rolling three-hour average. EPNs 1-1 and 2-1 are limited to a combined maximum SO₂ emission rate of 7,922 tons per year.

Dated_____