

## 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 <sub>10</sub> **	47.1	207.0
		VOC***	1.4	6.2
		NO <sub>x</sub>	935.0	4098.0
		SO <sub>2</sub>	904.0	3961.0
		CO	101.0	441.0
		H <sub>2</sub> SO <sub>4</sub>	9.3	20.5
		Hg	0.3	1.3
		Ni	1.0	3.1
1-2	Fly Ash Silo Vent	TSP	0.21	0.23
		PM <sub>10</sub>	0.21	0.23
1-3	Fly Ash Handling System	TSP	0.54	2.37
		PM <sub>10</sub>	0.54	2.37
1-4	Bottom Ash Bunker	TSP	0.14	0.20
		PM <sub>10</sub>	0.14	0.20
1-5	Standby Generator	TSP	0.72	0.45
		PM <sub>10</sub>	0.72	0.45
		NO <sub>x</sub>	4.42	2.76
		SO <sub>2</sub>	0.33	0.21
		CO	0.53	0.33
1-6	Limestone Roller Mill 1 East 1.40	TSP		1.29
		PM <sub>10</sub>	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 <sub>10</sub>	1.29	1.40
1-8	Tripper Deck	TSP	0.51	0.20
		PM <sub>10</sub>	0.51	0.20
1-9	Hydrated Lime Storage	TSP	0.26	0.10
	Silo Vent	PM <sub>10</sub>	0.26	0.10
1-10	Quick Lime Storage	TSP	0.26	0.033
	Silo Vent	PM <sub>10</sub>	0.26	0.033
1-11	Raw Limestone Product	TSP	0.14	0.60
	Silo East Baghouse Stack	PM <sub>10</sub>	0.14	0.14
	0.60			
1-12	Raw Limestone Product	TSP	0.14	0.60
	Silo West Baghouse Stack	PM <sub>10</sub>	0.14	0.14
	0.60			
1-13	Finish Limestone Product	TSP	0.07	0.38
	Silo East Baghouse Stack	PM <sub>10</sub>	0.07	0.07
	0.38			
1-14	Finish Limestone Product	TSP	0.07	0.38
	Silo West Baghouse Stack	PM <sub>10</sub>	0.07	0.07
	0.38			
1-15	Sand Product Silo East	TSP	0.23	1.00
	Baghouse Stack	PM <sub>10</sub>	0.23	1.00
1-16	Sand Product Silo West	TSP	0.23	1.00
	Baghouse Stack	PM <sub>10</sub>	0.23	1.00
2-1	170 Mwe FBC Stack	TSP	47.1	207.0
		PM <sub>10</sub> **	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 <sub>x</sub>	935.0	4098.0
		SO <sub>2</sub>	904.0	3961.0
		CO	101.0	441.0
		H <sub>2</sub> SO <sub>4</sub>	9.3	20.5
		Hg	0.3	1.3
		Ni	1.0	3.1
2-2	Fly Ash Silo Vent	TSP	0.21	0.23
		PM <sub>10</sub>	0.21	0.23
2-3	Fly Ash Handling System	TSP	0.54	2.37
		PM <sub>10</sub>	0.54	2.37
2-4	Bottom Ash Bunker	TSP	0.14	0.20
		PM <sub>10</sub>	0.14	0.20
2-5	Standby Generator	TSP	0.72	0.45
		PM <sub>10</sub>	0.72	0.45
		NO <sub>x</sub>	4.42	2.76
		SO <sub>2</sub>	0.33	0.21
		CO	0.53	0.33
2-6	Limestone Roller Mill 1 East 1.40	TSP		1.29
		PM <sub>10</sub>	1.29	1.40
2-7	Limestone Roller Mill 2 West 1.40	TSP		1.29
		PM <sub>10</sub>	1.29	1.40
2-8	Tripper Deck	TSP	0.51	0.20
		PM <sub>10</sub>	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 <sub>10</sub>	0.14	0.14
2-10	Raw Limestone Product Silo West Baghouse Stack	TSP	0.14	0.60
		PM <sub>10</sub>	0.14	0.14
2-11	Finish Limestone Product Silo East Baghouse Stack	TSP	0.07	0.38
		PM <sub>10</sub>	0.07	0.07
2-12	Finish Limestone Product Silo West Baghouse Stack	TSP	0.07	0.38
		PM <sub>10</sub>	0.07	0.07
2-13	Sand Product Silo East Baghouse Stack	TSP	0.23	1.00
		PM <sub>10</sub>	0.23	1.00
2-14	Sand Product Silo West Baghouse Stack	TSP	0.23	1.00
		PM <sub>10</sub>	0.23	1.00
C-1	Lignite Transfer Tower 1	TSP	0.51	0.20
		PM <sub>10</sub>	0.51	0.20
C-2	Lignite Transfer to Storage	TSP		0.30
		PM <sub>10</sub>	0.30	0.12
C-3	Lignite Stackout Chute	TSP	3.75	1.50
		PM <sub>10</sub>	3.75	1.50
C-4	Lignite Reclaimer	TSP	4.88	1.95
		PM <sub>10</sub>	4.88	1.95

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

(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 fugitive source name.

(3) PM<sub>10</sub> - particulate matter less than 10 microns

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist

Hg - total mercury emissions

Ni - total nickel emissions

TSP - total suspended particulate

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AIR CONTAMINANTS DATA

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>

\* For Emission Point Nos. 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.

\*\* PM<sub>10</sub> emission rate is for front-half of sampling train only for Emission Point Nos. 1-1 and 2-1.

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

Dated\_\_\_\_\_