EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8996/PSD-TX-454M2

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
01	Primary Crusher (Mobile)	PM	0.15	0.7
	Baghouse Stack	PM_{10}	0.15	0.7
02	Secondary Crusher	PM	0.15	0.7
	Baghouse Stack	PM_{10}	0.15	0.7
03	Raw Material Transfer Point	PM	0.07	0.3
	Baghouse Stack	PM_{10}	0.07	0.3
04	Conveyor Belt Transfer	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
05	Raw Material Storage Bins	PM	0.19	0.8
	Baghouse Stack	PM_{10}	0.19	0.8
06	Raw Material Storage Shale	PM	0.19	0.8
	Baghouse Stack	PM_{10}	0.19	0.8
07	Rotary Kiln ESP Stack	NO_x	545.0	770.0
		CO	1100.0	1301.0
		THC	117.0	444.0
	(1-hour Average)	SO_2	2600.0	
	(3-hour Average)	SO_2	2300.0	
	(24-hour Average)	SO_2	1900.0	
	(Annual Limit)	SO_2		1769.0
		TRS	14.9	18.3
	(5)	PM (filterable)	16.7	33.6
		PM_{10} (filterable)	16.7	33.6
	(6)	PM (condensible)	353.0	102.6
		PM_{10} (condensible)	353.0	102.6
		PM (total)	367.4	131.6
		PM_{10} (total)	367.4	131.6
		H_2SO_4	197.0	3.45

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
08	Rotary Kiln Feed Silo Upper Baghouse Stack	PM	0.87	3.8
		PM_{10}	0.87	3.8
09	Rotary Kiln Feed Silo Lower Baghouse Stack	PM	0.87	3.8
		PM_{10}	0.87	3.8
11	Waste Bypass Dust Baghouse Stack	PM	0.05	0.2
		PM_{10}	0.05	0.2
12	Coal Handling Baghouse Stack	PM	0.16	0.7
		PM_{10}	0.16	0.7
13	Coal Storage Bin Baghouse Stack	PM	0.07	0.3
		PM_{10}	0.07	0.3
14	Clinker Conveyor Transfer Point Baghouse Stack	PM	0.12	0.5
		PM_{10}	0.12	0.5
15	Clinker Conveyor Baghouse Stack	PM	0.18	0.8
		PM_{10}	0.18	0.8
16	Gypsum Silo Baghouse Stack	PM	0.02	0.1
		PM_{10}	0.02	0.1
17	Gypsum Discharge Baghouse Stack	PM	0.03	0.1
		PM_{10}	0.03	0.1
18	Gypsum Weigh Feeder Baghouse Stack	PM	0.03	0.1
		PM_{10}	0.03	0.1
19	Clinker Feeder No. 7 Baghouse Stack	PM	0.03	0.1
		PM_{10}	0.03	0.1
20	Clinker Feeder No. 1 Baghouse Stack	PM	0.03	0.1
		PM_{10}	0.03	0.1

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
21	Clinker Feeder No. 6	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
22	Clinker Feeder No. 4	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
23	Finish Mill System No. 1	PM	6.81	29.8
	Baghouse Stack	PM_{10}	6.81	29.8
24	Gypsum Weigh Feeder	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
25	Clinker Weigh Feeder No. 2	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
26	Clinker Weigh Feeder No. 5	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
27	Clinker Weigh Feeder No. 3	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
28	Clinker Weigh Feeder No. 8	PM	0.03	0.1
	Baghouse Stack	PM_{10}	0.03	0.1
29	Finish Mill System No. 2	PM	7.01	30.7
	Baghouse Stack	PM_{10}	7.01	30.7
30	Cement Silo No. 1 Discharge	PM	0.08	0.3
	Baghouse Stack	PM_{10}	0.08	0.3
31	Cement Silo No. 2 Discharge	PM	0.11	0.5
	Baghouse Stack	PM_{10}	0.11	0.5
32	Cement Silo No. 4 Discharge	PM	0.08	0.3
	Baghouse Stack	PM_{10}	0.08	0.3

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
33	Cement Silo No. 5 Discharge Baghouse Stack	PM	0.14	0.6
		PM_{10}	0.14	0.6
34	Cement Silo No. 7 Discharge Baghouse Stack	PM	0.08	0.3
		PM_{10}	0.08	0.3
35	Cement Silo No. 8 Discharge Baghouse Stack	PM	0.11	0.5
		PM_{10}	0.11	0.5
36	Cement Silo No. 1 Filling Baghouse Stack	PM	0.27	1.2
		PM_{10}	0.27	1.2
37	Cement Silo No. 7 Filling Baghouse Stack	PM	0.27	1.2
		PM_{10}	0.27	1.2
38	Coal Storage (4)	PM	1.11	1.7
		PM_{10}	0.52	0.8
39	Quarried Material Handling (4)	PM	3.12	1.0
		PM_{10}	1.48	0.5
40	Raw Material Storage (4)	PM	0.17	0.5
		PM_{10}	0.09	0.3
41	Cement Loadout Area (4)	PM	0.11	0.3
		PM_{10}	0.05	0.2
42	Shale Crusher Discharge Baghouse Stack	PM	0.08	0.4
		PM_{10}	0.08	0.4
43	Stacker Baghouse Stack	PM	0.08	0.4
		PM_{10}	0.08	0.4

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
44	Raw Mill Feed Bins	PM	0.08	0.4
	Baghouse Stack	PM_{10}	0.08	0.4
45	Kiln Feed System No. 1	PM	0.40	1.8
	Baghouse Stack	PM_{10}	0.40	1.8
46	Blending Silo	PM	0.13	0.6
	Baghouse Stack	PM_{10}	0.13	0.6
47	Kiln Feed System No. 2	PM	0.81	3.50
	Baghouse Stack	PM_{10}	0.81	3.50
48	Pan-Conveyor Under Clinker	PM	0.16	0.7
	Cooler Baghouse Stack	PM_{10}	0.16	0.7
49	Bypass Dust Bin	PM	0.16	0.7
	Bin Baghouse Stack	PM_{10}	0.16	0.7
50	Clinker Silo No. 1	PM	0.32	1.4
	Baghouse Stack	PM_{10}	0.32	1.4
51	Slag/Gypsum Bins and Belt	PM	0.09	0.4
	Discharge Baghouse Stack	PM_{10}	0.09	0.4
52	Clinker Silo No. 2	PM	0.18	0.8
	Baghouse Stack	PM_{10}	0.18	0.8
53	Clinker Conveyor to Existing Silo	PM	0.18	0.8
	Baghouse Stack	PM_{10}	0.18	0.8
54	Belt-Air-Slide Transfer Point 1	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
55	Belt-Air-Slide Transfer Point 2	PM	0.12	0.5

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Baghouse Stack	PM_{10}	0.12	0.5

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
56	Bulk Loading 1	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
57	Truck Loadout - 1	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
58	Truck Loadout - 2	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
59	Rail Loadout - 1	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
60	Rail Loadout - 1	PM	0.12	0.5
	Baghouse Stack	PM_{10}	0.12	0.5
61	Coal Mill Conveyor	PM	0.10	0.4
	Baghouse Stack	PM_{10}	0.10	0.4
62	Main Baghouse (Kiln No. 2)	NO_x	545.	770.0
		CO	1100.	1301.0
		THC	117.	444.0
	(1-hour Average)	SO_2	2600.0	
	(3-hour Average)	SO_2	2300.0	
	(24-hour Average)	SO_2	1900.0	
	(Annual Limit)	SO_2		1769.0
		TRS	14.9	18.3
	(5)	PM (filterable)	16.7	33.6
		PM_{10} (filterable)	16.7	33.6
	(6)	PM (condensible)	353.0	102.6
		PM_{10} (condensible)	353.0	102.6
		PM (total)	367.4	131.6
		PM_{10} (total)	367.4	131.6
		H_2SO_4	197.0	3.45
63	SKS Baghouse Stack	PM	13.4	58.7
		PM_{10}	13.4	58.7

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
64	Cement Mill Baghouse Stack	PM	1.14	5.0
		PM_{10}	1.14	5.0
65	Coal Mill Baghouse Stack	PM	0.73	3.2
		PM_{10}	0.73	3.2

(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 - 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.
NO_x - total oxides of nitrogen
CO - carbon monoxide
THC - total hydrocarbons
SO_2 - sulfur dioxide
TRS - total reduced sulfur
H_2SO_4 - sulfuric acid mist
(4) Fugitive emissions are an estimate only.
(5) The PM filterable rates are based on front-half of sampling train only.
(6) The PM condensibles are based on back-half of sampling train only.

* 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

Maximum allowable clinker production rate of 7,000 tons/day calculated on a 30-day rolling average.

Dated February 26, 2002