EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1

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**
1-2A	Quarry Belt #5 Baghouse	PM_{10}	0.26	1.13
1-2B	Quarry Belt #4 Baghouse	PM_{10}	0.26	1.13
1-2C	Quarry Belt #3 Baghouse	PM_{10}	0.26	1.13
1-2E1	Stamler Oultet Feeder (4) Belt	PM PM_{10}	0.16 0.07	0.24 0.12
1-2F	Quarry Belt #7 Baghouse	PM_{10}	0.26	1.13
1-9A	Slag Truck unloading (4)	PM PM_{10}	0.37 0.17	0.16 0.07
1-9B	Slag Stockpile (4)	PM PM_{10}	 0.03	0.07
1-10, 1-11A, and 1-11B	Slag Handling (4)	PM PM10	0.44 0.21	0.19 0.09
1-12	Slag Handling Baghouse	PM10	0.43	1.88
1-14A1,1-14A2, 1-15A1, 1-15A2, 1-16A1, and 1-16A2	No.1, 2, and 3 Slag Weigh Conveyors (4)	PM PM10	<0.01 <0.01	0.01 <0.01
1-18	Quarry Fixed Conveyor #3 Baghouse	PM10	0.27	1.20
1-19	Limestone Day Tank and Quarry Conveyor # 1 Baghouse	PM10	0.27	1.20

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
1-20 and 1-22	Limestone Belts (4)	PM	0.12	0.34
2A and 3A		PM_{10}	0.06	0.16
1-24, 1-24A, and 1-24B	New Stamler Feeder (4)	PM	0.96	1.50
		PM_{10}	0.47	0.74
1-21	Limestone Belt #2 Baghouse	PM_{10}	0.09	0.38
1-23	Limestone Belt # 3 Baghouse	PM_{10}	0.09	0.38
1-25	New Crusher & Quarry Belt #6 Baghouse	PM_{10}	0.51	2.25
2-6A and 2-6B	CKD Pugmill (4)	PM	0.05	0.08
		PM_{10} 0.03	0.04	
3-15	Clinker Reclaim Conveyor #6 Baghouse	PM_{10}	0.11	0.47
5-2A	Silo # 3 Baghouse	PM_{10}	0.81	3.54
27	Clinker Stacker and Stacking Operation. Baghouse	PM_{10}	0.13	0.56
F-CSB	Clinker Storage Bldg. (4)	PM	0.87	3.79
		PM_{10} 041	1.81	
F-MB1, F-MB1A, F-MB-2,and F-MB4	Main Bldg Fug (4)	PM	0.89	3.74
		PM10	0.42	1.78
2	No. 1 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (FH)	16.80	74.0
		PM (Total)	51.70	227.00
		VOC 9.10	39.90	
		SO_2 1131.00	4954.00	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
3	No. 1 Clinker Cooler Stack	PM (FH)	6.60	29.0
6	No. 2 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (FH)	16.80	74.00
		PM (Total)	51.70	227.00
		VOC	9.10	39.90
		SO_2	1131.00	4954.00
7	No. 2 Clinker Cooler Stack	PM (FH)	6.60	29.00
12	No. 3 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (FH)	17.10	74.70
		PM (Total)	52.00	228.00
		VOC	9.10	39.90
		SO_2	1131.00	4954.00
13	No. 3 Clinker Cooler Stack	PM (FH)	6.60	29.0
	Total SO_2 Emissions From EPNs 2, 6, and 12	SO_2	2100.0	9198.0
16	Fuel Oil Tank No. 1	VOC	0.40	1.80
17	Fuel Oil Tank No. 2	VOC	0.40	1.80
8-5	Fuel Unloading and Piping	VOC	0.20	0.90
6-1	Railcar Unloading Hopper (4)	PM	0.01	0.03
		PM_{10}	<0.01	0.01
6-2	Drop from Conveyor to (4)	PM	0.09	0.20

EMISSION SOURCES - MAXIMUM ALLOWABLE MASS EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
	Stack Conveyor	PM_{10}	0.04	0.09
6-3	Drop from Coal Stacker (4) to Stock Pile	PM	0.09	0.20
		PM_{10}	0.04	0.09
6-4A	Truck Unloading to (4) Stock Pile	PM	0.08	0.16
		PM_{10}	0.04	0.07
6-4B	Stock Pile (4)	PM	0.44	1.93
		PM_{10}	0.21	0.92
6-5A	West Transfer from (4) Stock Pile to Reclaim Hoppers	PM	0.03	0.10
		PM_{10}	<0.02	0.05
6-5B	East Transfer from (4) Stock Pile to Reclaim Hoppers	PM	0.03	0.10
		PM_{10}	<0.02	0.05
6-6A	West Drop from Reclaim (4) Hoppers to Conveyor	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
6-6B	East Drop from Reclaim (4) Hoppers to Conveyor	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
6-6C	East Drop from Hopper (4) Conveyors to Conveyor Crusher	PM	0.03	0.10
		PM_{10}	<0.02	0.05
6-6D	West Drop from Hopper (4) Conveyors to Conveyor Crusher	PM	0.03	0.10
		PM_{10}	<0.02	0.05
6-6E, 6-7, and 7-8	Coal Crusher and (4) Drops	PM	0.18	0.52
		PM_{10}	0.09	0.26

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
6-9	Drop to Day Tank (4)	PM	0.01	0.02
		PM_{10}	<0.01	0.01
6-10	Inside Building (4) Transfer Points	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
23	Railcar Unloading Baghouse	PM_{10}	0.51	2.25
32	CKD Tank 1 Baghouse	PM_{10}	0.26	1.13
33	CKD Tank 2 Baghouse	PM_{10}	0.26	1.13
4	Clinker Silos 1 & 2 Baghouse	PM_{10}	0.34	1.50
8	Clinker Silos 21 & 22 Baghouse	PM_{10}	0.34	1.50
30	Clinker Belt # 1 Baghouse	PM_{10}	0.26	1.13
28	Clinker Belt C28 Baghouse	PM_{10}	0.13	0.36
29	Clinker Belt C29 Baghouse	PM_{10}	0.17	0.75
5	Finish Mill 1 Baghouse	PM_{10}	4.93	21.60
9	Finish Mill 2 Baghouse	PM_{10}	4.93	21.60
10	Cement Silo 1 Baghouse	PM_{10}	0.95	4.14
11	Cement Silo 2 Baghouse	PM_{10}	0.95	4.14
24	Cement Loading(Rail) Baghouse	PM_{10}	0.17	0.75

EMISSION SOURCES - MAXIMUM ALLOWABLE MASS EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY**
25	Cement Loading(Truck) Baghouse	PM_{10}	0.17	0.75
35	Cement Loading(Special) Baghouse	PM_{10}	0.17	0.75
1-4A	Truck Unloading (4)	PM	0.25	0.63
		PM_{10} 0.12	0.30	
1-5A	Mill Scale Truck (4) Unloading	PM	0.01	0.03
		PM_{10}	<0.01	0.01
1-6A	Outside Hopper (4)	PM	0.23	0.58
		PM_{10} 0.11	0.28	
1-6A1, 1-6B1, and 1-6B	Rail Hopper Incline Belts 1 and 2, and Tripper Belt (4)	PM	0.27	0.48
		PM_{10}	0.14	0.23
F-RM1 and F-RM2	Raw Material Bldg (4)	PM	0.06	0.26
		PM_{10}	0.03	0.13
1-8A	Gypsum Truck Unloading (4)	PM	1.07	4.70
		PM_{10} 0.51	2.24	
2-7A, 2-7B, and 2-7C	Cement Kiln Dust Handling and Disposal (4)	PM	2.10	9.19
		PM10	1.00	4.37
3-4D1	Clinker Elevator 1 (4)	PM	0.73	3.18
		PM_{10} 0.35	1.51	
3-4E1	Clinker Elevator 2 (4)	PM	0.73	3.18
		PM_{10} 0.35	1.51	
1-6C	Gypsum Silo 1 Conveyor (4)	PM	0.87	3.82
		PM_{10} 0.42	1.82	

1-6D	Gypsum Silo 2 Conveyor (4)	PM			0.87	3.82
		PM_{10}		0.42	1.82	
1-4B	Sand Stockpile (4)	PM				1.20
		PM_{10}			0.57	
1-5B	Mill Scale Stockpile (4)	PM				0.26
		PM_{10}			0.13	
1-8B	Gypsum Stockpile (4)	PM				1.34
		PM_{10}			0.64	
3-10	Outdoor Clinker (4)	PM				0.04
	Stockpile	PM_{10}				0.02
3-10A	Outdoor Clinker (4)	PM		1.07	4.71	
	Unloading	PM10		0.51	2.24	

(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(FH) - PM, front-half only
PM(Total) - PM, front- and back-half emissions
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
CO - carbon monoxide
(4) Fugitive emissions are an estimate only

* Emission rates are based on and the facilities are limited by the following maximum operating schedule, maximum fuel feed rate, and raw material throughput:

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

Facility/Operation	Max Hourly Throughput (Tons/Hour)	Max Annual Throughput (Tons/Year)
Stamler Feeder/FIN 1-24	800	2,500,000
Outdoor Storage Hopper/FIN 1-6	200	1,752,000
Coal Crusher/Hammer Mill	150	873,600
Clinker Coolers 1, 2, &3	45 (each)	394,200(each)
CKD Pugmill	50	150,000

Dated_____