EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 37177/PSD-TX-893

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
F01	Shiftable Quarry Belt Drop Point	PM	0.29	0.86
		PM_{10}	0.29	0.86
F02	Quarry Belt Drop Point (Future)	PM	0.29	0.86
		PM_{10}	0.29	0.86
F03	Quarry Conveyor Belt to Limestone Storage Drop Point	PM	0.29	0.86
		PM_{10}	0.29	0.86
F04	Mobile Crusher	PM	0.65	1.90
		PM_{10}	0.65	1.90
F05	Raw Material Hopper Baghouse Stack	PM	0.18	0.80
		PM_{10}	0.18	0.80
F06	Raw Material Storage Bins Baghouse Stack No. 1	PM	0.68	2.96
		PM_{10}	0.68	2.96
F07	Raw Material Storage Bins Baghouse Stack No. 2	PM	0.68	2.96
		PM_{10}	0.68	2.96
F08	Raw Material Feed Bin Baghouse Stack	PM	0.25	1.11
		PM_{10}	0.25	1.11
F09	Raw Material Conveyor Transfer Baghouse Stack	PM	0.39	1.72
		PM_{10}	0.39	1.72

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	Emission Rates * TPY
F10	Main Kiln/Scrubber Stack	PM (5)	28.00	123.00
		PM_{10} (5)	28.00	123.00
		PM (6)	435.00	527.00
		PM_{10} (6)	435.00	527.00
		NO_x	1085.00	1585.00
		SO_2	2840.00	1577.00
		CO	2209.00	3225.00
		VOC	686.00	1008.00
		H_2SO_4	190.00	187.00
F11	Blending Silo Dedusting Baghouse Stack	PM	0.22	0.95
		PM_{10}	0.22	0.95
F12	Feed Bin Baghouse Stack	PM	0.20	0.86
		PM_{10}	0.20	0.86
F13	Preheater Feed	PM	0.20	0.89
		PM_{10}	0.20	0.89
F14	Blending Silo Main Baghouse Stack	PM	0.06	0.28
		PM_{10}	0.06	0.28
F15	Clinker Conveyor No. 1 Baghouse Stack	PM	0.51	2.22
		PM_{10}	0.51	2.22
F16	Clinker Conveyor No. 2 Baghouse Stack	PM	2.15	9.42
		PM_{10}	2.15	9.42
F17	Clinker Conveyor and Bin Baghouse Stack	PM	0.67	2.91
		PM_{10}	0.67	2.91
F18	Bypass Dust Bin	PM	0.22	0.96
		PM_{10}	0.22	0.96
F19	Raw Mill Dust Bin	PM	0.22	0.96

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	0.22	0.96
F20	Baghouse in Scrubber Area	PM	0.09	0.41
		PM_{10}	0.09	0.41
F21	Raw Coal/Coke Bin Baghouse Stack	PM	0.08	0.36
		PM_{10}	0.08	0.36
F22	Crushed Coal/Coke Bin Baghouse Stack	PM	0.01	0.03
		PM_{10}	0.01	0.03
F23	Material Handling System into Finish Mill Baghouse Stack	PM	0.92	4.05
		PM_{10}	0.92	4.05
F24	Clinker Loadout Baghouse	PM	0.18	0.80
		PM_{10}	0.18	0.80
F25	Finish Mill System Vent Baghouse Stack	PM	9.83	43.10
		PM_{10}	9.83	43.10
F26	Cement Silo Baghouse Stack No. 1	PM	0.10	0.46
		PM_{10}	0.10	0.46
F27	Cement Silo Baghouse Stack No. 2	PM	0.34	1.50
		PM_{10}	0.34	1.50
F28	Cement Silo Baghouse Stack No. 3	PM	0.11	0.46
		PM_{10}	0.11	0.46
F29	Cement Loadout No. 1 Baghouse Stack	PM	0.33	1.44
		PM_{10}	0.33	1.44
F30	Cement Loadout No. 2 Baghouse Stack	PM	0.33	1.44
		PM_{10}	0.33	1.44
F31	Cement Silo Feed Bin No. 1	PM	0.14	0.62

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Baghouse Stack	PM_{10}	0.14	0.62
F32	Cement Silo Feed Bin No. 2	PM	0.14	0.62
	Baghouse Stack	PM_{10}	0.14	0.62
F33	Cement Silo Feed Bin No. 3	PM	0.14	0.62
	Baghouse Stack	PM_{10}	0.14	0.62
F34	Cement Silo Feed Bin No. 4	PM	0.14	0.62
	Baghouse Stack	PM_{10}	0.14	0.62
QFUG01	Front End Loader Drop	PM	0.57	1.64
	Point to Crusher (4)	PM_{10}	0.27	0.78
QFUG02	Crusher Drop Point to	PM	0.57	1.64
	Conveyor Belt (4)	PM_{10}	0.27	0.78
MT01	Limestone Storage Building	PM	0.10	0.42
	Vent (4)	PM_{10}	0.05	0.21
MT02	Sand/Mill Scale Drop Point	PM	0.19	0.82
	to Hopper (4)	PM_{10}	0.09	0.39
MT03	Additive to Drop Point to	PM	0.53	2.31
	Hopper (4)	PM_{10}	0.25	1.09
MT04	Clinker Truck Loading (4)	PM	0.53	2.30
		PM_{10}	0.02	0.07
MT05	Coal/Coke Drop Point to	PM	0.47	2.05
	Hopper (4)	PM_{10}	0.22	0.97
MT06	Coal/Coke Drop Point to	PM	0.47	2.05
	Stacker (4)	PM_{10}	0.22	0.97
MT07	Coal/Coke Drop Point to	PM	0.47	2.05

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Pile (4)	PM_{10}	0.22	0.97
MT08	Coal/Coke Drop Point to Hopper (4)	PM	0.19	0.82
		PM_{10}	0.09	0.39
MT09	Coal/Coke Drop Feeder to Belt (4)	PM	0.19	0.82
		PM_{10}	0.09	0.39
MT10	Coal/Coke Drop Belt to Belt (4)	PM	0.19	0.82
		PM_{10}	0.09	0.39
MT11	Coal/Coke Receiving Drop to Hopper (4)	PM	0.07	0.31
		PM_{10}	0.04	0.15
CB01	Quarry Conveyor Belt to Limestone Storage (4)	PM	0.01	0.02
		PM_{10}	0.01	0.01
CB02	Quarry Belt (Shiftable) (4)	PM	0.13	0.39
		PM_{10}	0.07	0.19
CB03	Quarry Belt (Future) (4)	PM	0.19	0.55
		PM_{10}	0.09	0.26
CB04	Limestone Conveyor Belt to Feed Bins (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB05	Sand/Mill Scale Conveyor Belt to Feed Bins (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB06	Raw Mix Conveyor Belt to Grinding System (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB07	Clinker Pan Conveyor to Storage Silo (4)	PM	0.02	0.07
		PM_{10}	0.01	0.04
CB08	Clinker Conveyor Belt to	PM	0.03	0.13

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
	Finish Grinding Area (4)	PM_{10}	0.02	0.07
CB09	Additive Conveyor Belt to Finish Grinding Area (4)	PM	0.02	0.06
		PM_{10}	0.01	0.03
CB10	Coal/Coke Unloading Conveyor Belt (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB11	Coal/Coke Conveyor Belt to Stacker (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB12	Coal/Coke Stacker to Pile (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB13	Coal/Coke Conveyor Belt to Coal Grinding System (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
CB14	Coal/Coke Conveyor Belt to Mill Feed Bin (4)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
PILE C	Coal/Coke Piles (4)	PM	0.55	2.41
		PM_{10}	0.28	1.21
PILE A	Additive Pile (4)	PM	0.16	0.70
		PM_{10}	0.08	0.35
PILE M	Mill Scale Pile (4)	PM	0.03	0.11
		PM_{10}	0.02	0.06
PILE S	Sand Pile (4)	PM	0.03	0.11
		PM_{10}	0.02	0.06
PILE CL	Clinker Pile (4)	PM	0.42	1.80
		PM_{10}	0.21	0.90

(1) Emission point identification - either specific equipment designation or emission point number

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from a plot plan.

(2) Specific point source names. 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 particulate matter greater than 10 microns is emitted.
NO_x - nitrogen oxides
SO_2 - sulfur dioxide
CO - carbon monoxide
VOC - volatile organic compounds
H_2SO_4 - sulfuric acid

(4) Fugitive emissions are an estimate only.

(5) Method 5, front-half only for federal compliance determination. Adjustment may need to be made because of the scrubber. At present, no portland cement kiln that is controlled by a scrubber has been tested. All federal performance standards have been based on a dry collection system.

(6) Method 5, front and back-half for state compliance determination.

* Annual emissions rates are based on 8,760 hours per year.

Dated July 12, 2000