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, sources, and related activities. 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	
			lbs/hour	TPY (4)
1-2A	Quarry Belt No. 5 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2B	Quarry Belt No. 4 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2C	Quarry Belt No. 3 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2E1	Stamler Outlet Feeder Belt (5)	PM	0.16	0.24
		PM_{10}	0.07	0.12
		$PM_{2.5}$	0.01	0.02
1-2F	Quarry Belt No. 7 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.26	1.13
1-9A	Slag /Mill Scale Truck Unloading (5)	PM	0.37	0.16
		PM_{10}	0.17	0.07
1-9B	Slag/Mill Scale Stockpile (5)	PM	--	0.07
		PM_{10}	---	0.03
1-10, 1-11A, and 1-11B	Slag/Mill Scale Handling (5)	PM	0.44	0.19
		PM_{10}	0.21	0.09
1-12	Slag/Mill Scale Handling Baghouse Stack	PM	0.43	1.88

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		PM_{10}	0.43	1.88
1-14A1, 1-14A2, 1-15A1, 1-15A2, 1-16A1, and 1-16A2	Nos. 1, 2, and 3 Slag/Mill Sclae Weigh Conveyors (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
1-18	Quarry Fixed Conveyor No. 3 Baghouse Stack	PM	0.27	1.20
		PM_{10}	0.27	1.20
1-19	Limestone Day Tank and Quarry Conveyor No. 1 Baghouse Stack	PM	0.27	1.20
		PM_{10}	0.27	1.20
1-20 and 1-22	Limestone Belts 2A and 3A (5)	PM	0.12	0.34
		PM_{10}	0.06	0.16
1-24, 1-24A, and 1-24B	New Stamler Feeder (5)	PM	0.96	1.50
		PM_{10}	0.47	0.74
		$PM_{2.5}$	0.04	0.06
1-21	Limestone Belt No. 2 Baghouse Stack	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-23	Limestone Belt No. 3 Baghouse Stack	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-25	New Crusher and Quarry Belt No. 6 Baghouse Stack	PM	0.51	2.25
		PM_{10}	0.51	2.25
2-6A and 2-6B	CKD Pugmill (5)	PM	0.05	0.08
		PM_{10}	0.03	0.04
3-15	Clinker Reclaim Conveyor No. 6 Baghouse Stack	PM	0.11	0.47
		PM_{10}	0.11	0.47
5-2A	Silo No. 3 Baghouse Stack	PM	0.81	3.54
		PM_{10}	0.81	3.54

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27	Clinker Stacker and Stacking Operation Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56
F-CSB	Clinker Storage Building (5)	PM	0.87	3.79
		PM_{10}	0.41	1.81
F-MB1, F-MB1A, F-MB2, and F-MB4	Main Building Fugitives (5)	PM	0.89	3.74
		PM_{10}	0.42	1.78
2	No. 1 Cement Kiln Stack	VOC	9.10	39.90
		NO_X	725.00	3176.00
		SO_2	1131.00	4954.00
		PM (FH)	16.80	74.00
		PM (Total)	51.70	227.00
		CO	100.00	438.00
3	No. 1 Clinker Cooler Stack	PM (FH)	6.60	29.00
6	No. 2 Cement Kiln Stack	VOC	9.10	39.90
		NO_X	725.00	3176.00
		SO_2	1131.00	4954.00
		PM (FH)	16.80	74.00
		PM (Total)	51.70	227.00
		CO	100.00	438.00
7	No. 2 Clinker Cooler Stack	PM (FH)	6.60	29.00
12	No. 3 Cement Kiln Stack	VOC	9.10	39.90
		NO_X	725.00	3176.00
		SO_2	1131.00	4954.00
		PM (FH)	17.10	74.70

Emission Sources - Maximum Allowable Emission Rates

		PM (Total)	52.00	228.00
		CO	100.00	438.00
13	No. 3 Clinker Cooler Stack	PM (FH)	6.60	29.00
	Total SO_2 Emissions From EPNs 2, 6, and 12	SO_2	2100.00	9198.00
16	Fuel Oil Tank No. 1	VOC	0.40	1.80
8-5	Fuel Unloading and Piping (5)	VOC	0.20	0.90
6-1	Railcar Unloading Hopper (5)	PM	0.01	0.03
		PM_{10}	0.01	0.01
6-2	Drop From Conveyor to Stack Conveyor (5)	PM	0.09	0.20
		PM_{10}	0.04	0.09
6-3	Drop From Coal Stacker to Stockpile (5)	PM	0.09	0.20
		PM_{10}	0.04	0.09
6-4A	Truck Unloading To Stockpile (5)	PM	0.08	0.16
		PM_{10}	0.04	0.07
6-4B	Solid Fuel Stockpile (5)	PM	--	1.93
		PM_{10}	--	0.92
6-5A	West Transfer From Stockpile To Reclaim Hoppers (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-5B	East Transfer From Stockpile To Reclaim Hoppers (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6A	West Drop From Reclaim Hoppers To Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
6-6B	East Drop From Reclaim Hoppers To Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01

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6-6C	East Drop From Hopper Conveyors To Conveyor Crusher (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6D	West Drop From Hopper Conveyors To Conveyor Crusher (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6E, 6-7, and 6-8	Coal Crusher and Drops (5)	PM	0.18	0.52
		PM_{10}	0.09	0.26
6-9	Drop To Day Tank (5)	PM	0.01	0.02
		PM_{10}	<0.01	0.01
6-10	Inside Building Transfer Point (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
23	Railcar Unloading Baghouse Stack	PM	0.51	2.25
		PM_{10}	0.51	2.25
32	CKD Tank 1 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
33	CKD Tank 2 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
4	Clinker Elevator 1, Silos 1 and 2 Baghouse Stack	PM	0.69	3.00
		PM_{10}	0.69	3.00
8	Clinker Elevator 2, Silos 21 and 22 Baghouse Stack	PM	0.69	3.00
		PM_{10}	0.69	3.00
30	Clinker Belt No. 1 Baghouse Stack	PM	0.26	1.13
		PM_{10}	0.26	1.13
28	Clinker Belt No. 2 C28 Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56

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29	Clinker Belt No. 2 C29 Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
5	Finish Mill 1 Baghouse Stack	PM	4.93	21.60
		PM_{10}	4.93	21.60
9	Finish Mill 2 Baghouse Stack	PM	4.93	21.60
		PM_{10}	4.93	21.60
10	Cement Silo 1 Baghouse Stack	PM	0.95	4.15
		PM_{10}	0.95	4.15
11	Cement Silo 2 Baghouse Stack	PM	0.95	4.15
		PM_{10}	0.95	4.15
24	Cement Loading (Rail) Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
25	Cement Loading (Truck) Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
35	Cement Loading (Special) Baghouse Stack	PM	0.17	0.75
		PM_{10}	0.17	0.75
1-4A	Sand Truck Unloading (5)	PM	0.25	0.63
		PM_{10}	0.12	0.30
1-5A	Mill Scale Truck Unloading (5)	PM	0.01	0.03
		PM_{10}	0.01	0.01
1-6A	Outside Hopper (5)	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 (5)	PM	0.28	0.71
		PM_{10}	0.14	0.34

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F-RM1 and F-RM2	Raw Material Bldg (5)	PM	0.04	0.19
		PM_{10}	0.03	0.10
1-8A	Gypsum Truck Unloading (5)	PM	1.07	4.70
		PM_{10}	0.51	2.24
2-7A, 2-7B, and 2-7C	Cement Kiln Dust Handling and Disposal (5)	PM	2.10	9.19
		PM_{10}	1.00	4.37
3-4D1	Clinker Elevator 1 (5)	PM	0.73	3.18
		PM_{10}	0.35	1.51
3-4E1	Clinker Elevator 2 (5)	PM	0.73	3.18
		PM_{10}	0.35	1.51
1-6C	Gypsum Silo 1 Baghouse Stack	PM	0.13	0.57
		PM_{10}	0.13	0.57
1-6D	Gypsum Silo 2 Baghouse Stack	PM	0.13	0.57
		PM_{10}	0.13	0.57
1-4B	Stockpile (5)	PM	--	1.20
		PM_{10}	--	0.57
1-5B	Mill Scale Stockpile (5)	PM	--	0.26
		PM_{10}	--	0.13
1-8B	Gypsum Stockpile (5)	PM	--	1.34
		PM_{10}	--	0.64
3-10	Outdoor Clinker Stockpile (5)	PM	--	0.04
		PM_{10}	--	0.02
3-10A	Outdoor Clinker Unloading (5)	PM	0.04	0.18
		PM_{10}	0.02	0.09

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(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x	-	total oxides of nitrogen
SO_2	-	sulfur dioxide
PM	-	total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10}	-	total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$	-	particulate matter equal to or less than 2.5 microns in diameter
PM(FH)	-	PM, front-half only
PM(Total)	-	PM(Total), front- and back-half emissions
CO	-	carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: _____