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 (9)	
			lbs/hour	TPY (4)
The following emission rate limitations shall apply until the completion of the No. 3 Cement Kiln Reconstruction Project as authorized by the permit amendment dated May 25, 2012.				
1-2A	Quarry Belt No. 5 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2B	Quarry Belt No. 4 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2C	Quarry Belt No. 3 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2E1	Stamler Discharge Belt (5)	PM	0.16	0.24
		PM_{10}	0.07	0.12
		$PM_{2.5}$	0.01	0.02
1-2F	No. 7 Quarry Belt Dust Collector	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.09	0.38
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	PM	0.43	1.88
		PM_{10}	0.43	1.88

Emission Sources - Maximum Allowable Emission Rates

1-14A1, 1-14A2, 1-15A1, 1-15A2, 1-16A1, and 1-16A2	Nos. 1, 2, and 3 Slag/Mill Scale Weigh Conveyors (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
1-18	Quarry Fixed Conveyor No. 3 Baghouse	PM	0.27	1.20
		PM_{10}	0.27	1.20
1-19	Limestone Day Tank and Quarry Conveyor No. 1 Baghouse	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	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	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-23	Limestone Belt No. 3 Baghouse	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-25	New Crusher and Quarry Belt No. 6 Baghouse	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	PM	0.11	0.47
		PM_{10}	0.11	0.47
5-2A	Silo No. 3 Baghouse	PM	0.81	3.54
		PM_{10}	0.81	3.54
27	Clinker Stacker and Stacking Operations Baghouse	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

Emission Sources - Maximum Allowable Emission Rates

F-MB1, F-MB1A, F-MB2, and F-MB4	Main Bldg Fug (5)	PM	0.89	3.74
		PM_{10}	0.42	1.78
2	No. 1 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (filterable)	16.80	74.00
		PM (total)	51.70	227.00
		VOC	9.10	39.90
		SO_2	1131.00	4954.00
		NH_3	5.98 (7)	26.20
3	No. 1 Clinker Cooler Stack	PM (filterable)	6.60	29.00
6	No. 2 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (filterable)	16.80	74.00
		PM (total)	51.70	227.00
		VOC	9.10	39.90
		SO_2	1131.00	4954.00
		NH_3	6.34 (7)	27.76
7	No. 2 Clinker Cooler Stack	PM (filterable)	6.60	29.00
12	No. 3 Cement Kiln	NO_x	725.00	3176.00
		CO	100.00	438.00
		PM (filterable)	17.10	74.70
		PM (total)	52.00	228.00
		VOC	9.10	39.90
		SO_2	1131.00	4954.00
		NH_3	6.03 (7)	26.40
13	No. 3 Clinker Cooler Stack	PM (filterable)	6.60	29.00
2, 6, and 12	Total SO_2 Emissions From EPNs 2, 6, and 12	SO_2	2100.00	9198.00

Emission Sources - Maximum Allowable Emission Rates

16	Fuel Oil Tank No. 1	VOC	0.40	1.80
8-5	Fuel Unloading and Piping	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 Stock Pile (5)	PM	0.09	0.20
		PM_{10}	0.04	0.09
6-4A	Truck Unloading to Stock Pile (5)	PM	0.08	0.16
		PM_{10}	0.04	0.07
6-4B	Solid Fuel Stock Pile (5)	PM	--	1.93
		PM_{10}	--	0.92
6-5A	East Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-5B	West Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6A	East Drop from Reclaim Hopper to Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
6-6B	West Drop from Reclaim Hopper to Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
6-6C	East Drop from Hopper Conveyor to Conveyor Crusher (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6D	West Drop from Hopper Conveyor 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

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	0.01
6-10	Inside Building Transfer Points (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
23	Railcar Unloading Baghouse	PM	0.51	2.25
		PM_{10}	0.51	2.25
32	CKD Tank 1 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
33	CKD Tank 2 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
4	Clinker Elevator 1, Silos 1 and 2 Baghouse	PM	0.69	3.00
		PM_{10}	0.69	3.00
8	Clinker Elevator 2, Silos 21 and 22 Baghouse	PM	0.69	3.00
		PM_{10}	0.69	3.00
30	Clinker Belt No. 1 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
28	Clinker Belt No. 2 C28 Baghouse	PM	0.13	0.56
		PM_{10}	0.13	0.56
29	Clinker Belt No. 2 C29 Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
5	Finish Mill 1 Baghouse	PM	4.93	21.60
		PM_{10}	4.93	21.60
9	Finish Mill 2 Baghouse	PM	4.93	21.60
		PM_{10}	4.93	21.60
10	Cement Silo 1 Baghouse	PM	0.95	4.15
		PM_{10}	0.95	4.15
11	Cement Silo 2 Baghouse	PM	0.95	4.15
		PM_{10}	0.95	4.15

Emission Sources - Maximum Allowable Emission Rates

24	Cement Loading (Rail) Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
25	Cement Loading (Truck) Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
35	Cement Loading (Special) Baghouse	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
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	PM	0.13	0.57
		PM_{10}	0.13	0.57
1-6D	Gypsum Silo 2 Baghouse	PM	0.13	0.57

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.13	0.57
1-4B	Sand 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
The following emission rate limitations shall apply after the completion of the No. 3 Cement Kiln Reconstruction Project as authorized by the permit amendment dated May 25, 2012.				
1-2A	Quarry Belt No. 5 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2B	Quarry Belt No. 4 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2C	Quarry Belt No. 3 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
1-2E1	Stamler Discharge Belt (5)	PM	0.16	0.24
		PM_{10}	0.07	0.12
		$PM_{2.5}$	0.01	0.02
1-2F	No. 7 Quarry Belt Dust Collector	PM	0.26	1.13
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.09	0.38
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

Emission Sources - Maximum Allowable Emission Rates

		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	PM	0.43	1.88
		PM_{10}	0.43	1.88
1-16A1 and 1-16A2	Slag/Mill Scale Silo 3 Weigh Conveyor (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
1-18	Quarry Fixed Conveyor No. 3 Baghouse	PM	0.27	1.20
		PM_{10}	0.27	1.20
1-19	Limestone Day Tank and Quarry Conveyor No. 1 Baghouse	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	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	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-23	Limestone Belt No. 3 Baghouse	PM	0.09	0.38
		PM_{10}	0.09	0.38
1-25	New Crusher and Quarry Belt No. 6 Baghouse	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	PM	0.17	0.74
		PM_{10}	0.17	0.74

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.17	0.74
5-2A	Silo No. 3 Baghouse	PM	0.81	3.54
		PM_{10}	0.81	3.54
27	Clinker Stacker and Stacking Operations Baghouse	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, and F-MB4	Main Bldg Fug (5)	PM	0.16	0.56
		PM_{10}	0.07	0.27
16	Fuel Oil Tank No. 1	VOC	0.40	1.80
8-5	Fuel Unloading and Piping	VOC	0.20	0.90
6-1	Railcar Unloading Hopper (5)	PM	0.02	0.03
		PM_{10}	0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
6-2	Drop from Conveyor to Stack Conveyor (5)	PM	0.18	0.20
		PM_{10}	0.09	0.09
		$PM_{2.5}$	0.01	0.01
6-3	Drop from Coal Stacker to Stock Pile (5)	PM	0.18	0.20
		PM_{10}	0.09	0.09
		$PM_{2.5}$	0.01	0.01
6-4A	Truck Unloading to Stock Pile (5)	PM	0.08	0.16
		PM_{10}	0.04	0.07
6-4B	Solid Fuel Stock Pile (5)	PM	--	1.93
		PM_{10}	--	0.92
6-5A	East Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-5B	West Transfer from Stock Pile to Reclaim Hopper (5)	PM	0.03	0.10

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.02	0.05
6-6A	East Drop from Reclaim Hopper to Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
6-6B	West Drop from Reclaim Hopper to Conveyor (5)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
6-6C	East Drop from Hopper Conveyor to Conveyor Crusher (5)	PM	0.03	0.10
		PM_{10}	0.02	0.05
6-6D	West Drop from Hopper Conveyor 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 Points (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
23	Railcar Unloading Baghouse	PM	0.51	2.25
		PM_{10}	0.51	2.25
32	CKD Tank 1 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
33	CKD Tank 2 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13
4	Clinker Elevator 1, Silos 1 and 2 Baghouse	PM	0.69	3.00
		PM_{10}	0.69	3.00
8	Clinker Elevator 2, Silos 21 and 22 Baghouse	PM	0.69	3.00
		PM_{10}	0.69	3.00
30	Clinker Belt No. 1 Baghouse	PM	0.26	1.13
		PM_{10}	0.26	1.13

Emission Sources - Maximum Allowable Emission Rates

28	Clinker Belt No. 2 C28 Baghouse	PM	0.13	0.56
		PM_{10}	0.13	0.56
29	Clinker Belt No. 2 C29 Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
5	Finish Mill 1 Baghouse	PM	4.93	21.60
		PM_{10}	4.93	21.60
9	Finish Mill 2 Baghouse	PM	4.93	21.60
		PM_{10}	4.93	21.60
10	Cement Silo 1 Baghouse	PM	0.95	4.15
		PM_{10}	0.95	4.15
11	Cement Silo 2 Baghouse	PM	0.95	4.15
		PM_{10}	0.95	4.15
24	Cement Loading (Rail) Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
25	Cement Loading (Truck) Baghouse	PM	0.17	0.75
		PM_{10}	0.17	0.75
35	Cement Loading (Special) Baghouse	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

Emission Sources - Maximum Allowable Emission Rates

F-RM1 and F-RM2	Raw Material Bldg (5)	PM	0.07	0.19
		PM_{10}	0.04	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	PM	0.13	0.57
		PM_{10}	0.13	0.57
1-6D	Gypsum Silo 2 Baghouse	PM	0.13	0.57
		PM_{10}	0.13	0.57
1-4B	Sand 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

Emission Sources - Maximum Allowable Emission Rates

331.SK410	Reconstructed No. 3 Cement Kiln, Dryer/Crusher, Precalciner, Preheater Cyclone, and Precalciner Cyclone	PM (filterable)	1.30	4.75
		PM (total)	44.53	162.54
		PM_{10} (filterable)	1.09	3.99
		PM_{10} (total)	44.32	161.78
		$PM_{2.5}$ (filterable)	0.59	2.14
		$PM_{2.5}$ (total)	43.82	159.93
		SO_2	1650.00	189.80
		NO_x	500.00	711.75
		CO	300.00	581.26
		VOC	26.87 (8)	65.48
		H_2SO_4	10.47	38.22
		NH_3	17.69 (7)	77.48
		Pb	0.01	0.04
		Hg	<0.01 (6)	<0.01
461.SK405	Solid Fuel Mill, Clinker Cooler, Hot Gas Generator, and Regenerative Thermal Oxidizer	PM	1.99	8.72
		PM_{10}	1.99	8.72
		$PM_{2.5}$	0.80	3.49
		SO_2	0.01	0.04
		NO_x	1.02	4.47
		CO	1.24	5.42
		VOC	0.29	1.27
461.BF560A	Pulverized Fuel Bin A	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.02	0.07

Emission Sources - Maximum Allowable Emission Rates

461.BF560B	Pulverized Fuel Bin B	PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.02	0.07
6-15	Solid Fuel Transfer Solid Fuel Day Tank Conveyors to BC050	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
461.BF020	Solid Fuel Transfer BC050 to BC080	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.21	0.94
461.BF040	Solid Fuel Transfer BC080 to Solid Fuel Mill	PM	0.43	1.88
		PM_{10}	0.43	1.88
		$PM_{2.5}$	0.21	0.94
F-MB2	Clinker Cooler Belt	PM	0.70	2.55
		PM_{10}	0.33	1.21
		$PM_{2.5}$	0.05	0.18
EG1.SK1	Emergency Diesel Generator	PM	0.21	0.05
		PM_{10}	0.21	0.05
		$PM_{2.5}$	0.21	0.05
		SO_2	0.82	0.20
		NO_x	4.17	1.04
		CO	3.65	0.91
		VOC	0.13	0.03
3-19	Clinker Transport Loading (outside pile)	PM	0.06	<0.01
		PM_{10}	0.03	<0.01
		$PM_{2.5}$	0.01	<0.01
F-RM4	Clinker Transfer to Inside Pile (RM Building)	PM	0.01	<0.01
		PM_{10}	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
1-29	Limestone Bin Dust Collector	PM	0.13	0.57
		PM_{10}	0.13	0.57
		$PM_{2.5}$	0.13	0.57
1-30	Limestone Transfer onto Clinker Belt 1	PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
1-31	Limestone Transfer onto Clinker Belt 2	PM	0.11	0.48
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.11	0.48
6-11	Reserve Solid Fuel Transfer Point (at Main Stockpile)	PM	0.07	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.01	<0.01
6-13	Reserve Solid Fuel Reclamation Transfer Point (at Reserve Stockpile)	PM	0.07	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.01	<0.01
6-14	Reserve Solid Fuel Reclamation Transfer Point (at Main Stockpile)	PM	0.07	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.01	<0.01
6-12	Reserve Solid Fuel Stockpile	PM	0.19	0.83
		PM_{10}	0.10	0.42
		$PM_{2.5}$	0.02	0.07
6-4C	Solid Fuel Unloading - Drop from Front End Loader to Stockpile	PM	0.28	0.49
		PM_{10}	0.13	0.23
		$PM_{2.5}$	0.02	0.03
7-5	Bulk Tanks (when storing SNCR reagent)	VOC (urea)	0.59	0.02
		NH_3	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

7-4	SNCR Unloading Piping	NH_3	0.02	0.08
7-6	SNCR Kiln Transfer Piping	NH_3	0.10	0.42
6-4D	Stacker Pile Movement	PM	0.14	0.60
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.02	0.09
Planned Maintenance Activities (10)				
7-5	Bulk Tanks and Day Tank (when storing SNCR reagent)	VOC (urea)	0.16	<0.01
		NH_3	0.12	<0.01
7-1-1 and 7-1-3	Bulk Tanks (when storing SNCR reagent)	VOC (urea)	<0.01	<0.01
		NH_3	0.16	0.02
7-7	Day Tank	NH_3	0.01	<0.01
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities	NO_x	<0.01	<0.01
		CO	0.02	<0.01
		SO_2	<0.01	<0.01
		PM	0.54	0.09
		PM_{10}	0.25	0.04
		$PM_{2.5}$	0.04	0.01
		VOC	0.18	<0.01
MSSFUG2	Non-ILE Planned Maintenance Activities	PM	0.90	0.39
		PM_{10}	0.90	0.39
		$PM_{2.5}$	0.46	0.20

(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) 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

Emission Sources - Maximum Allowable Emission Rates

$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
NH_3 - ammonia
H_2SO_4 - sulfuric acid
Pb - lead
Hg - mercury

(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.

(6) The hourly Hg emission rates apply based on the 30-day rolling average hourly emission rate.

(7) The hourly NH_3 emission rate is applicable as a 24-hour rolling average.

(8) The hourly VOC emission rates apply based on the 12-month rolling average hourly emission rate.

(9) Planned maintenance, startup, and shutdown (MSS) emissions are included.

(10) The planned MSS activity emission rate limitations shall apply both until and after the completion of the No. 3 Cement Kiln Reconstruction Project as authorized by the permit amendment dated May 25, 2012.

Date: February 12, 2014